

References used:

LAST UPDATE: 20-May-25

- 16-May **2025 Jetour Doha Meeting (Doha, QAT)**
- 100m mWA, mInv, wF, wWA, wInv Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205060102070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002050601020B0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002050601010B0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060101070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060101090101FFFFFFFFFFFF6D.pdf>
- 200m mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205060102130101FFFFFFFFFFFF6D.pdf>
- 400m mWA, mInv, wF, wInv Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050601020A0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060102080101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002050601010A0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060101050101FFFFFFFFFFFF6D.pdf>
- 110mH mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205060102100101FFFFFFFFFFFF6D.pdf>
- 400mH mF, mWA, mInv Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205060102140101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060102070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205060102060101FFFFFFFFFFFF6D.pdf>
- 3-May **2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)**
- 100m mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050501030B0101FFFFFFFFFFFF6D.pdf>
- 200m wF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050501020A0101FFFFFFFFFFFF6D.pdf>
- 400m mF, mSS, wF, wSS Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050501030A0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205050102040101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205050102060101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205050102040101FFFFFFFFFFFF6D.pdf>
- 100mH wF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050501020B0101FFFFFFFFFFFF6D.pdf>
- 110mH mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205050103090101FFFFFFFFFFFF6D.pdf>
- 400mH mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205050103060101FFFFFFFFFFFF6D.pdf>
- 2-May **2025 Grand Slam Track Miami (Miramar, FL)**
- 100m mSS, mSH, wSS, wSH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 200m mSS, mLS, wSS, wLS Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 400m mLS, mLH, wLS, wLH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 100mH wSH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 110mH mSH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 300mH mLH, wLH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/miami/schedule-and-splits>
- 26-Apr **2025 Xiamen Diamond League (Xiamen, CHN)**
- 100m mF, mNat A&B Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050401020A0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205040102050102FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000205040102050101FFFFFFFFFFFF6D.pdf>
- 200m wF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205040101090101FFFFFFFFFFFF6D.pdf>
- 100mH wF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050401010B0101FFFFFFFFFFFF6D.pdf>
- 110mH mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000205040102090101FFFFFFFFFFFF6D.pdf>
- 300mH mF Omega Timing (2025). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002050401020C0101FFFFFFFFFFFF6D.pdf>
- 4-Apr **2025 Grand Slam Track Kingston (Kingston, JAM)**
- 100m wSS, wSH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/kingston/schedule-and-splits>
- 200m mSS, mLS, wSS Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/kingston/schedule-and-splits>
- 400m mLH, wLS, wLH Grand Slam Track (2025). Results and splits by race. Retrieved from <https://www.grandslamtrack.com/results/kingston/schedule-and-splits>

100mH wF
110mH mF
400mH mF

7-Jun **2025 European Athletics Indoor Championships (Apeldoorn, NED)**

60m mF, mSF, wF, wSF European Athletics (2025). 2025 European athletics indoor championships - results book. p. 10, 13-15, 122, 125-127. Retrieved from https://european-athletics.directus.app/assets/06a0206e-fdf9-4485-958e-5fe6daf48e9a/ATH-----_B99_v1.0.pdf

60mH mF, mSF, wF, wSF European Athletics (2025). 2025 European athletics indoor championships - results book. p. 80, 83-84, 189, 192-193. Retrieved from https://european-athletics.directus.app/assets/06a0206e-fdf9-4485-958e-5fe6daf48e9a/ATH-----_B99_v1.0.pdf

23-Feb **2025 Chinese National Grand Prix (Nanjing, CHN)**

60mH mR5 Hubei Athletics Sport Science (2025)

15-Sep **2024 Chinese National Championships (Quzhou, CHN)**

100m mF, mSF, mH, wF, wSF Shandong Athletics Sport Science (2024)

200m mF, mSF, mH, wF, wSF Shandong Athletics Sport Science (2024)

400m mF, wF Shandong Athletics Sport Science (2024)

100mH wF Shandong Athletics Sport Science (2024)

110mH mF Shandong Athletics Sport Science (2024)

400mH mF, wF Shandong Athletics Sport Science (2024)

13-Sep **2024 Memorial van damme (Brussels, BEL)**

100m mF, mINV, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204120102080101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204120102140101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002041201010E0101FFFFFFFFFFFF6D.pdf>

200m mF, wF, wINV Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204120102180101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204120101140101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204120101130101FFFFFFFFFFFF6D.pdf>

400m mF, mINV, wF, wINV Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002041201020E0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204120102070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002041201010B0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002041201010A0101FFFFFFFFFFFF6D.pdf>

100mH wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204120101160101FFFFFFFFFFFF6D.pdf>

110mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204120102090101FFFFFFFFFFFF6D.pdf>

400mH mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204120102150101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002041201011A0101FFFFFFFFFFFF6D.pdf>

5-Sep **2024 Weltklasse (Zürich, SUI)**

100m wF, wH Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204110101070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204110101040101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204110101040102FFFFFFFFFFFF6D.pdf>

200m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002041101030A0101FFFFFFFFFFFF6D.pdf>

400m mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204110103050101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204110101050101FFFFFFFFFFFF6D.pdf>

100mH wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002041101010A0101FFFFFFFFFFFF6D.pdf>

110mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204110103080101FFFFFFFFFFFF6D.pdf>

400mH mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204110103060101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204110101090101FFFFFFFFFFFF6D.pdf>

30-Aug **2024 Golden Gala Pietro Mennea (Roma, ITA)**

100m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002041001020A0101FFFFFFFFFFFF6D.pdf>

200m wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204100103060101FFFFFFFFFFFF6D.pdf>

400m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204100102060101FFFFFFFFFFFF6D.pdf>

100mH wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204100103030101FFFFFFFFFFFF6D.pdf>

110mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204100102080101FFFFFFFFFFFF6D.pdf>

	400mH wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000204100103070101FFFFFFFFFFFF6D.pdf
25-Aug	2024 Kamila Skolimowska Memorial (Silesia, POL)	
	100m mF, wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F01010A0101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040F01020B0101FFFFFFFFFFFF6D.pdf
	200m mF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F01010F0101FFFFFFFFFFFF6D.pdf
	400m wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F0102080101FFFFFFFFFFFF6D.pdf
	100mH wF, wA, wB	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F0102030201FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040F0102030101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040F0102030102FFFFFFFFFFFF6D.pdf
	110mH mF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F0101080101FFFFFFFFFFFF6D.pdf
	400mH mF, wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040F01010B0101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040F0102060101FFFFFFFFFFFF6D.pdf
22-Aug	2024 Athletissima (Lausanne, SUI)	
	100m wF, wBh1, wBh2	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E01020A0101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040E0102010102FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040E0102010101FFFFFFFFFFFF6D.pdf
	200m mF, wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E01010C0101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040E0102070101FFFFFFFFFFFF6D.pdf
	400m mF, mB, wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E0101060101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040E0101040101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040E0102050101FFFFFFFFFFFF6D.pdf
	100mH wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E0102090101FFFFFFFFFFFF6D.pdf
	110mH mF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E01010B0101FFFFFFFFFFFF6D.pdf
	400mH wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040E01020D0101FFFFFFFFFFFF6D.pdf
1-Aug	2024 Olympic Games (Paris, FRA)	
	100m mF, mSF, mH, mPre, mDec, wF, wSF, wH, wPre	Paris 2024 Olympic Games - Results Book (2024). p. 5, 9-11, 19-26, 32-37, 287-289, 360, 364-366, 373-379, 383-385. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf
	200m mF, mSF, mRep, mH, wF, wSF, wRep, wH, wHep	Paris 2024 Olympic Games - Results Book (2024). p. 41, 46-48, 52-55, 60-65, 388, 393-395, 399-402, 407-412, 649-651. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf
	400m mF, mSF, mRep, mH, mDec, wF, wSF, wRep, wH	Paris 2024 Olympic Games - Results Book (2024). p. 68, 73-75, 79-82, 87-92, 304-306, 415, 420-422, 426-429, 434-439. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf
	100mH wF, wSF, wRep, wH, wHep wF, wSF (japan), wRep (japan)	Paris 2024 Olympic Games - Results Book (2024). p. 541, 546-548, 552-554, 558-562, 637-639. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 96-105. (in Japanese)
	110mH mSF, mRep, mH, mDec mF, mSF (japan), mH (japan)	Paris 2024 Olympic Games - Results Book (2024). p. 193, 197-199, 203-205, 209-213, 309-311. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 80-90. (in Japanese)
	400mH mF, mSF, mRep, mH, wF, wSF, wRep, wH mH (japan)	Paris 2024 Olympic Games - Results Book (2024). p. 216, 220-222, 226-228, 233-237, 565, 570-572, 576-578, 582-586. Retrieved from https://olympics.com/OG2024/pdf/OG2024/ATH/OG2024_ATH_B99_ATH-----pdf Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 109-119. (in Japanese)
28-Jul	2024 Japanese National High School Championships (Fukuoka, JPN)	
	200m mF, wF	Takashima, K., Fukuda, A., & Urata, T. (2024) - 6th national high school sports festival - biomechanics data. p. 4, 34. (in Japanese)
	400m mF, wF	Takashima, K., Fukuda, A., & Urata, T. (2024) - 6th national high school sports festival - biomechanics data. p. 6, 36. (in Japanese)
	100mH wF	Takashima, K., Fukuda, A., & Urata, T. (2024) - 6th national high school sports festival - biomechanics data. p. 46. (in Japanese)
	110mH mF	Takashima, K., Fukuda, A., & Urata, T. (2024) - 6th national high school sports festival - biomechanics data. p. 16. (in Japanese)
	400mH mF, wF	Takashima, K., Fukuda, A., & Urata, T. (2024) - 6th national high school sports festival - biomechanics data. p. 18, 48. (in Japanese)

- 20-Jul **2024 London Athletics Meet (London, GBR)**
 100m mF, mNatF, wNatF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040D01020F0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D0102030101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D0101030101FFFFFFFFFFFF6D.pdf>
 200m wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040D01010E0101FFFFFFFFFFFF6D.pdf>
 400m mF, mNatF, wF, wNatF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040D01020E0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D0102080101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D01010B0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D0101080101FFFFFFFFFFFF6D.pdf>
 400mH mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040D01020B0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040D0101090101FFFFFFFFFFFF6D.pdf>
- 19-Jul **2024 Holloway Pro Classic (Gainesville, FL)**
 400m mF (wilson) Track Newsletter (2024). Holloway pro classic. Track e-Newsletter 23(51). p. 424.
- 12-Jul **2024 Herculis Meeting International d'Athlétisme (Monaco, MON)**
 100m wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040C0101080101FFFFFFFFFFFF6D.pdf>
 200m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040C0102070101FFFFFFFFFFFF6D.pdf>
 400m mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040C0102050101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040C0101040101FFFFFFFFFFFF6D.pdf>
 110mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040C0102060101FFFFFFFFFFFF6D.pdf>
 400mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040C0102020101FFFFFFFFFFFF6D.pdf>
- 7-Jul **2024 Meeting de Paris (Paris, FRA)**
 100m wF, wNat Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040B01020C0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040B0102090101FFFFFFFFFFFF6D.pdf>
 200m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040B010100101FFFFFFFFFFFF6D.pdf>
 400m wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040B01020B0101FFFFFFFFFFFF6D.pdf>
 110mH mF, mH Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040B0101090201FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040B0101090102FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/0002040B0101090101FFFFFFFFFFFF6D.pdf>
 400mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040B01010B0101FFFFFFFFFFFF6D.pdf>
- 7-Jul **2024 FBK Games (Hengelo, NED)**
 100m mNat, wF Omega Timing (2024). Continental Tour Gold race analysis. Retrieved from <https://www.omegatiming.com/File/000204020102070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204020103090101FFFFFFFFFFFF6D.pdf>
 200m mNat, wNat Omega Timing (2024). Continental Tour Gold race analysis. Retrieved from <https://www.omegatiming.com/File/000204020102060101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204020103050101FFFFFFFFFFFF6D.pdf>
 400m mNat, wNat Omega Timing (2024). Continental Tour Gold race analysis. Retrieved from <https://www.omegatiming.com/File/000204020102040101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204020103030101FFFFFFFFFFFF6D.pdf>
 100mH wF Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 wH Omega Timing (2024). Continental Tour Gold race analysis. Retrieved from <https://www.omegatiming.com/File/000204020103070101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204020103070102FFFFFFFFFFFF6D.pdf>
- 30-Jun **2024 Japanese National Championships (Niigata, JPN)**
 100mH wF Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 96-105. (in Japanese)
 110mH mF Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 80-90. (in Japanese)
 400mH mF, wF Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 20, p 109-119. (in Japanese)
- 30-Jun **2024 Japanese National U20 Championships (Niigata, JPN)**
 100mH wF Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 96-105. (in Japanese)
 110mH mF Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 80-90. (in Japanese)

	400mH	mF, wF	Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 109-119. (in Japanese)
29-Jun	2024 Chinese National Grand Prix Final (Rizhao, CHN)		
	100m	mF, mH, wF, wH	Shandong Athletics Sport Science (2024)
	200m	mF, mH, wF, wH	Shandong Athletics Sport Science (2024)
	100mH	wF, wH	Shandong Athletics Sport Science (2024)
	110mH	mF	Shandong Athletics Sport Science (2024)
	400mH	mF, wF, wH	Shandong Athletics Sport Science (2024)
23-Jun	2024 Japanese National Multi-Event Championships (Gifu, JPN)		
	100m	mDec	Matsubayashi, T. (2024). performance analysis of decathlon athletes in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 172. (in Japanese)
	200m	wHept	Matsubayashi, T. (2024). performance analysis of heptathlon athletes in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 180. (in Japanese)
	400m	mDec	Matsubayashi, T. (2024). performance analysis of decathlon athletes in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 175. (in Japanese)
	100mH	wHept	Matsubayashi, T. (2024). performance analysis of heptathlon athletes in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 179. (in Japanese)
	110mH	mDec	Matsubayashi, T. (2024). performance analysis of decathlon athletes in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 176. (in Japanese)
22-Jun	2024 USA Olympic Trials (Eugene, OR)		
	200m	mF, mSF, mH, wF, wSF, wH	USATF and Karmarush (2024) - USA Olympic trials results and race analysis. Retrieved from https://results.usatf.org/2024trials/
	400m	mF, mSF, mH, wF, wSF, wH	USATF and Karmarush (2024) - USA Olympic trials results and race analysis. Retrieved from https://results.usatf.org/2024trials/
	100mH	wF, wSF, wH	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH	mF, mSF, mH	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH	mF, mSF, mH, wF, wSF, wH	USATF and Karmarush (2024) - USA Olympic trials results and race analysis. Retrieved from https://results.usatf.org/2024trials/
7-Jun	2024 European Athletics Championships (Roma, ITA)		
	400m	mF, mSF, mH, wF, wSF, wH	European Athletics (2024). 2024 European athletics championships - results book. p. 25, 29-31, 35-37, 245, 249-251, 255-257. Retrieved from https://european-athletics.directus.app/assets/fe31f746-d9d1-4555-8899-d095f5843ff0/Results%20Book%20-%20European%20Athletics%20Championships%202024.pdf
	100mH	wF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH	mF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH	mF, mSF, mH, wF, wSF, wH	European Athletics (2024). 2024 European athletics championships - results book. p. 116, 121-126, 130-135, 327, 332-337, 341-346. Retrieved from https://european-athletics.directus.app/assets/fe31f746-d9d1-4555-8899-d095f5843ff0/Results%20Book%20-%20European%20Athletics%20Championships%202024.pdf
5-Jun	2024 NCAA Championships (Eugene, OR)		
	100mH	wF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH	mF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH	mF, wF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Jun	2024 Bauhaus Galan (Stockholm, SWE)		
	100m	mF, mNatF, wF, wNatF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040A0103080101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040A0103010101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040A0102060101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040A01020101FFFFFFFFFFFF6D.pdf
	200m	wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040A01020A0101FFFFFFFFFFFF6D.pdf
	400m	mF, wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040A0103020101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040A0102010101FFFFFFFFFFFF6D.pdf
	400mH	wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002040A0102090101FFFFFFFFFFFF6D.pdf
		mF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Jun	2024 Chinese National Grand Prix 5 (Huangshi, CHN)		
	100m	mF, mSF, mH	Shandong Athletics Sport Science (2024)
	200m	mH	Shandong Athletics Sport Science (2024)
2-Jun	2024 Fuse Sprint (Tottori, JPN)		
	110mH	mF	Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 20, p 80-90. (in Japanese)
30-May	2024 Bislett Games (Oslo, NOR)		

- 400m mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204090101080101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204090102080101FFFFFFFFFFFF6D.pdf>
- 400mH mF, wF Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 28-May **2024 Second Belt & Road Invitational Athletics Meeting (Chongqing, CHN)**
 100m mF, mSF, mH Shandong Athletics Sport Science (2024)
 200m mF, mH Shandong Athletics Sport Science (2024)
 400mH wF, wH Shandong Athletics Sport Science (2024)
- 25-May **2024 Prefontaine Classic (Eugene, OR)**
 100m mF, wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002040801020D0101FFFFFFFFFFFF6D.pdf>
<https://www.omegatiming.com/File/000204080103050101FFFFFFFFFFFF6D.pdf>
 200m mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204080103080101FFFFFFFFFFFF6D.pdf>
 100mH wF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204080102090101FFFFFFFFFFFF6D.pdf>
 110mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204080103060101FFFFFFFFFFFF6D.pdf>
 400mH mF Omega Timing (2024). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000204080103040101FFFFFFFFFFFF6D.pdf>
- 25-May **2024 Shimane High School Championships (Izumo, JPN)**
 100m mF, wF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 2 & 4. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
 200m mF, wF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 6 & 8. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
 400m mF, wF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 10 & 12. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
 100mH wF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 20. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
 110mH mF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 18. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
 400mH mF, wF Shimizu, Y. (2024). Shimane high school championships 2024, Biomechanics data analysis. p. 22 & 24. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/056/968/2c393db6c810fe5569a3041102af0ebbb77b5639/最終報告（リレーなし）.pdf?1716784150
- 19-May **2024 Meeting International Mohammed VI d'Athlétisme (Marrakech, MAR)**
 400mH wF Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 19-May **2024 Seiko Golden Grand Prix (Tokyo, JPN)**
 100mH wF Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 96-105. (in Japanese)
 110mH mF Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 80-90. (in Japanese)
 400mH mF Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 20, p 109-119. (in Japanese)
- 18-May **2024 adidas Atlanta City Games (Atlanta, GA) (straightaway)**
 150m mF Atlanta Tack Club (2024). <https://results.adidasatlantacitygames.com>. Timing by PrimeTime Timing with Results powered by Karmarush
- 14-May **2024 Chinese National Grand Prix 2 (Qingdao, CHN)**
 100m mF, mSF, mH, wH Shandong Athletics Sport Science (2024)
 200m mF, mH Shandong Athletics Sport Science (2024)
- 12-May **2024 Michitaka Kinami Memorial (Osaka, JPN)**
 100mH wF Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 96-105. (in Japanese)
 110mH mF Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 80-90. (in Japanese)
 400mH mF, wF, wB, wC Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 20, p 109-119. (in Japanese)
- 11-May **2024 Seashore Doha Meeting (Doha, QAT)**

	100m mNatF, wF	Omega Timing (2024). Diamond League race analysis. Retrieved https://www.omegatiming.com/File/000204060101070101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/0002040601020A0101FFFFFFFFFFFF6D.pdf
	200m mF	Omega Timing (2024). Diamond League race analysis. Retrieved https://www.omegatiming.com/File/0002040601010A0101FFFFFFFFFFFF6D.pdf
	400m mF, mNatA, mNatB, wNatF	Omega Timing (2024). Diamond League race analysis. Retrieved https://www.omegatiming.com/File/000204060101090101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/000204060101030102FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/000204060101030101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/000204060102040101FFFFFFFFFFFF6D.pdf
	100mH wF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, mNatF	Omega Timing (2024). Diamond League race analysis. Retrieved https://www.omegatiming.com/File/0002040601010D0101FFFFFFFFFFFF6D.pdf https://www.omegatiming.com/File/000204060101080101FFFFFFFFFFFF6D.pdf
3-May	2024 Shizuoka International Meeting (Fukuroi, JPN)	
	400mH mF, mB, mC, wF, wB	Sugimoto, K. (2024). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 20, p 109-119. (in Japanese)
29-Apr	2024 Mikio Oda Memorial (Hiroshima, JPN)	
	100mH wF, wB	Kishima, K. (2024). Race analysis of domestic and foreign women's 100m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 96-105. (in Japanese)
	110mH mF, mB	Shibayama, K. (2024). Race analysis of men's 110m hurdles in the 2024 season. Bulletin of Studies in Athletics of JAAF, 20, p 80-90. (in Japanese)
27-Apr	2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN)	
	100mH wF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2024) Athlete First: 2024 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
20-Apr	2024 Xiamen Diamond League (Xiamen, CHN)	
	100m mF	Omega Timing (2024). Diamond League race analysis. Retrieved https://www.omegatiming.com/File/0002040401020A0101FFFFFFFFFFFF6D.pdf
	200m wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000204040101090101FFFFFFFFFFFF6D.pdf
	400m wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000204040101060101FFFFFFFFFFFF6D.pdf
	100mH wF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000204040101070101FFFFFFFFFFFF6D.pdf
	110mH mF	Omega Timing (2024). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000204040102090101FFFFFFFFFFFF6D.pdf
29-Mar	2024 Chinese Indoor National Championships (Tianjin, CHN)	
	60m mF, mSF, mH, wH	Shandong Athletics Sport Science (2024)
12-Mar	2024 Chinese Indoor Grand Prix III (Jinan, CHN)	
	60m mF, mH, wF, wH	Shandong Athletics Sport Science (2024)
27-Feb	2024 Chinese Indoor Grand Prix I (Chengdu, CHN)	
	60m mAF, mBF, wAF	Shandong Athletics Sport Science (2024)
	60H mH, wH	Shandong Athletics Sport Science (2024)
15-Oct	2023 Japanese National Sports Festival (Kagoshima, JPN) (300m)	
	300m mF, wF, wU20F	Yamanaka, R. (2023). Analysis of men's and women's 400m and 300m runs in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 78-81. (in Japanese)
3-Oct	2023 Asian Games (Hangzhou, CHN)	
	400mH wF	Shandong Athletics Sport Science (2023)
16-Sep	2023 Prefontaine Classic (Eugene, OR)	
	100m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100102070101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203100101080101FFFFFFFFFFFF4D.pdf
	200m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100102120101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203100101120101FFFFFFFFFFFF4D.pdf
	400m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100102050101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002031001010E0101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100101100101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100102100101FFFFFFFFFFFF4D.pdf
	400mH mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203100102040101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002031001010C0101FFFFFFFFFFFF4D.pdf
8-Sep	2023 Memorial van Damme (Brussels, BEL)	

	100m mU18, wF, wU18	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030F0102030101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F01010E0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F0101030101FFFFFFFFFFFF4D.pdf
	200m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030F01020B0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F0101110101FFFFFFFFFFFF4D.pdf
	400m mF, mBF, wF, wBF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030F01020E0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F01020A0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F01010C0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030F01010A0101FFFFFFFFFFFF4D.pdf
	400mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030F0101100101FFFFFFFFFFFF4D.pdf
2-Sep	2023 Xiamen Diamond League (Xiamen, CHN)	
	100m mF, mNat, wNat	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203110102080101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203110102060101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203110101050101FFFFFFFFFFFF4D.pdf
	400m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203110102070101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002031101010B0101FFFFFFFFFFFF4D.pdf
	100mH wNat	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203110101080101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002031101020C0101FFFFFFFFFFFF4D.pdf
	400mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002031101010C0101FFFFFFFFFFFF4D.pdf
31-Aug	2023 Weltklasse (Zürich, SUI)	
	100m wF, wHA, wHB	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D01010A0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030D0101080102FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030D0101080101FFFFFFFFFFFF4D.pdf
	200m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D01020C0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030D01010D0101FFFFFFFFFFFF4D.pdf
	400m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D0102040101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030D0101070101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D01010E0101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D0102060101FFFFFFFFFFFF4D.pdf
	400mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030D0102070101FFFFFFFFFFFF4D.pdf
20-Aug	2023 World Athletics Championships (Budapest, HUN)	
	100m mDec	Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 158. (in Japanese)
	200m mF, mSF, mH, wF, SF, wH, wHep	Seiko Timing (2023). World Championship race analysis. Retrieved from https://media.aws.iaaf.org/competitiondocuments/pdf/7138987/AT-200-M-f--1--.RS5.pdf https://media.aws.iaaf.org/competitiondocuments/pdf/7138987/AT-200-W-f--1--.RS5.pdf
	mH1, mH4, mH5, mSF1, mSF2, mSF3, wH6	Takahashi, K. (2023). 200m running performance at the 2023 Japanese National Championships and the World Championships. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 73-74. (in Japanese)
	400m mF, mSF, mH, mDec, wF, wSF, wH	Seiko Timing (2023). World Championship race analysis. Retrieved from https://media.aws.iaaf.org/competitiondocuments/pdf/7138987/AT-400-M-f--1--.RS5.pdf https://media.aws.iaaf.org/competitiondocuments/pdf/7138987/AT-400-W-f--1--.RS5.pdf
	mF, mSF, mH1, mH4, mH5, mDec	Yamanaka, R. (2023). Analysis of men's and women's 400m and 300m runs in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 78-81. (in Japanese)
	100mH wF, wH	Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 160. (in Japanese)
	wSF, wH	Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 92-99. (in Japanese)
	110mH mF, mSF, mH	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mSF, mH	Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 103-109. (in Japanese)
	mDec	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
		Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 161. (in Japanese)

	400mH mF, mSF, mH, wF, wSF, wH	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Aug	2023 Japanese National High School Championships (Sapporo, JPN)	
	100m mF, wF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 2, 33. (in Japanese)
	200m mF, wF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 4, 35. (in Japanese)
	400m mF, wF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 6, 37. (in Japanese)
	100mH wF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 47. (in Japanese)
	110mH mF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 16. (in Japanese)
	400mH mF, wF	Takashima, K., Hirokawa, R., Wataya, T., Shinoda, Y., Takumi, S., & Yamada, S. (2023) - 5th national high school sports festival - biomechanics data. p. 18, 49. (in Japanese)
23-Jul	2023 London Athletics Meet (London, GBR)	
	100m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0102090101FFFFFFFFFFFF4D.pdf
	200m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030C01020E0101FFFFFFFFFFFF4D.pdf
	400m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030C01020D0101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030C01020C0101FFFFFFFFFFFF4D.pdf
	400mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030C0101070101FFFFFFFFFFFF4D.pdf
21-Jul	2023 Herculis Meeting International d'Athlétisme (Monaco, MON)	
	100m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0102090101FFFFFFFFFFFF4D.pdf
	200m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0101060101FFFFFFFFFFFF4D.pdf
	400m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0101030101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0101050101FFFFFFFFFFFF4D.pdf
	400mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030B0102040101FFFFFFFFFFFF4D.pdf
21-Jul	2023 Chinese National Championships (Quzhou, CHN)	
	100m mF, mSF, mH	Shandong Athletics Sport Science (2023)
	200m mSF, mH	Shandong Athletics Sport Science (2023)
	400m mF, mSF, mH, wF	Shandong Athletics Sport Science (2023)
16-Jul	2023 Kamila Skolimowska Memorial (Silesia, POL)	
	100m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030A0102090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030A01010B0101FFFFFFFFFFFF4D.pdf
	400m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030A01020B0101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030A0101080101FFFFFFFFFFFF4D.pdf
	110mH mF, mH1, mH2	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030A0102040201FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030A0102040101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030A0102040102FFFFFFFFFFFF4D.pdf
14-Jul	2023 European Athletics U23 Championships (Espoo, FIN)	
	400m mF, mSF, wF, wSF	European Athletics (2023). 2023 European athletics U23 championships - results book. p. 25, 27-28, 187, 191-192.
	400mH mF, mSF, wF, wSF	European Athletics (2023). 2023 European athletics U23 championships - results book. p. 79, 83-84, 242, 246-247.
2-Jul	2023 USATF National Championships (Eugene, OR)	
	100m	
	200m	
	400m mF	Track Newsletter (2023). USATF championships/WCT men. Track e-Newsletter 22(49). p. 404.
	wF	Track Newsletter (2023). USATF championships/WCT men. Track e-Newsletter 22(50). p. 412.
	100mH wF	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Jul	2023 Bauhaus Galan (Stockholm, SWE)	

	100m mF, mNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203090102080101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203090102010101FFFFFFFFFFFF4D.pdf
	200m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030901010B0101FFFFFFFFFFFF4D.pdf
	400m mF, mNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203090102070101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203090102020101FFFFFFFFFFFF4D.pdf
	100mH wF, wNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030901010A0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203090101030101FFFFFFFFFFFF4D.pdf
	400mH mF, wNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030901020B0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203090101040101FFFFFFFFFFFF4D.pdf
30-Jun	2023 Athletissima (Lausanne, SUI)	
	100m mB, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203080102030101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030801010B0101FFFFFFFFFFFF4D.pdf
	200m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030801020B0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203080101050101FFFFFFFFFFFF4D.pdf
	400m mF, wB	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203080102060101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203080101020101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030801010C0101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203080102070101FFFFFFFFFFFF4D.pdf
	400mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030801010D0101FFFFFFFFFFFF4D.pdf
27-Jun	2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)	
	100m mF, mH, wF, wH	Shandong Athletics Sport Science (2023)
	200m mF, mH, wF, wH	Shandong Athletics Sport Science (2023)
	400m mF, mH	Shandong Athletics Sport Science (2023)
	400mH wF, wH	Shandong Athletics Sport Science (2023)
25-Jun	2023 Fuse Sprint (Tottori, JPN)	
	110mH mF	Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 103-109. (in Japanese)
24-Jun	2023 USATF New York City Grand Prix (Randalls Island, NY)	
	400m wF	Track Newsletter (2022). USATF NYC grand prix. <i>Track e-Newsletter</i> 22(46). p. 394.
15-Jun	2023 Bislett Games (Oslo, NOR)	
	200m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030701010B0101FFFFFFFFFFFF4D.pdf
	400m mNatF, wNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203070101030101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203070102040101FFFFFFFFFFFF4D.pdf
	400mH mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030701010D0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203070102090101FFFFFFFFFFFF4D.pdf
10-Jun	2023 Japanese Multi-Event National Championships (Akita, JPN)	
	100m mDec	Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 158. (in Japanese)
	200m wHep	Matsubayashi, T. (2023). Performance analysis of heptathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 166. (in Japanese)
	400m mDec	Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 160. (in Japanese)
	100mH wHep	Matsubayashi, T. (2023). Performance analysis of heptathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 165. (in Japanese)
	110mH mDec	Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 161. (in Japanese)
9-Jun	2023 Meeting de Paris (Paris, FRA)	
	100m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030601010A0101FFFFFFFFFFFF4D.pdf
	200m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203060102110101FFFFFFFFFFFF4D.pdf
	400m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203060102100101FFFFFFFFFFFF4D.pdf
	110mH mF, mH1, mH2	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203060101050201FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203060101050101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203060101050102FFFFFFFFFFFF4D.pdf

	400mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203060101080101FFFFFFFFFFFF4D.pdf
9-Jun	2023 Chinese National Grand Prix 5 (Huangshi, CHN)	
	100m mF, mSF, mH, wSF, wH	Shandong Athletics Sport Science (2023)
	200m mH	Shandong Athletics Sport Science (2023)
	400m mH	Shandong Athletics Sport Science (2023)
4-Jun	2023 FBK Games (Hengelo, NED)	
	100m mF, mNatH1, wF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/0002030101020E0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203010102060101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203010101090101FFFFFFFFFFFF4D.pdf
	200m wF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/0002030101010F0101FFFFFFFFFFFF4D.pdf
	400m mF, wF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/0002030101020D0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002030101010D0101FFFFFFFFFFFF4D.pdf
	100mH wF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/0002030101010A0101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/0002030101020B0101FFFFFFFFFFFF4D.pdf
	400mH mF	Omega Timing (2023). Continental Tour race analysis. Retrieved from https://www.omegatiming.com/File/000203010102090101FFFFFFFFFFFF4D.pdf
4-Jun	2023 Japanese National Championships (Osaka, JPN)	
	200m mF, wF	Takahashi, K. (2023). 200m running performance at the 2023 Japanese National Championships and the World Championships. Bulletin of Studies in Athletics of JAAF, 19, p 73-74. (in Japanese)
	400m mF, mH, wF, wH	Yamanaka, R. (2023). Analysis of men's and women's 400m and 300m runs in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 78-81. (in Japanese)
	100mH wF	Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 92-99. (in Japanese)
	110mH mF	Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 103-109. (in Japanese)
	400mH mF, wF	Sugimoto, K. (2023). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 115-122. (in Japanese)
4-Jun	2023 Japanese U20 National Championships (Osaka, JPN)	
	200m mF, wF	Takahashi, K. (2023). 200m running performance at the 2023 Japanese National Championships and the World Championships. Bulletin of Studies in Athletics of JAAF, 19, p 73-74. (in Japanese)
	100mH wF	Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 92-99. (in Japanese)
	400mH mF, wF	Sugimoto, K. (2023). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 115-122. (in Japanese)
2-Jun	2023 Golden Gala Pietro Mennea (Firenze, ITA)	
	100m mF, wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203050102090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203050101080101FFFFFFFFFFFF4D.pdf
	200m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203050102050101FFFFFFFFFFFF4D.pdf
	400m wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203050101090101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203050102070101FFFFFFFFFFFF4D.pdf
	400mH wF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203050101050101FFFFFFFFFFFF4D.pdf
2-Jun	2023 Chinese National Grand Prix 4 (Chongqing, CHN)	
	100m mF, mSF, mH, wF, wSF, wH	Shandong Athletics Sport Science (2023)
	200m mF, mH, wF	Shandong Athletics Sport Science (2023)
	400m mF, mH	Shandong Athletics Sport Science (2023)
	100mH wF	Shandong Athletics Sport Science (2023)
	400mH wF	Shandong Athletics Sport Science (2023)
28-May	2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)	
	100m mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002030401020A0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040102010101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040101090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040101010101FFFFFFFFFFFF4D.pdf
	200m mNatF, wF, wNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203040102010101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040101090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040101010101FFFFFFFFFFFF4D.pdf
	400m mF, mNatF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203040102080101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/000203040102040101FFFFFFFFFFFF4D.pdf
	110mH mF	Omega Timing (2023). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000203040102070101FFFFFFFFFFFF4D.pdf

- 400mH wF Omega Timing (2023). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000203040101050101FFFFFFFFFFFF4D.pdf>
- 27-May **2023 Shimane High School Championships (Izumo, JPN)**
- 100m mF, wF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 2 & 4. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 200m mF, wF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 6 & 8. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 400m mF, wF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 10 & 12. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 100mH wF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 20. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 110mH mF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 18. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 400mH mF, wF Shimizu, Y. (2023). Shimane high school championships 2023, Biomechanics data analysis. p. 22 & 24. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/049/944/2973a6037bbd15e13df3c75f798680340ee4c576/最終報告.pdf?1685401305
- 26-May **2023 Chinese National Grand Prix 3 (Taizhou, CHN)**
- 100m mSF, mH, wH Shandong Athletics Sport Science (2023)
- 200m mF, mH, wH Shandong Athletics Sport Science (2023)
- 400m mF, mH Shandong Athletics Sport Science (2023)
- 100mH wF Shandong Athletics Sport Science (2023)
- 21-May **2023 Seiko Golden Grand Prix (Yokohama, JPN)**
- 400m mF Yamanaka, R. (2023). Analysis of men's and women's 400m and 300m runs in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 78-81. (in Japanese)
- 100mH wF Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 92-99. (in Japanese)
- 110mH mF Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 103-109. (in Japanese)
- 400mH mF Sugimoto, K. (2023). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 115-122. (in Japanese)
- 7-May **2023 Michitaka Kinami Memorial (Osaka, JPN)**
- 100m mDec Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 158. (in Japanese)
- 200m wHep Matsubayashi, T. (2023). Performance analysis of heptathlon athletes in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 166. (in Japanese)
- 400m mDec Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 160. (in Japanese)
- 100mH wF Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 92-99. (in Japanese)
- wHep Matsubayashi, T. (2023). Performance analysis of heptathlon athletes in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 165. (in Japanese)
- 110mH mF Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 103-109. (in Japanese)
- mDec Matsubayashi, T. (2023). Performance analysis of decathlon athletes in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 161. (in Japanese)
- 400mH mF, wF Sugimoto, K. (2023). Race analysis of men's and women's 400m hurdles in the 2023 season. Bulletin of Studies in Athletics of JAAF, 19, p 115-122. (in Japanese)
- 5-May **2023 Doha Diamond League (Doha, QAT)**
- 200m mF Omega Timing (2023). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002030301020D0101FFFFFFFFFFFF4D.pdf>
- 400m mF, wF Omega Timing (2023). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000203030102070101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/000203030101050101FFFFFFFFFFFF4D.pdf>
- 100H wF Henson, T. (2023) Athlete First: 2023 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400H mF Omega Timing (2023). Diamond League race analysis. Retrieved from https://doha.diamondleague.com/live/libs/jetuniversalcomponents/modules/pdfViewer/viewer.html?file=https://livecache.sportresult.com/node/binaryData/ATH_PROD/DOHA2023/PDF_ATHM400MHURDDIAMOND---FNL-000100-_C78.PDF?h=kCSgWSlqdoTqezKCaQ4ypcRIQWY=
- 3-May **2023 Shizuoka International Meeting (Fukuroi, JPN)**

	400H mAF, mBF, mCF, wAF, wBF, wCF	Sugimoto, K. (2023). Race analysis of men's and women's 400m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 115-122. (in Japanese)
29-Apr	2023 Mikio Oda Memorial (Hiroshima, JPN)	
	100mH wF	Kishima, K. (2023). Race analysis of top domestic and overseas women's 100m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 92-99. (in Japanese)
	110mH mF	Shibayama, K. (2023). Race analysis of men's 110m hurdles in the 2023 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 19, p 103-109. (in Japanese)
26-Apr	2023 Chinese National Grand Prix 1 (Rizhao, CHN)	
	100m mF, mSF, mH, wH	Shandong Athletics Sport Science (2023)
	200m mF, mH, wH	Shandong Athletics Sport Science (2023)
	400m mF, mH	Shandong Athletics Sport Science (2023)
	60mH wF, wH	Shandong Athletics Sport Science (2023)
16-Mar	2023 Chinese Indoor National Championships (Tianjin, CHN)	
	60m mH, wSF, wH	Shandong Athletics Sport Science (2023)
28-Feb	2023 Chinese Indoor Grand Prix II (Chengdu, CHN)	
	60m mF, mH, wF, wH	Shandong Athletics Sport Science (2023)
	60mH wF	Shandong Athletics Sport Science (2023)
25-Feb	2023 Chinese Indoor Grand Prix I (Chengdu, CHN)	
	60m mF, mH, wH	Shandong Athletics Sport Science (2023)
7-Sep	2022 Weltklasse (Zürich, SUI)	
	100m mF, wF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000202000101100101FFFFFFFFFFFF4E.pdf
	200m mF, wF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000202000101130101FFFFFFFFFFFF4E.pdf
	400m mF, mFB, wF, wFB	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000202000101090101FFFFFFFFFFFF4E.pdf
	100mH wF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Sep	2022 Memorial van Damme (Brussels, BEL)	
	100m wF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002021201020C0101FFFFFFFFFFFF4E.pdf
	200m mF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002021201010C0101FFFFFFFFFFFF4E.pdf
	400m mF, wF, wB	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002021201010A0101FFFFFFFFFFFF4E.pdf
	100mH wF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
30-Aug	2022 Shandong Provincial Games (Rizhao, CHN)	
	100m mU20F, mU18F, wU20SF1, wU20F, wU18F, wU20SF1	Shandong Athletics Sport Science (2022)
	200m mU20F, mU18F, mU20SF, mU20H, wU20F, wU18F, wU20H	Shandong Athletics Sport Science (2022)
	400mH mU20F, mU18F, wU20F, wU18F	Shandong Athletics Sport Science (2022)
17-Aug	2022 European Athletics Championships (Munich, GER)	
	400m mF, mSF, mH, wF, wSF, wH	European Athletics (2022). European athletics championships race analysis. p. 26, 30-32, 36-39, 234, 238-240, 244-246. Retrieved from https://ec2022results.com/webrelease/resECM2022/pdf/ECM2022/ATH/ECM2022_ATH_B99_ATH------.pdf
	100mH wF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)

- 400mH mF, mSF, mH, wF, wSF, wH European Athletics (2022). European athletics championships race analysis. p. 115, 119-121, 125-128, 315, 319-321, 325-327. Retrieved from https://ec2022results.com/webrelease/resECM2022/pdf/ECM2022/ATH/ECM2022_ATH_B99_ATH-----pdf
- 10-Aug **2022 Herculis Meeting International d'Athlétisme (Monaco, MON)**
- 100m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202100102040101FFFFFFFFFFFF4E.pdf>
- 200m mF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202100101060101FFFFFFFFFFFF4E.pdf>
- 400m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202100102080101FFFFFFFFFFFF4E.pdf>
- 110mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-Aug **2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)**
- 100m mF, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020501010C0101FFFFFFFFFFFF4E.pdf>
- 200m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020501020E0101FFFFFFFFFFFF4E.pdf>
- 400m mF, wF, wB Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020501010E0101FFFFFFFFFFFF4E.pdf>
- 100mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 4-Aug **2022 Japanese High School National Championships (Fukui, JPN)**
- 100m mF, wF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 2, 27. (in Japanese)
- 200m mF, wF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 4, 29. (in Japanese)
- 400m mF, wF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 6, 31. (in Japanese)
- 100mH wF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 37. (in Japanese)
- 110mH mF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 12. (in Japanese)
- 400mH mF, wF Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 14, 39. (in Japanese)
- 3-Aug **2022 Commonwealth Games (Birmingham, GBR)**
- 100m mF, mSF, wF, wSF Longines Timing (2022) - Commonwealth Games race analysis. p. 3, 9-11, 184, 189-191. Retrieved from https://b2022-pdf.microplustimingservices.com/ATH/ResultBook/CG2022_ATH_v1.1.pdf
- 200m mF, mSF, wF, wSF Longines Timing (2022) - Commonwealth Games race analysis. p. 44, 49-51, 211, 216-218. Retrieved from https://b2022-pdf.microplustimingservices.com/ATH/ResultBook/CG2022_ATH_v1.1.pdf
- 400m mF, mSF, wF, wSF Longines Timing (2022) - Commonwealth Games race analysis. p. 66, 71-73, 231, 235-236. Retrieved from https://b2022-pdf.microplustimingservices.com/ATH/ResultBook/CG2022_ATH_v1.1.pdf
- 100mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- h3 Henson, T. (2022) Athlete First: 2022 Tobi Amusan 100m hurdles world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 18-Jul **2022 World Athletics Championships (Eugene, OR)**
- 100m wF Zheng T. (2022). A study on the speed characteristics of the women's 100m race finalists at the 2022 Eugene world championships. Bulletin of Sport Science and Technology, 30. p. 55. (in Chinese)
- 200m mF, mSF, mH, wF, wSF, wH, wHept Timing by Seiko (2022). World Athletics Championships race analysis. Retrieved from <https://media.aws.iaaf.org/competitiondocuments/pdf/7137279/AT-200-M-f-1--RS5.pdf>
- 400m mF, mSF, mH, mDec, wF, wSF, wH Timing by Seiko (2022). World Athletics Championships race analysis. Retrieved from <https://media.aws.iaaf.org/competitiondocuments/pdf/7137279/AT-400-M-f-1--RS5.pdf>
- 100mH wF, wSF2 (aoki), wSF1 (amusan, fukube) Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 158-159. (in Japanese)
- wF, wSF, wH Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

	110mH mF, mSF3, mSF2 (izumiya), mSF1 (ishikawa). mH5, mH4, mH3 mF, mSF, mH	Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 145-146. (in Japanese)
	400mH mF, mSF3 (kurokawa), mH2, mH1 mSF, mH, wF, wSF, wH	Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 167-168. (in Japanese)
15-Jul	2022 Chinese National Grand Prix (Huangshi, CHN) 100mH wF	Gong X. (2023). Research on the technical characteristics of outstanding women's 100m hurdlers in China. (Dissertation) Jilin Sport University. p. 39, 47. (in Chinese)
14-Jul	2022 Shandong Athletics Games (Rizhao, CHN) 100m mF, mH, wF	Shandong Athletics Sport Science (2022)
30-Jun	2022 Bauhaus Galan (Stockholm, SWE) 100m mF 200m wF 400m wF 100mH wF 400mH mF, wF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020D0102080101FFFFFFFFFFFF4E.pdf Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020D01010E0101FFFFFFFFFFFF4E.pdf Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020D0101080101FFFFFFFFFFFF4E.pdf Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis)
23-Jun	2022 USATF National Championships (Eugene, OR) 100m 200m mF wF 400m mF wF 100mH wF 110mH mF mSF 400mH mF, wF, wSF wSF, wH1 wH1	Track Newsletter (2022). USATF championships men. <i>Track e-Newsletter</i> 21(54). p. 414. Track Newsletter (2022). USATF championships women. <i>Track e-Newsletter</i> 21(55). p. 420. Track Newsletter (2022). USATF championships men. <i>Track e-Newsletter</i> 21(54). p. 414. Track Newsletter (2022). USATF championships women. <i>Track e-Newsletter</i> 21(55). p. 420. Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) USATF (2022) - Results powered by Karmarush.com Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) USATF (2022) - Results powered by Karmarush.com Henson, T. (2022) <i>Athlete First: 2022 Sydney McLaughlin 400m hurdles world record season</i> . Retrieved from http://www.athetefirst.org (TV Analysis)
18-Jun	2022 Meeting de Paris (Paris, FRA) 100m mF, wF 200m mF 400m mF, wF 100mH wF 110mH mF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020C0102050101FFFFFFFFFFFF4E.pdf https://www.omegatiming.com/File/0002020C01010C0101FFFFFFFFFFFF4E.pdf Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020C0102080101FFFFFFFFFFFF4E.pdf Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020C01020B0101FFFFFFFFFFFF4E.pdf https://www.omegatiming.com/File/0002020C0101080101FFFFFFFFFFFF4E.pdf Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis)
16-Jun	2022 Bislett Games (Oslo, NOR) 100m mF 400m mF 110mH mF 400mH mF, wF	Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020B01020A0101FFFFFFFFFFFF4E.pdf Omega Timing (2022). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002020B0102080101FFFFFFFFFFFF4E.pdf Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2022) <i>Athlete First: 2022 year end hurdle report</i> . Retrieved from http://www.athetefirst.org (TV Analysis)
12-Jun	2022 Japanese National Championships (Osaka, JPN) 100mH wF 110mH mF 400mH mF, wF	Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 157. (in Japanese) Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 143. (in Japanese) Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 165 & 171. (in Japanese)

- 12-Jun **2022 Japanese U20 National Championships (Osaka, JPN)**
 110mH mF Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 144. (in Japanese)
 400mH mF, wF Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 166 & 172. (in Japanese)
- 10-Jun **2022 NCAA Championships (Eugene, OR)**
 400m mF Track Newsletter (2022). NCAA championships men. *Track e-Newsletter* 21(50). p. 383.
- 9-Jun **2022 Golden Gala Pietro Mennea (Rome, ITA)**
 100m mF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020A01010B0101FFFFFFFFFFFF4D.pdf>
 200m mF, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020A0101080101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/0002020A0102080101FFFFFFFFFFFF4D.pdf>
 400m mF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020A0101070101FFFFFFFFFFFF4D.pdf>
 100mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-Jun **2022 FBK Games (Hengelo, NED)**
 100m mF, wF Omega Timing (2022). Continental Tour race analysis. Retrieved from <https://www.omegatiming.com/File/0002020201010C0101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/0002020201020D0101FFFFFFFFFFFF4D.pdf>
 400m mF, wF Omega Timing (2022). Continental Tour race analysis. Retrieved from <https://www.omegatiming.com/File/0002020201010B0101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/0002020201020A0101FFFFFFFFFFFF4D.pdf>
- 5-Jun **2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)**
 100m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202090101070101FFFFFFFFFFFF4D.pdf>
 200m mF, mNat, wNat Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202090102090101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/000202090102010101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/000202090101020101FFFFFFFFFFFF4D.pdf>
 400m mNat, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202090102040101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/000202090101060101FFFFFFFFFFFF4D.pdf>
 400mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-May **2022 Japanese Multi-Event National Championships (Akita, JPN)**
 100m mDec Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 196. (in Japanese)
 200m wHept Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 205. (in Japanese)
 400m mDec Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 198. (in Japanese)
 100mH wHept Takefu, M. (2023). Performance analysis of heptathletes in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 204. (in Japanese)
 110mH mDec Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 199. (in Japanese)
- 28-May **2022 Prefontaine Classic (Eugene, OR)**
 100m mF, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020801011F0101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/0002020801021C0101FFFFFFFFFFFF4D.pdf>
 200m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/000202080102220101FFFFFFFFFFFF4D.pdf>
 400m mF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020801011C0101FFFFFFFFFFFF4D.pdf>
 100mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 27-May **2022 Shimane High School Championships (Izumo, JPN)**
 100m mF, wF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 2 & 4. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815
 200m mF, wF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 6 & 8. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815

- 400m mF, wF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 10 & 12. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815
- 100mH wF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 20. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815
- 110mH mF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 18. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815
- 400mH mF, wF Shimizu, Y. (2022). Shimane high school championships 2022, Biomechanics data analysis. p. 22 & 24. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/041/652/c80dbf80b646de1d11aabbcd35485822b91ef298/ま と ち.pdf?1653865815
- 21-May **2022 Müller Birmingham Diamond League (Birmingham, GBR)**
- 100m mF, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020101020A0101FFFFFFFFFFFF4D.pdf>
<https://www.omegatiming.com/File/0002020101010E0101FFFFFFFFFFFF4D.pdf>
- 400m mF, mB, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <https://www.omegatiming.com/File/0002020101020D0101FFFFFFFFFFFF4D.pdf>
<http://static.sportresult.com/sports/at/data/2022/london/are4040040.pdf>
<http://static.sportresult.com/sports/at/data/2022/london/are5040040.pdf>
- 110mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-May **2022 Doha Diamond League (Doha, QAT)**
- 200m mF, wF Omega Timing (2022). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2022/doha/are0020040.pdf>
<http://static.sportresult.com/sports/at/data/2022/doha/are1020040.pdf>
- 400m wF Omega Timing (2022). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2022/doha/are1040040.pdf>
- 100mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 8-May **2022 Seiko Golden Grand Prix (Tokyo, JPN)**
- 100mH wF Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 156. (in Japanese)
- 110mH mF Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 142. (in Japanese)
- 400mH mF, wF Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 164 & 170. (in Japanese)
- 1-May **2022 Michitaka Kinami Memorial (Osaka, JPN)**
- 100m mDecH1, mDecH2 Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 196. (in Japanese)
- 200m wHept Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 205. (in Japanese)
- 400m mDecH1, mDecH2 Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 198. (in Japanese)
- 100mH wF Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 155. (in Japanese)
- wHeptH1, wHeptH2 Takefu, M. (2023). Performance analysis of heptathletes in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 204. (in Japanese)
- 110mH mF Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 141. (in Japanese)
- mDecH1, mDecH2 Takefu, M. (2023). Performance analysis of decathlon athletes in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 199. (in Japanese)
- 400mH mF, wF, wB, wC Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 163 & 169. (in Japanese)
- 29-Apr **2022 Mikio Oda Memorial (Hiroshima, JPN)**
- 100mH wF, wBF Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 153-154. (in Japanese)
- 110mH mF, mBF Shibayama, K. (2023). Race analysis of the men's 110m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 139-140. (in Japanese)
- 20-Mar **World Athletics Indoor Championships (Belgrade, SRB)**
- 60mH wF Henson, T. (2022) Athlete First: 2022 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

	60mH mF, mSF2	Henson, T. (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record. Retrieved from http://www.athetefirst.org (TV Analysis)
19-Feb	2022 Müller Indoor Grand Prix (Birmingham, GBR) 60mH mF	Henson, T. (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record. Retrieved from http://www.athetefirst.org (TV Analysis)
17-Feb	2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) 60mH mF, mH2	Henson, T. (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record. Retrieved from http://www.athetefirst.org (TV Analysis)
6-Feb	2022 New Balance Indoor Grand Prix (Staten Island, NY) 60mH mF	Henson, T. (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record. Retrieved from http://www.athetefirst.org (TV Analysis)
23-Oct	2021 Japanese U18 & U16 National Championships (Matsuyama, JPN) 150m mU16F, wU16F 300m mU18F, wU18F 110mH mU18F, mU16F	Takahasi, K. (2021). Race analysis of domestic 200m and U16 150m in the Tokyo Olympic season. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 130. (in Japanese) Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 140. (in Japanese) Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 152. (in Japanese)
25-Sep	2021 All Japan Corporate Championships (Osaka, JPN) 400m mF mH	@ohnishigundan (2021.09.25) Retrieved from https://twitter.com/ohnishigundan/status/1441633743874117633 (in Japanese) @ohnishigundan (2021.09.24) Retrieved from https://twitter.com/ohnishigundan/status/1441598727207063561 (in Japanese)
22-Jul	2021 Chinese National Games (Xi'an, CHN) 100mH wF, wSF3 110mH mF	CAA Hurdle Development (2021): Final 2021 year end report (in Chinese) Huo J. (2022). Research on the technical characteristics of elite Chinese 110m hurdlers. (Dissertation) Institute of Sports Science of the State Administration of Sports. p. 24-25, 28, 36. (in Chinese)
14-Sep	2021 Boris Hanžeković Memorial (Zagreb, CRO) 110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
12-Sep	2021 ISTAF (Berlin, GER) 400mH mF	Henson, T. (2021) Athlete First: 2021 Karsten Warholm 400m Hurdles World Record Season Retrieved from http://www.athetefirst.org (TV Analysis)
9-Sep	2021 Weltklasse (Zürich, SUI) 100m mF, wF 200m mF, wF 400m mF, wF, wBF 100mH wF 110mH mF 400mH mF, wF mF, mBF, wF (200m)	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002011101010D0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010C0101130101FFFFFFFFFFFF4D.pdf Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010C0102120101FFFFFFFFFFFF4D.pdf Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010C0102080101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010C01010E0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010C01010B0101FFFFFFFFFFFF4D.pdf Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010C0102110101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010C0102060101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010C0101150101FFFFFFFFFFFF4D.pdf
3-Sep	2021 Memorial van Damme (Brussels, BEL) 100m mF 200m wF 400m mF, wF 100mH wF 400mH mF mF (200m)	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002011101020A0101FFFFFFFFFFFF4D.pdf Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002011101010D0101FFFFFFFFFFFF4D.pdf Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/000201110102090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002011101010E0101FFFFFFFFFFFF4D.pdf Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002011101020D0101FFFFFFFFFFFF4D.pdf
28-Aug	2021 Meeting de Paris (Paris, FRA) 400m wF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/paris/are1040040.pdf

	100mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
26-Aug	2021 Athletissima (Lausanne, SUI)	
	100m wF, wBH1&2	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010F01020D0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0102020102FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0102020101FFFFFFFFFFFF4D.pdf
	200m mF, mB, wF	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010F01010E0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0101060101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0102070101FFFFFFFFFFFF4D.pdf
	400m mF, mB, wF, wB	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010F0101090101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0101020101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F01020A0101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010F0101020101FFFFFFFFFFFF4D.pdf
	110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010F01020E0101FFFFFFFFFFFF4D.pdf
8-Aug	2021 Prefontaine Classic (Eugene, OR)	
	100m mF, wF	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010D0102070101FFFFFFFFFFFF4D.pdf https://www.omegatiming.com/File/0002010D0101070101FFFFFFFFFFFF4D.pdf
	200m mF	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010D0102040101FFFFFFFFFFFF4D.pdf
	400mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2021). Diamond League race analysis. Retrieved from https://www.omegatiming.com/File/0002010D01010A0101FFFFFFFFFFFF4D.pdf
5-Aug	2020 Olympic Games (Tokyo, JPN)	
	100m mF, mSF3, wF	Vazel, P.J. (2021) Analyzing the olympic 100-meter sprints. Retrieved from https://www.hmmrmedia.com/2021/10/tokyo-sprint-analysis/
	200m wF (2)	Vazel (2021.0.04) Retrieved from https://twitter.com/pjvazel/status/1422593785813377036?s=21
	400m mF	Omega Timing (2022) - Tokyo 2020 - race analysis - men's 400m final
	wF	Omega Timing (2022) - Tokyo 2020 - race analysis - women's 400m final
	100mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mSF, mH, wSF, wH	Henson, T. (2024) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
29-Jul	2021 Japanese High School National Championships (Fukui, JPN)	
	100m mF, wF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 2, 26. (in Japanese)
	200m mF, wF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 4, 28. (in Japanese)
	400m mF, wF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 6, 30. (in Japanese)
	100mH wF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 36. (in Japanese)
	110mH mF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 12. (in Japanese)
	400mH mF, wF	Shibayama, N., Kijima, K., Yamamoto, K., & Onishi, K. (2021). 74th high school championships: JAF scientific committee - biomechanics data collection. p. 14, 38. (in Japanese)
16-Jul	2021 European Athletics U20 Championships (Tallin, EST)	
	400m mF, mSF, wF, wSF	European Athletics (2021). 2021 European athletics U20 championships - results book. p. 23, 26-27, 205, 208-209.
	400mH mF, mSF2, wF, wSF1	European Athletics (2021). 2021 European athletics U20 championships - results book. p. 92, 99, 277, 280
14-Jul	2021 Chinese Student Games (Qingdao, CHN)	
	100mH wF	CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
	400mH wF	CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)

13-Jul	2021 Müller British Grand Prix (Gateshead, GBR)	
	100m mF, wF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/london/are0010040.pdf http://static.sportresult.com/sports/at/data/2021/london/are5010040.pdf
	200m wF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/london/are1020040.pdf
	400m mF, wF, wB	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/london/are4040040.pdf http://static.sportresult.com/sports/at/data/2021/london/are1040040.pdf http://static.sportresult.com/sports/at/data/2021/london/are5040040.pdf
	100mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/london/are1270040.pdf
9-Jul	2021 Herculis Meeting International d'Athlétisme (Monaco, MON)	
	100m mF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/monaco/are0010040.pdf
	200m wF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/monaco/are1020040.pdf
	400mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/monaco/are0270040.pdf
9-Jul	2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)	
	100mH wF (1)	CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
	110mH mF (1)	CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
6-Jul	2021 István Gyulai Memorial (Székesfehérvár, HUN)	
	100mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
4-Jul	2021 Bauhaus Galan (Stockholm, SWE)	
	100m mF, mNatF, wNatF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/stockholm/are0010040.pdf http://static.sportresult.com/sports/at/data/2021/stockholm/are4010040.pdf http://static.sportresult.com/sports/at/data/2021/stockholm/are5010040.pdf
	200m wF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/stockholm/are1020040.pdf
	400m mF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/stockholm/are0040040.pdf
	400mH mF, wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m), wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/stockholm/are0270040.pdf http://static.sportresult.com/sports/at/data/2021/stockholm/are1270040.pdf
1-Jul	2021 Bislett Games (Oslo, NOR)	
	100m mNatF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/oslo/are4010040.pdf
	200m mF	Omega Timing (2021). Diamond League race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2021/oslo/are0020040.pdf
	400mH mF, wF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
30-Jun	2021 Irena Szewinska Memorial (Bydgoszcz, POL)	
	400m wF (mboma)	Vazel, PJ (2021.07.01) Retrieved from https://twitter.com/pjvazel/status/1410310278391140362?s=21
27-Jun	2020 USA Olympic Trials (Eugene, OR)	
	200m wF (thomas)	Vazel, PJ (2021.06.27) Retrieved from https://twitter.com/pjvazel/status/1409396275791994886?s=21
	100mH wF, wSF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF (holloway)	Vazel, PJ (2021.06.27) Retrieved from https://twitter.com/pjvazel/status/1409323602432999426?s=21
	mF, mSF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF (1-4)	Athlete Tracking (2021.06.28). Women's 400mH - Unofficial Split Times. Retrieved from https://twitter.com/athletetracking/status/1409736538364260357?s=21
	mF, mSF, wF, wSF	Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
26-Jun	2021 Jamaican National Championships (Kingston, JAM)	

- 110mH mH1 Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 26.Jun **2021 Japanese National Championships (Osaka, JPN)**
 200m mF, wF Takahasi, K. (2021). Race analysis of domestic 200m and U16 150m in the Tokyo Olympic season. *Bulletin of Studies in Athletics of JAAF*, 17, p 128. (in Japanese)
 400m mF, wF Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 135, 137. (in Japanese)
 100mH wF Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 163. (in Japanese)
 110mH mF Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 151. (in Japanese)
 400mH mF, wF Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 173, 181. (in Japanese)
 wH1 (yamamoto) Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. *Bulletin of Studies in Athletics of JAAF*, 18, p 173. (in Japanese)
- 26.Jun **2021 Japanese U20 National Championships (Osaka, JPN)**
 200m mF, wF Takahasi, K. (2021). Race analysis of domestic 200m and U16 150m in the Tokyo Olympic season. *Bulletin of Studies in Athletics of JAAF*, 17, p 129. (in Japanese)
 400m mF, wF Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 136, 137. (in Japanese)
 100mH wF Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 162. (in Japanese)
 400mH mF, wF Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 173, 181. (in Japanese)
- 25.Jun **2021 Chinese National Championships (Chongqing, CHN)**
 200m wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 100mH wF, wH, wHept CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 110mH mF, mH, mDeca CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 400mH mF, mH, wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 12.Jun **2020 Chinese Olympic Trials (Shaoxing, CHN)**
 200m wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 100mH wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 110mH mF, mH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
 400mH mF, wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 12.Jun **2021 Japanese Multi-Event National Championships (Nagano, JPN)**
 100mH wHept Matsubayashi, T. (2021). 100m hurdles race analysis of heptathletes in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 205. (in Japanese)
 110mH mDec Matsubayashi, T. (2021). 110m hurdling race analysis of decathlon athletes in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 208. (in Japanese)
- 11.Jun **2021 NCAA Championships (Eugene, OR)**
 400m wF (mu) Vazel, PJ (2021.06.13) Retrieved from <https://twitter.com/pjvazel/status/1403991035081023493?s=21>
 100mH wF, wSF2 Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH mF, wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 10.Jun **2021 Golden Gala Pietro Mennea (Florence, ITA)**
 100m mF Omega Timing (2021). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/rome/are0010040.pdf>
 200m wF Omega Timing (2021). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/rome/are1020040.pdf>
 400m mF Omega Timing (2021). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/rome/are0040040.pdf>
 100mH wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 wF (200m) Omega Timing (2020) Diamond League Race Analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/rome/are1270040.pdf>
- 7.Jun **2021 Josef Odložil Memorial (Prague, CZE)**
 200m wF (mboma) Vazel, PJ (2021.06.8) Retrieved from <https://twitter.com/pjvazel/status/1401965630484529154?s=21>
- 6.Jun **2021 Fanny Blankers Koen Games (Hengelo, NED)**
 100mH wF (camacho-quinn) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6.Jun **2021 Music City Track Carnival (Nashville, TN)**
 400mH wF (mclaughlin) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

- 6.Jun **2021 Fuse Sprint (Tottori, JPN)**
 100m mF Miyashiro, K. (2021.06.21) Retrieved from https://twitter.com/miyashiro_kenji/status/1405866149754019845?s=21
 100mH wF Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 161. (in Japanese)
 110mH mF Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 150. (in Japanese)
- 6.Jun **2021 Denka Athletics Challenge Cup (Niigata, JPN)**
 400m mF, mB, mC, wF Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 135, 137. (in Japanese)
 400mH mF, mB, mC, wF, wB, wC Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 172, 180. (in Japanese)
- 4.Jun **2021 Bislett Night of Highlights (Oslo, NOR) (300m Hurdles)**
 300mH mF Henson, T. (2021) *Athlete First: 2021 year end hurdle report*. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 1.Jun **2021 Michitaka Kinami Memorial (Osaka, JPN)**
 100mH wF, wH1 (tereda) Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 160. (in Japanese)
 110mH mF Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. *Bulletin of Studies in Athletics of JAAF*, 17, p 150. (in Japanese)
 400mH mF, mB, mC, wF, wB Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. *Bulletin of Studies in Athletics of JAAF*, 17, p 171, 179. (in Japanese)
- 29.May **2021 NCAA Preliminary West Round (College Station, TX)**
 400m wQF2 (mu) Vazel, PJ (2021.05.30) Retrieved from <https://twitter.com/pjvazel/status/1398782574131023879?s=21>
- 29.May **2021 NCAA Championships Preliminary East Round (Jacksonville, FL)**
 100mH wQF1 Henson, T. (2021) *Athlete First: 2021 year end hurdle report*. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 29-May **2021 Shimane High School Championships (Izumo, JPN)**
 100m mF, wF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 2 & 4. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
 200m mF, wF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 6 & 8. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
 400m mF, wF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 10 & 12. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
 100mH wF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 18. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
 110mH mF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 20. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
 400mH mF, wF Shimizu, Y. (2021). Shimane high school championships 2021, *Biomechanics data analysis*. p. 22 & 24. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/027/611/109d3fca623ef99d54a80eeca8f304a90d52a19/最終報告2021.pdf?1622429366
- 28.May **2021 Doha Diamond League (Doha, QAT)**
 100m mF Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are4010040.pdf>
 wF Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are1010040.pdf>
 200m mF Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are0020040.pdf>
 400m mF Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are0040040.pdf>
 mBF Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are4040040.pdf>
 400mH mF, mBF Henson, T. (2021) *Athlete First: 2021 year end hurdle report*. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 mF, mB (200m) Omega Timing (2020) *Diamond League Race Analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/doha/are0270040.pdf>
<http://static.sportresult.com/sports/at/data/2021/doha/are4270040.pdf>
- 23.May **2021 Müller Grand Prix (Gateshead, GBR)**
 100m wH1 Omega Timing (2021). *Diamond League race analysis*. Retrieved from <http://static.sportresult.com/sports/at/data/2021/gateshead/are1010001.pdf>

- 200m mF Omega Timing (2021). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/gateshead/are0020040.pdf>
- 400m wF Omega Timing (2021). Diamond League race analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2021/gateshead/are1040040.pdf>
- 100mH wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 23.May **2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 19.May **2021 Philippe Cup Athletics Invitational (Wuhan, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
110mH mF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
400mH mF, wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 15.May **2021 South Eastern Conference Championships (College Station, TX)**
400m mF (godwin) Vazel, PJ (2021.05.16) Retrieved from <https://twitter.com/pjvazel/status/1393829441172803591?s=21>
- 15.May **2021 Happy Chengdu Meeting (Chengdu, CHN)**
110mH mF (zhu) Jiang W. (2022). Research on pre-competition training of Zhu Shenglong preparing for the 14th national games. (Dissertation) Wuhan Institute of Physical Education. p. 12. (in Chinese)
- 15.May **2021 Central China Athletics Meeting (Ji'an, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 11.May **2021 Central China Athletics Meeting (Ji'an, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 9.May **2021 USATF Golden Games (Walnut, CA)**
100mH wF Henson, T. (2021) Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
400mH mF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 9.May **2021 Ready Steady Tokyo (Tokyo, JPN)**
200m mF, wF Takahasi, K. (2021). Race analysis of domestic 200m and U16 150m in the Tokyo Olympic season. Bulletin of Studies in Athletics of JAAF, 17, p 127. (in Japanese)
400m mF, wF Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. Bulletin of Studies in Athletics of JAAF, 17, p 134, 136. (in Japanese)
100mH wF Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 159. (in Japanese)
110mH mF Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 149. (in Japanese)
400mH mF, wF Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. Bulletin of Studies in Athletics of JAAF, 17, p 170, 178. (in Japanese)
- 3-May **2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
400m mF, mB, wF, wB Yamanaka, R. (2021). Race analysis of men's and women's 400m and 300m races in 2021 competition. Bulletin of Studies in Athletics of JAAF, 17, p 134, 136. (in Japanese)
400mH mF, mB, mC, wF, wB Sugimoto, K. (2021). Race analysis of men's and women's 400m hurdles in the 2021 competition. Bulletin of Studies in Athletics of JAAF, 17, p 169, 177. (in Japanese)
- 29-Apr **2021 Mikio Oda Memorial (Hiroshima, JPN)**
100mH wF Onishi, K. (2021). Race analysis of the domestic first-class women's 100m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 158. (in Japanese)
110mH mF Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 149. (in Japanese)
- 24-Apr **2021 USATF Grand Prix (Eugene, OR)**
100mH wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 24-Apr **2021 East China District Meeting (Zhaoqing, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
110mH mF, mH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
400mH mF, mH, wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 17-Apr **2021 Tom Jones Invitational (Gainesville, FL)**
100mH wF (camacho-quinn) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
110mH mF (holloway) Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 16-Apr **2021 Bryan Clay Invitational (Azusa, CA)**
100mH wF (mclaughlin) Henson, T. (2021) Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 11-Apr **2021 International All Comers Meeting (Lusaka, ZAM)**
400m wF Vazel, PJ (2021.04.14) Retrieved from <https://twitter.com/pjvazel/status/1382341180789231617?s=21>
- 8-Apr **2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)**
100mH wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
110mH mF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 2-Apr **2021 National Grand Prix (Chengdu, CHN)**
100mH wF, wH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
110mH mF, mH CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
400mH mF, wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
- 18.Mar **2021 National Indoor Grand Prix (Jinan, CHN)**
60mH mF, wF CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)

- 13.Mar **2021 NCAA Indoor Championships (Fayetteville, AR)**
60mH mF Track Newsletter (2021). NCAA men's indoor championships. Track e-Newsletter 19(15). p. 115.
wF Track Newsletter (2021). NCAA women's indoor championships. Track e-Newsletter 19(15). p. 121.
- 13.Mar **2021 National Indoor Grand Prix (Chengdu, CHN)**
60mH mAF, mBF, wAF, CAA Hurdle Development (2021): Final 2021 year end report (in Chinese)
wBF, wH
- 7.Mar **2021 European Indoor Championships (Toruń, POL) (TV Analysis)**
60mH mF, wF Henson, T. (2021) Athlete First: 2021 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 24-Feb **2021 Villa de Madrid (Madrid, ESP)**
60mH mF (holloway) Vazel, P.J. (2021.02.25) Retrieved from <https://twitter.com/pjvazel/status/1364677209525485569>
mF, mH Henson, T. (2021) Athlete First: 2021 Grant Holloway world indoor record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 17-Feb **2021 Copernicus Cup (Toruń, POL) (TV Analysis)**
60mH mF Henson, T. (2021) Athlete First: 2021 Grant Holloway world indoor record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 14-Feb **2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)**
60mH mF, mH Henson, T. (2021) Athlete First: 2021 Grant Holloway world indoor record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 9-Feb **2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA)**
60mH mF (holloway) Vazel, P.J. (2021.02.10) Retrieved from <https://twitter.com/pjvazel/status/1359286403834724356>
mF, mH Henson, T. (2021) Athlete First: 2021 Grant Holloway world indoor record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-Feb **2021 Meeting Elite en Salle de Metz (Metz, FRA)**
60mH mF, mH (belocian) Vazel, P.J. (2021.02.10) Retrieved from <https://twitter.com/pjvazel/status/1358428540241399810>
- 24-Jan **2021 American Track League 1 (Fayetteville, AR) (TV Analysis)**
60mH mF, mH Henson, T. (2021) Athlete First: 2021 Grant Holloway world indoor record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
-
- 25-Oct **2020 Japanese U20 National Championships (Hiroshima, JPN)**
100m mF, mH, wF Kobayashi, K. (2020). National high school and U20 national championships. Bulletin of Studies in Athletics of JAAF, 16, p 106. (in Japanese)
200m mF, mH, wF Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 96, 107. (in Japanese)
400m mF, mH, wF Kobayashi, K. (2020). National high school and U20 national championships. Bulletin of Studies in Athletics of JAAF, 16, p 108. (in Japanese)
400mH mF, mBF, wF Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 185, 192. (in Japanese)
- 25-Oct **2020 Japanese High School National Championships (Hiroshima, JPN)**
100m mF, mH, wF Kobayashi, K. (2020). National high school and U20 national championships. Bulletin of Studies in Athletics of JAAF, 16, p 106. (in Japanese)
200m mF, mH, wF Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 95, 107. (in Japanese)
400m mF, mH, wF Kobayashi, K. (2020). National high school and U20 national championships. Bulletin of Studies in Athletics of JAAF, 16, p 108. (in Japanese)
400mH mF, wF Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 186, 193. (in Japanese)
- 24-Oct **2020 Michitaka Kinami Memorial (Osaka, JPN)**
100mH wF Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. Bulletin of Studies in Athletics of JAAF, 16, p 164. (in Japanese)
110mH mF Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 153. (in Japanese)
400mH mF, mBF, wF, wBF, Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 184, 191. (in Japanese)
wCF
- 2-Oct **2020 Japanese National Championships (Niigata, JPN)**
100m mF, mH Ohunma, H. (2020). Men's 100m race analysis at major competitions in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 84, 86. (in Japanese)
wF Takahashi, W., (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. Bulletin of Studies in Athletics of JAAF, 17, p 114. (in Japanese)
200m mF, wF Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 94. (in Japanese)
wF Hirokawa, R. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 80. (in Japanese)
400m mF, mH, wF, wH Yamanaka, R. (2020). 400m race analysis of men and women during 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 118, 120. (in Japanese)
100mH wF Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. Bulletin of Studies in Athletics of JAAF, 16, p 163. (in Japanese)
110mH mF, mH Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 153, 155. (in Japanese)
400mH mF, wF Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 183, 190. (in Japanese)
- 26-Sep **2020 Japanese Multi-Event National Championships (Nagano, JPN)**

- 100m mDec H3, mDec H1 Matsubayashi, T. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 67. (in Japanese)
- 200m wHept H3 Matsubayashi, T. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 71. (in Japanese)
- 400m mDec H3, mDec H1 Matsubayashi, T. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 68. (in Japanese)
- 100mH wHept H3 Matsubayashi, T. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 72. (in Japanese)
- 110mH mDec H3, mDec H2 Matsubayashi, T. (2020) - Research on athlete performance and technique- 2020 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 69. (in Japanese)
- 25-Sep **2020 Doha Diamond League (Doha, QAT)**
- 200m mF Omega Timing (2020) Diamond League Race Analysis. Retrieved from <https://static.sportresult.com/sports/at/data/2020/doha/are0020040.pdf>
- 100mH wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 20-Sep **2020 Norweigen National Championships (Bergen, NOR)**
- 400mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 20-Sep **2020 All Japan Corporate Championships (Kumagaya, JPN)**
- 100m mF Ohunma, H. (2020). Men's 100m race analysis at major competitions in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 84. (in Japanese)
- wF, wB Takahashi, W.. (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. Bulletin of Studies in Athletics of JAAF, 17, p 114. (in Japanese)
- 200m mF, wF Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. Bulletin of Studies in Athletics of JAAF, 16, p 93. (in Japanese)
- 400m mF, wF Yamanaka, R. (2020). 400m race analysis of men and women during 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 117, 119. (in Japanese)
- 100mH wF Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. Bulletin of Studies in Athletics of JAAF, 16, p 162. (in Japanese)
- 110mH mF, mH2 Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 152. (in Japanese)
- 400mH mF, wF Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 182, 189. (in Japanese)
- 17-Sep **2020 Golden Gala Pietro Mennea (Rome, ITA)**
- 100m mF, wF Omega Timing (2020) Diamond League Race Analysis. Retrieved from <https://static.sportresult.com/sports/at/data/2020/rome/are0010040.pdf>
- 400m wF Omega Timing (2020) Diamond League Race Analysis. Retrieved from <https://static.sportresult.com/sports/at/data/2020/rome/are1010040.pdf>
- 100mH wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF, wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- mF (200m), wF (200m) Omega Timing (2020) Diamond League Race Analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2020/rome/are0270040.pdf>
- <http://static.sportresult.com/sports/at/data/2020/rome/are1270040.pdf>
- 16-Sep **2020 Chinese National Championships (Shaoxing, CHN)**
- 100mH wF CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
- 110mH mF CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
- 400mH mF, wF CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
- 15-Sep **2020 Galà dei Castelli (Bellinzona, SUI)**
- 100mH wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-Sep **2020 French National Championships (Albi, FRA)**
- 100mH wF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-Sep **2020 ISTAF (Berlin, GER)**
- 400mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 8-Sep **2020 Golden Spike (Ostrava, CZE)**
- 400mH mF Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-Sep **2020 World Athletics Trials (Fuji, JPN)**

	100m	mR1, mR2	Ohunma, H. (2020). Men's 100m race analysis at major competitions in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 84. (in Japanese)
		wR2, wH1	Takahashi, W., (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 113. (in Japanese)
	200m	mR3, wR2	Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 93. (in Japanese)
	400m	mF (2), wF (aoyama)	Yamanaka, R. (2020). 400m race analysis of men and women during 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 117, 119. (in Japanese)
	100mH	wR2	Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 161. (in Japanese)
	110mH	mR2	Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 152. (in Japanese)
	400mH	mF, mBF	Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 181. (in Japanese)
4-Sep	2020 Memorial Van Damme (Brussels, BEL)		
	100m	wF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/brussels/are1010040.pdf
	200m	mF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/brussels/are0020040.pdf
	400m	wF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/brussels/are1040040.pdf
	100mH	wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
3-Sep	2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA)		
	110mH	mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
29-Aug	2020 Athlete Night Games (Fukui, JPN)		
	100m	mF, mH2	Ohunma, H. (2020). Men's 100m race analysis at major competitions in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 84. (in Japanese)
		wF	Takahashi, W., (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 113. (in Japanese)
	200m	mF	Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 92. (in Japanese)
	100mH	wF	Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 160. (in Japanese)
	110mH	mF, mH	Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 151, 155. (in Japanese)
23-Aug	2020 Bauhaus Galan (Stockholm, SWE)		
	100m	wF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/stockholm/are1010040.pdf
	200m	mF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/stockholm/are0020040.pdf
	400m	mF, wF	Omega Timing (2020) Diamond League Race Analysis. Retrieved from https://static.sportresult.com/sports/at/data/2020/stockholm/are0040040.pdf
	100mH	wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH	mF, wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
		mF (200m), wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2020/stockholm/are0270040.pdf
			http://static.sportresult.com/sports/at/data/2020/stockholm/are1270040.pdf
23-Aug	2020 Seiko Golden Grand Prix (Tokyo, JPN)		
	100m	mH	Ohunma, H. (2020). Men's 100m race analysis at major competitions in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 84. (in Japanese)
		wF	Takahashi, W., (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. <i>Bulletin of Studies in Athletics of JAAF</i> , 17, p 113. (in Japanese)
	200m	mF	Takahashi, K. (2020). 200m race analysis of top japanese sprinters in 2020. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 92. (in Japanese)
	400m	mF, wF	Yamanaka, R. (2020). 400m race analysis of men and women during 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 117, 119. (in Japanese)
	100mH	wF	Kijima, K. (2020). Race analysis of 2020 top domestic japanese 100m hurdlers. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 159. (in Japanese)
	110mH	mF	Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 151. (in Japanese)
	400mH	mF, wF	Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 180, 188. (in Japanese)
19-Aug	2020 István Gyulai Memorial (Székesfehérvár, HUN)		
	100mH	wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH	mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)

	400mH wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
14-Aug	2020 Herculis Meeting International d'Athletisme (Monaco, MON)	
	110mH mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
14-Aug	2020 Finnish National Championships (Turku, FIN)	
	100mH wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
11-Aug	2020 Paavo Nurmi Games (Turku, FIN)	
	100mH wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
19-Jul	2020 CAA Shanghai Training Base Permit Meeting (Shanghai, CHN)	
	110mH mF (xie)	Shanghai Sport Institute (2020) - competition analysis
11-Jul	2020 Shimane High School Championships (Izumo, JPN)	
	100m mF, wF	Shimizu, Y. (2020). Shimane high school championships 2020, Biomechanics data analysis. p. 2 & 4. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
	200m mF, wF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 6 & 8. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
	400m mF, wF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 10 & 12. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
	100mH wF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 20. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
	110mH mF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 18. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
	400mH mF, wF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 22 & 24. (in Japanese). Retrieved from https://www.shimariku.jp/_assets/page_files/files/000/022/508/56b190a53ba2c37db52146b950844704dd73130c/2020バイオメカニクスデータ.pdf?1594714992
9-Jul	2020 Inspiration Games (Zürich, SUI)	
	400mH wF (300m)	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
8-Jul	2020 Motonet GP (Jyväskylä, FIN)	
	100mH wF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
11-Jun	2020 Impossible Games (Oslo, NOR)	
	400mH mF (300m), wF (300m)	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
15-Feb	2020 USA TF Indoor National Championships (Albuquerque, NM) (Altitude)	
	60mH mF, mSF, mH, wF, wH	CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
14-Feb	2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)	
	60mH mF, mSF, mH, wF, wSF, wH	CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
8-Feb	2020 Millrose Games (New York, NY)	
	60m mF, wF, wU18F	PrimeTime Timing (2020.02.08) Retrieved from http://results.nyrrmillrosegames.org/
	60mH wF	PrimeTime Timing (2020.02.08) Retrieved from http://results.nyrrmillrosegames.org/
	mF	Henson, T. (2020) Athlete First: 2020 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
1-Feb	2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)	
	60mH mF, mH, wF, wH	CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
25-Jan	2020 New Balance Indoor Grand Prix (Boston, MA)	
	60m mF	PrimeTime Timing (2020.01.26) Retrieved from https://results.nbindoorgrandprix.com/
	60mH wF, wH	PrimeTime Timing (2020.01.26) Retrieved from https://results.nbindoorgrandprix.com/
17-Jan	2020 Leonard Hilton Memorial Invitational (Houston, TX)	
	60mH mF, mH, wF, wH	CAA Hurdle Development (2020): Final 2020 year end report (in Chinese)
20-Oct	2019 Japanese National U18/U20 Championships (Hiroshima, JPN)	

	200m mU20F, mU18F, wU20F, wU18F	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 201-204. (in Japanese)
	300m mU18F, wU18F	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 205, 206. (in Japanese)
	400m mU20F, wU20F	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 207, 208. (in Japanese)
	100mH wU20F, wU18F	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 210. (in Japanese)
	110mH mU20F, mU18F	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 209. (in Japanese)
5-Oct	2019 National Sports Festival (Hitachinaka, JPN)	
	100m mF, mU20F, mU18F, wF, wU20F, wU18F	Enomoto (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 183. (in Japanese)
	100mH wF	Enomoto (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 185. (in Japanese)
	110mH mF	Enomoto (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 184. (in Japanese)
	400mH mF(1), wF(1)	Enomoto (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 186. (in Japanese)
	wU18F (yamamoto)	Wanami, S. (2023). Race analysis of the men's and women's 400m hurdles in the 2022 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 18, p 173. (in Japanese)
2-Oct	2019 IAAF World Championships (Doha, QAT)	
	100m mF, mSF(1), mH(1)	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 133. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 140. (in Japanese)
	mF	Pang L. (2021). Kinematic analysis of key technical links of eight athletes in men's 100m final of 2019 Doha world championships. (Dissertation). Capital College of Physical Education. p. 24 (in Chinese)
	200m mF, mH (JPN), wF	Takahashi, K. (2019). Race analysis of top 200m athletes: Focusing on major domestic and international competitions. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 156. (in Japanese)
	400m mF, mSF, wF, wSF	Yamanaka, R. (2019) Race analysis of men and women 400m competition. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 163, 166. (in Japanese)
	100mH wF, wSF3	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	wSF2, wSF3	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wH (terada)	TFData-Store (2019.12.20) Retrieved from http://tfdata-store.com/2019/09/02/post-1606/ (in Japanese)
	wH, wHept	Henson, T. (2021) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF, mSF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mH (JPN)	Shibayama, K. (2019). Race analysis of men's 110m hurdles in the 2019 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 222. (in Japanese)
	mH2 (braithwaite), mH5 (ortega)	Shibayama, I. (2020). Race analysis of men's 110m hurdles in the 2020 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 16, p 155. (in Japanese)
	mH, mDeca	Henson, T. (2021) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mf, mSF	Kakehata, G. (2019). Race analysis of men's 400m hurdles at the 2019 IAAF World Championships Doha: Considerations of Japanese athletes challenges toward the Tokyo Olympic Games. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 120, 122. (in Japanese)
	wF (muhammad)	Sugimoto, K. (2019). World championship competition performance analysis: Women's hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 19. (in Japanese)
	wF, wSF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mH, wH	Henson, T. (2021) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
9-Sep	2019 The Match - Europe v USA (Minsk, BLR)	
	100m mF, wF	European Athletics (2019). The Match - race analysis. (https://www.european-athletics.org/externalmodules/AT/pdf/ATM001101_C77A.pdf) (https://www.european-athletics.org/externalmodules/AT/pdf/ATW001101_C77A.pdf)
	200m mF, wF	European Athletics (2019). The Match - race analysis. (https://www.european-athletics.org/externalmodules/AT/pdf/ATM002101_C77A.pdf) (https://www.european-athletics.org/externalmodules/AT/pdf/ATW002101_C77A.pdf)
	400m mF, wF	European Athletics (2019). The Match - race analysis. (https://www.european-athletics.org/externalmodules/AT/pdf/ATM004101_C77A.pdf) (https://www.european-athletics.org/externalmodules/AT/pdf/ATW004101_C77A.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)

6-Sep	2019 Memorial van Damme (Brussels, BEL)	
	100m wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/brussels/are1010040.pdf)
	200m mF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/brussels/are0020040.pdf)
	400m mF, mNatF, wNatF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/brussels/are0040040.pdf) (http://static.sportresult.com/sports/at/data/2019/brussels/are6040040.pdf) (http://static.sportresult.com/sports/at/data/2019/brussels/are7040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
1-Sep	2019 Japanese World Championships Trials (Fujiyoshida, JPN)	
	100m mF (2)	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
	400m mF	Yamanaka, R. (2019) Race analysis of men and women 400m competition. Bulletin of Studies in Athletics of JAAF, 15, p 163. (in Japanese)
	100mH wF	Kijima, K. (2019). Race analysis of 100m hurdles of top-ranked women in 2019 major Japanese and international competitions. Bulletin of Studies in Athletics of JAAF, 15, p 212. (in Japanese)
	110mH mF	Shibayama, K. (2019). Race analysis of men's 110m hurdles in the 2019 season. Bulletin of Studies in Athletics of JAAF, 15, p 222. (in Japanese)
1-Sep	2019 ISTAF (Berlin, GER)	
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
29-Aug	2019 Weltklasse (Zürich, SUI)	
	100m mF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/zurich/are0010040.pdf)
	200m wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/zurich/are1020040.pdf)
	400m wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/zurich/are1040040.pdf)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m), wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/zurich/are0270040.pdf http://static.sportresult.com/sports/at/data/2019/zurich/are1270040.pdf
24-Aug	2019 Meeting de Paris (Paris, FRA)	
	100m wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/paris/are1010040.pdf)
	200m mF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/paris/are0020040.pdf)
	400m wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/paris/are1040040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/paris/are0270040.pdf
24-Aug	2019 Chinese National Grand Prix Final (Daqing, CHN)	
	100mH wF, wH, wHept	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF, mH, mDec	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF, mH, wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
18-Aug	2019 Müller Grand Prix (Birmingham, GBR)	
	100m mF, mH, wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/birmingham/are0010040.pdf) (http://static.sportresult.com/sports/at/data/2019/birmingham/are0010002.pdf) (http://static.sportresult.com/sports/at/data/2019/birmingham/are0010001.pdf) (http://static.sportresult.com/sports/at/data/2019/birmingham/are5010040.pdf)
	200m wF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/birmingham/are1020040.pdf)
	400m mF	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from (http://static.sportresult.com/sports/at/data/2019/birmingham/are0040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m)	Omega Timing (2019). IAAF diamond league race analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/birmingham/are0270040.pdf

- 17-Aug **2019 Athlete Night Games (Fukui, JPN)**
 100mH wF (terada) TFData-Store (2019.12.20) Retrieved from <http://tfdata-store.com/2019/09/02/post-1606/> (in Japanese)
 110mH mF (takayama) TFData-Store (2019.12.20) Retrieved from <http://tfdata-store.com/2019/09/03/post-1615/> (in Japanese)
- 14-Aug **2019 Chinese National Youth Games (Taiyuan, CHN)**
 100mH wU20F, wU20H, wU18F CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 110mH mU20F, mU20H, mU18F CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 400mH mU20F, mU20H, mU18F, wU20F, wU20H, wU18F CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
- 8-Aug **2019 Pan American Games (Lima, PER)**
 100mH wF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH mF, wF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 7-Aug **2019 Japanese National High School Championships (Okinawa, JPN)**
 100m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 2, 32. (in Japanese)
 200m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 4, 34. (in Japanese)
 400m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 6, 36. (in Japanese)
 100mH wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 44. (in Japanese)
 110mH mF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 14. (in Japanese)
 400mH mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2019). 7nd high school championships: JAF scientific committee - biomechanics data collection. p. 16, 46. (in Japanese)
- 2-Aug **2019 Norwegian National Championships (Hamar, NOR)**
 400mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 2-Aug **2019 Chinese World Championships Trials (Shenyang, CHN)**
 100m mF Jiang Z. (2019). Data analysis of men's sprint finals in the Chinese world championships trials. CAA Sport Science, Beijing, CHN. (unpublished report). (in Chinese)
 wF Jiang Z. (2019). Data analysis of women's sprint finals in the Chinese world championships trials. CAA Sport Science, Beijing, CHN. (unpublished report). (in Chinese)
 200m mF Jiang Z. (2019). Data analysis of men's sprint finals in the Chinese world championships trials. CAA Sport Science, Beijing, CHN. (unpublished report). (in Chinese)
 wF Jiang Z. (2019). Data analysis of women's sprint finals in the Chinese world championships trials. CAA Sport Science, Beijing, CHN. (unpublished report). (in Chinese)
 100mH wF, wH CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 110mH mF, mH CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 400mH mF, mH, wF, wH CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
- 28-Jul **2019 USATF National Championships (Des Moines, IA)**
 200m mF Track Newsletter (2019). USATF championships men. Track e-Newsletter 17(52). p. 287.
 400m mF Track Newsletter (2019). USATF championships men. Track e-Newsletter 17(52). p. 288.
 wF Track Newsletter (2018). USATF championships women. Track e-Newsletter 17(53). p. 297.
 100mH wF, wH Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH wF (muhammad) Vazel, P.J. (2019). Statistical analysis and historical context of the new 400H world record. <https://altis.world/articles/statistical-analysis-and-historical-context-of-the-new-400h-world-record/>
 wF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 27-Jul **2019 Corporate Team vs College Team (Hiratsukai, JPN)**
 100mH wF (terada) TFData-Store (2019.12.20) Retrieved from <http://tfdata-store.com/2019/09/02/post-1606/> (in Japanese)
 110mH mF (takayama) TFData-Store (2019.12.20) Retrieved from <http://tfdata-store.com/2019/09/03/post-1615/> (in Japanese)
- 21-Jul **2019 Müller Anniversary Games (London, GBR)**
 100m mF (koike) Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
 400m mF Omega Timing (2019). IAAF diamond league race analysis. (<http://static.sportresult.com/sports/at/data/2018/london/are0040040.pdf>)
 100mH wF, wH1 Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH mF, wF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

	mF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/london/are4270040.pdf
12-Jul	2019 Herculis Meeting International d'Athlétisme (Monaco, MON)	
	100m mF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/monaco/are0010040.pdf)
	200m wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/monaco/are1020040.pdf)
	400m mF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/monaco/are0040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/monaco/are1270040.pdf
11-Jul	2019 Chinese National Championships (Shenyang, CHN)	
	100mH wF, wH, wHept	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF, mH, mDec	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF, mH, wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
5-Jul	2019 Athletissima (Lausanne, SUI)	
	100m mF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/lausanne/are4010040.pdf)
	200m mF, wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/lausanne/are0020040.pdf)
	400m wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/lausanne/are5020040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/lausanne/are1270040.pdf
30-Jun	2019 Prefontaine Classic (Stanford, CA)	
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
30-Jun	2019 Japanese National Championships (Fukuoka, JPN)	
	100m mF(2), mSF(3)	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 140. (in Japanese)
	200m mF, wF	Yamanaka (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 103, 104. (in Japanese)
	400m mF, wF	Yamanaka (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 105, 106. (in Japanese)
	mH, wH	Yamanaka, R. (2019) Race analysis of men and women 400m competition. Bulletin of Studies in Athletics of JAAF, 15, p 162, 165. (in Japanese)
	100mH wF	Yamanaka (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 112. (in Japanese)
	110mH mF	Yamanaka (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 111. (in Japanese)
	400mH mF, wF	Yamanaka (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 113, 114. (in Japanese)
29-Jun	2019 Japan-Korea-China U20 Games (Changsha City, CHN)	
	100mH wF (fukube)	Aoki, H. (2023). Domestic & foreign first-class women's 100m hurdles in the 2022 season. Bulletin of Studies in Athletics of JAAF, 18, p 160. (in Japanese)
16-Jun	2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)	
	400m wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/rabat/are1040040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
16-Jun	2019 Orlen Janusz Kosciński Memorial (Chorzów, POL)	
	400m wF (muhammad)	Vazel, P.J. (2019). Statistical analysis and historical context of the new 400H world record. https://altis.world/articles/statistical-analysis-and-historical-context-of-the-new-400h-world-record/
13-Jun	2019 Bislett Games (Oslo, NOR)	
	400m mNatF, wNatF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/oslo/are6040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)

	400mH mF, wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m), wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/oslo/are0270040.pdf http://static.sportresult.com/sports/at/data/2019/oslo/are1270040.pdf
8-Jun	2019 Japanese National Multi-Event Championships (Nagano, JPN)	
	100m mDec	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 89. (in Japanese)
	200m wHep	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 93. (in Japanese)
	400m mDec	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 90. (in Japanese)
	100mH wHep	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 94. (in Japanese)
	110mH mDec	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 91. (in Japanese)
7-Jun	2019 NCAA National Championships (Austin, TX)	
	200m mF	Track Newsletter (2019). NCAA men's championships. Track e-Newsletter 17(38). p. 220.
	400m mF	Track Newsletter (2019). NCAA men's championships. Track e-Newsletter 17(38). p. 221.
	wF	Track Newsletter (2019). NCAA women's championships. Track e-Newsletter 17(39). p. 231.
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF, mSF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
7-Jun	2019 Asian Grand Prix 2 (Chongqing, CHN)	
	100mH wF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
6-Jun	2019 Golden Gala Pietro Mennea (Rome, ITA)	
	400m wF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/rome/are1040040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
4-Jun	2019 Asian Grand Prix 1 (Chongqing, CHN)	
	100mH wF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
2-Jun	2019 Fuse Sprint (Tottori, JPN)	
	100m mF(1)	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 147. (in Japanese)
	100mH wF	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 86. (in Japanese)
	110mH mF	Kijima (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 85. (in Japanese)
30-May	2019 Bauhaus Galan (Stockholm, SWE)	
	400m mF	Omega Timing (2019). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2019/stockholm/are0040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/stockholm/are0270040.pdf
30-May	2019 Chinese National Grand Prix 4 (Luoyang, CHN)	
	100mH wF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF, wF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
25-May	2019 NCAA Championships - East Preliminary Round (Jacksonville, FL)	
	110mH mQF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
25-May	2019 Shimane High School Championships (Izumo, JPN)	
	100m mF, wF	Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 3 & 5. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562

- 200m mF, wF Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 7 & 9. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562
- 400m mF, wF Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 13 & 15. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562
- 100mH wF Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 21. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562
- 110mH mF Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 19. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562
- 400mH mF, wF Shimizu, Y. (2019). Shimane high school championships 2019, Biomechanics data analysis. p. 23 & 25. (in Japanese). Retrieved from https://www.shimariiku.jp/_assets/page_files/files/000/017/170/1ed993ddc2c9885687df33d60592a1caa2acb747/2019バイオメカニクスデータ分析.pdf?1559113562
- 23-May **2019 Chinese National Grand Prix 3 (Jinhau, CHN)**
 100mH wF CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 110mH mF CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
- 21-May **2019 Nanjing World Challenge (Nanjing, CHN)**
 100mH wF CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 110mH mF CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 400mH mF (feng) CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
- 19-May **2019 Seiko Golden Grand Prix (Osaka, JPN)**
 100m mF Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
 wF Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 146. (in Japanese)
 200m mF, wF Hirokawa (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 71, 72. (in Japanese)
 400m mF Hirokawa (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 73. (in Japanese)
 100mH wF Kijima, K. (2019). Race analysis of 100m hurdles of top-ranked women in 2019 major Japanese and international competitions. Bulletin of Studies in Athletics of JAAF, 15, p 204. (in Japanese)
 110mH mF Shibayama, K. (2019). Race analysis of men's 110m hurdles in the 2019 season. Bulletin of Studies in Athletics of JAAF, 15, p 219. (in Japanese)
 400mH mF, wF Hirokawa (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 74, 75. (in Japanese)
- 18-May **2019 Shanghai Diamond League (Shanghai, CHN)**
 400m mF, wF Omega Timing (2019). IAAF diamond league race analysis. (<http://static.sportresult.com/sports/at/data/2019/shanghai/are0040040.pdf>) (<http://static.sportresult.com/sports/at/data/2019/shanghai/are1040040.pdf>)
 110mH mF CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 400mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 mF (feng) CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
 mF (200m) Omega Timing (2020) Diamond League Race Analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2019/shanghai/are0270040.pdf>
- 11-May **2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)**
 Shuttle F (CHN) CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
- 11-May **2019 SEC Championships (Fayetteville, AR)**
 100m mF (sani brown) TFData-Store (2019.12.20) Retrieved from tfdata-store.com/2019/05/19/post-1581/ (in Japanese)
 110mH mF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 6-May **2019 Kinami Memeorial (Osaka, JPN)**
 100mH wF Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 46. (in Japanese)
 110mH mF Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 45. (in Japanese)
 400mH mAF, mBF, wAF, wBF Matsubayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 47, 48. (in Japanese)
- 3-May **2019 Doha Diamond League (Doha, QAT)**
 400m mNatF Omega Timing (2019). IAAF diamond league race analysis. (<http://static.sportresult.com/sports/at/data/2019/doha/are6040040.pdf>)
 100mH wF Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

	400mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2019/doha/are1270040.pdf
3-May	2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)	
	200m mAF, mBF, mCF, wAF, wBF, wCF	Kobayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 33, 34. (in Japanese)
	400m mAF, mBF,	Kobayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 35, 36. (in Japanese)
	400mH mAF, mBF, mCF, mDF, wAF, wBF, wCF	Kobayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 39, 40. (in Japanese)
28-Apr	2019 Mikio Oda Memorial (Hiroshima, JPN)	
	100m mF	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 146. (in Japanese)
	100mH wAF, wBF	Kobayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 23, 24. (in Japanese)
	110mH mAF, mBF	Kobayashi (2019) - research on athlete performance and technique- 2019 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 21, 22. (in Japanese)
24-Apr	2019 Asian Athletics Championships (Doha, QAT)	
	100m mF	Hayato, O. (2019). Race analysis of men's 100m at major comeptions in 2019. Bulletin of Studies in Athletics of JAAF, 15, p 133. (in Japanese)
	200m mF (koike), wH (2)	Takahashi, K. (2019). Race analysis of top 200m athletes: Focusing on major domestic and international competitions. Bulletin of Studies in Athletics of JAAF, 15, p 154. (in Japanese)
	400m mF, mSF, wF	Yamanaka, R. (2019) Race analysis of men and women 400m competition. Bulletin of Studies in Athletics of JAAF, 15, p 159, 164. (in Japanese)
	100mH wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF, mH (CHN)	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF (2), mH (CHN), wF (CHN), wH (CHN)	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mF (abe)	Sugimoto, K. (2020). Race pattern analysis of japan's top male and female 400m hurdlers- 2020 season. Bulletin of Studies in Athletics of JAAF, 16, p 167. (in Japanese)
13-Apr	2019 Chinese National Grand Prix 2 (Huangshi, CHN)	
	100mH wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF, mH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF, wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
9-Apr	2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)	
	100mH wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	110mH mF, mH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	400mH mF, wF, wH	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
20-Mar	2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)	
	60mH wAF, wBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mAF, mBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
9-Mar	2019 NCAA Indoor Championships (Birmingham, AL)	
	60mH mF, wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
4-Mar	2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)	
	60mH wAF, wBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mAF, mBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
28-Feb	2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)	
	60mH wAF, wBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mAF, mBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
24-Feb	2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)	
	60mH wAF, wBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mAF, mBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
23-Feb	2019 South Eastern Conference Indoor Championships (Fayetteville, AR)	
	60mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
20-Feb	2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)	
	60mH wAF, wBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
	mAF, mBF	CAA Hurdle Development (2019): Final 2019 year end report (in Chinese)
20-Feb	2019 PSD Bank Meeting (Düsseldorf, GER)	
	60mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
16-Feb	2019 Müller Indoor Grand Prix (Birmingham, GBR)	
	60mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
16-Feb	2019 French National Indoor Championships (Miramas, FRA)	

	60mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
8-Feb	2019 Tyson Indoor Invitational (Fayetteville, AR)	
	60mH mF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
1-Feb	2019 ISTAF Indoor (Berlin, GER)	
	60mH wF	Henson, T. (2020) Athlete First: 2019 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
21-Oct	2018 Japanese National Junior (U20) Championships (Nagano, JPN)	
	200m mF, wF	Ryutaro, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 202-203. (in Japanese)
	400m mF, wF	Ryutaro, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 206-207. (in Japanese)
	110mH mF (izumiya)	Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 153. (in Japanese)
21-Oct	2018 Japanese National Youth (U18) Championships (Nagano, JPN)	
	200m mF, wF	Ryutaro, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 204-205. (in Japanese)
	400m mF, wF	Ryutaro, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 208-209. (in Japanese)
8-Oct	2018 National Sports Festival (Fukui, JPN)	
	100m wF, wU20F	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 145. (in Japanese)
	400m mF, wF	Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. Bulletin of Studies in Athletics of JAAF, 14, p 116, 120. (in Japanese)
	mU20F, wU20F	Joshi, E. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 183. (in Japanese)
	100mH wF, wU18F	Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. Bulletin of Studies in Athletics of JAAF, 14, p 150-151. (in Japanese)
	110mH mF	Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 140. (in Japanese)
	mU20F	Joshi, E. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 179-180. (in Japanese)
	400mH mF (kajiki), wF (utsunomiya)	Morioka (2018). Race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018. Bulletin of Studies in Athletics of JAAF, 14, p 159-160. (in Japanese)
21-Sep	2018 Japanese Corporate Championships (Osaka, JPN)	
	100m mF	Kobayashi (2018). Race analysis results for men 100m in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 93. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 145. (in Japanese)
	200m mF, wF	Takahashi (2018). 200m Running Performance Analysis of Top Athletes in 2018. Bulletin of Studies in Athletics of JAAF, 14, p 104. (in Japanese)
	400m mF, wF	Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. Bulletin of Studies in Athletics of JAAF, 14, p 116, 119. (in Japanese)
17-Sep	2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)	
	110mH mF	Zhang J. (2019). A comparative analysis of the characteristics of the running time of elite men's 110m hurdles in different age groups in China. (Dissertation) Beijing Sport University, p 50. (in Chinese)
16-Sep	2018 Chinese National Championships (Taiyuan, CHN)	
	100mH wF, wH	Henson (2018) - coaching observations
	110mH mF, mH	Henson (2018) - coaching observations
	400mH mF, mH, wF, wH	Henson (2018) - coaching observations
9-Sep	2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)	
	100mH wF	Henson, T. (2021) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2021) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
9-Sep	2018 Japanese University National Championships (Nagoya, JPN)	
	110mH mF (izumiya)	Shibayama, K. (2021). Race analysis of men's 110m hurdles in the 2021 season. Bulletin of Studies in Athletics of JAAF, 17, p 153. (in Japanese)
2-Sep	2018 Meeting Città di Padova (Padova, ITA) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
31-Aug	2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)	
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
30-Aug	2018 Weltklasse (Zürich, SUI)	
	400m mF	Omega Timing (2018). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2018/zurich/are0040040.pdf)

- 400mH mF, wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- mF (200m), wF (200m) Omega Timing (2020) Diamond League Race Analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2018/zurich/are0270040.pdf>
<http://static.sportresult.com/sports/at/data/2018/zurich/are1270040.pdf>
- 26-Aug **2018 Asian Games (Jakarta, INA)**
- 100m mF Kobayashi (2018). Race analysis results for men 100m in 2018 season. *Bulletin of Studies in Athletics of JAAF*, 14, p 93. (in Japanese)
- wF Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. *Bulletin of Studies in Athletics of JAAF*, 15, p 140. (in Japanese)
- 200m mF, wF Takahashi (2018). 200m Running Performance Analysis of Top Athletes in 2018. *Bulletin of Studies in Athletics of JAAF*, 14, p 102. (in Japanese)
- 400m mF, mSF, mH, wF Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. *Bulletin of Studies in Athletics of JAAF*, 14, p 115, 119. (in Japanese)
- 110mH mF Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. *Bulletin of Studies in Athletics of JAAF*, 14, p 139. (in Japanese)
- 400mH mF (samba) Zhao W. (2020). Comparative analysis of the kinematic characteristics of Chinese and foreign outstanding men's 400-meter hurdlers. (Dissertation) Nanjing Normal University, p 19, 28-29, 32. (in Chinese)
- 18-Aug **2018 Müller Grand Prix (Birmingham, GBR)**
- 400m mF Omega Timing (2018). IAAF diamond league race analysis. (<http://static.sportresult.com/sports/at/data/2018/birmingham/are0040040.pdf>)
- 110mH mF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 3-Aug **2018 African Championships (Asaba Asaba, NGR)**
- 400m wF (semenya) Vazel, P.J. (2018.08.03) Retrieved from <https://twitter.com/pjvazel>
- 3-Aug **2018 Japanese National High School Championships (Nagoya, JPN)**
- 100m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 2, 32. (in Japanese)
- 200m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 5, 35. (in Japanese)
- 400m mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 6, 36. (in Japanese)
- 100mH wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 42. (in Japanese)
- 110mH mF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 13. (in Japanese)
- 400mH mF, wF Kota, T., Kazuhito, K., Fukuda, A., Kohei, Y., & Miyashita, T. (2018). 71st high school championships: JAF scientific committee - biomechanics data collection. p. 24, 63. (in Japanese)
- 21-Jul **2018 Müller Anniversary Games (London, GBR)**
- 400m mF, mNatF, wF Omega Timing (2018). IAAF diamond league race analysis. (<http://static.sportresult.com/sports/at/data/2018/london/are0040040.pdf>)
(<http://static.sportresult.com/sports/at/data/2018/london/are6040040.pdf>)
(<http://static.sportresult.com/sports/at/data/2018/london/are5040040.pdf>)
- 100mH wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF, wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 20-Jul **2018 Herculis Meeting International d'Athlétisme (Monaco, MON)**
- 400m wF Vazel, P.J. (2018.08.03) Retrieved from <https://twitter.com/pjvazel>
- 100mH wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 15-Jul **2018 IAAF World Junior Championships (Tampere, FIN)**
- 200m mF, mSF, mH, wF Koyama, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 91, 94. (in Japanese)
- 400m mF, mH, wF Koyama, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 96, 98. (in Japanese)
- 100mH wF, wSF2 Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. *Bulletin of Studies in Athletics of JAAF*, 14, p 149. (in Japanese)
- 110mH mF, mH Koyama, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 99. (in Japanese)
- 400mH wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-Jul **2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)**
- 100mH wF Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 9-Jul **2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)**

	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
5-Jul	2018 Athletissima (Lausanne, SUI) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Jul	2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
30-Jun	2018 Meeting de Paris (Paris, FRA)	
	400m wF	Omega Timing (2018). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2018/paris/are1040040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2018/paris/are0270040.pdf
23-Jun	2018 USATF National Championships (Des Moines, IA) (TV Analysis)	
	200m mF	Track Newsletter (2018). USATF championships men. Track e-Newsletter 17(47). p. 272.
	wF	Track Newsletter (2018). USATF championships women. Track e-Newsletter 17(48). p. 280.
	400m mF	Track Newsletter (2018). USATF championships men. Track e-Newsletter 17(47). p. 273.
	wF	Track Newsletter (2018). USATF championships women. Track e-Newsletter 17(48). p. 281.
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
23-Jun	2018 Japanese National Championships (Yamaguchi, JPN)	
	100m mF	Kobayashi (2018). Race analysis results for men 100m in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 93. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 144. (in Japanese)
	200m mF, wF	Takahashi (2018). 200m Running Performance Analysis of Top Athletes in 2018. Bulletin of Studies in Athletics of JAAF, 14, p 103. (in Japanese)
	400m mF, mH, wF, wH	Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. Bulletin of Studies in Athletics of JAAF, 14, p 114, 118. (in Japanese)
	100mH wF	Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. Bulletin of Studies in Athletics of JAAF, 14, p 148. (in Japanese)
	110mH mF	Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 138. (in Japanese)
	400mH mF, wF	Morioka (2018). Race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018. Bulletin of Studies in Athletics of JAAF, 14, p 158-159. (in Japanese)
19-Jun	2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
17-Jun	2018 National Grand Prix Final (Guiyang, CHN) (Altitude)	
	110mH mF	Zhang J. (2019). A comparative analysis of the characteristics of the running time of elite men's 110m hurdles in different age groups in China. (Dissertation) Beijing Sport University, p 51. (in Chinese)
16-Jun	2018 Japanese National Multi-Event Championships (Nagano, JPN)	
	100m mDec	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 61. (in Japanese)
	200m wHept	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 65. (in Japanese)
	400m mDec	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 62. (in Japanese)
	100mH wHept	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 66. (in Japanese)
	110mH mDec	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 63. (in Japanese)
10-Jun	2018 Bauhaus Galan (Stockholm, SWE)	
	400m wF	Omega Timing (2018). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2018/stockholm/are1040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
9-Jun	2018 NCAA Championships (Eugene, OR) (TV Analysis)	
	200m mF	Track Newsletter (2018). NCAA men's championships. Track e-Newsletter 17(42). p. 244.
	wF	Track Newsletter (2018). NCAA women's championships. Track e-Newsletter 17(43). p. 254.

	400m mF	Track Newsletter (2018). NCAA men's championships. Track e-Newsletter 17(42). p. 245.
	wF	Track Newsletter (2018). NCAA women's championships. Track e-Newsletter 17(43). p. 255.
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
7-Jun	2018 Bislett Games (Oslo, NOR)	
	400m wF	Omega Timing (2018). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2018/oslo/are1040040.pdf)
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mF (200m), wF (200m)	Omega Timing (2020) Diamond League Race Analysis. Retrieved from http://static.sportresult.com/sports/at/data/2018/oslo/are0270040.pdf http://static.sportresult.com/sports/at/data/2018/oslo/are1270040.pdf
3-Jun	2018 Fuse Sprint (Tottori, JPN)	
	100m mF	Kobayashi (2018). Race analysis results for men 100m in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 93. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 144. (in Japanese)
	100mH wF	Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. Bulletin of Studies in Athletics of JAAF, 14, p 147. (in Japanese)
	110mH mF	Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 137. (in Japanese)
31-May	2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis)	
	100mH wF, wH (talay)	Henson, T. (2021) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
31-May	2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)	
	100mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
27-May	2018 Shimane High School Championships (Izumo, JPN)	
	100m mF, wF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 3 & 5. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
	200m mF, wF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 6-7. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
	400m mF, wF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 8 & 10. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
	100mH wF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 14. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
	110mH mF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 16. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
	400mH mF, wF	Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 18 & 20. (in Japanese). Retrieved from https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf
26-May	2019 Prefontaine Classic (Eugene, OR) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
20-May	2018 Seiko Golden Grand Prix (Osaka, JPN)	
	100m mF	Kobayashi (2018). Race analysis results for men 100m in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 93. (in Japanese)
	wF	Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. Bulletin of Studies in Athletics of JAAF, 15, p 143. (in Japanese)
	200m mF	Takahashi (2018). 200m Running Performance Analysis of Top Athletes in 2018. Bulletin of Studies in Athletics of JAAF, 14, p 101. (in Japanese)
	400m mF, wF	Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. Bulletin of Studies in Athletics of JAAF, 14, p 113, 117. (in Japanese)
	100mH wF	Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. Bulletin of Studies in Athletics of JAAF, 14, p 146. (in Japanese)
	110mH mF	Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. Bulletin of Studies in Athletics of JAAF, 14, p 136. (in Japanese)

	400mH mF	Morioka (2018). Race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 158. (in Japanese)
17-May	2018 Chinese National U18 Championships (Jinzhou, CHN) (99.1cm) 110mH mF	Zhang J. (2019). A comparative analysis of the characteristics of the running time of elite men's 110m hurdles in different age groups in China. (Dissertation) Beijing Sport University, p 50. (in Chinese)
13-May	2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis) 100mH wF 400mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
13-May	2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm) 110mH mF	Zhang J. (2019). A comparative analysis of the characteristics of the running time of elite men's 110m hurdles in different age groups in China. (Dissertation) Beijing Sport University, p 51. (in Chinese)
12-May	2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis) 100mH wF 110mH mF 400mH wF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
6-May	2018 Kinami Michitaka Memorial (Osaka, JPN) 100mH wF 110mH mF	Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 145. (in Japanese) Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 135. (in Japanese)
4-May	2018 Doha Diamond League (Doha, QAT) (TV Analysis) 100mH wF 400mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis) Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
3-May	2018 Shizuoka International Meeting (Fukuoro, JPN) 200m mF, wF mB, mH, wB, wH 400m mF, mB, wF 400mH mF, mB, mC	Takahashi (2018). 200m Running Performance Analysis of Top Athletes in 2018. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 100. (in Japanese) Ryutaro, H. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 34. (in Japanese) Yamanaka (2018). Race analysis of men and women 400m at 2018 competition. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 113, 117. (in Japanese) Morioka (2018). Race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 157. (in Japanese)
29-Apr	2018 Mikio Oda Memorial (Hiroshima, JPN) 100m mAF, mBF, wF 100mH wF 110mH mF mH (furuya)	Kobayashi (2018). Race analysis results for men 100m in 2018 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 93. (in Japanese) Takahashi, K. (2019). Running performance analysis of women's 100m of leading sprinters: World, Asia, and Japan. <i>Bulletin of Studies in Athletics of JAAF</i> , 15, p 143. (in Japanese) Kota (2018). Analysis of races of leading women's 100m hurdles at home and abroad. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 144. (in Japanese) Shibayama (2018). Race analysis of men's 110m hurdle run in 2018 season. <i>Bulletin of Studies in Athletics of JAAF</i> , 14, p 134. (in Japanese) Touchdown_Time (2018.05.01). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
27-Apr	2018 National Relay Championships (Fayetteville, AR) (TV Analysis) 400mH wAF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
21-Apr	2018 Tokyo Combined Event Meeting (Tokyo, JPN) 100m mDec 200m wHept 400m mDec 100mH wHept 110mH mDec	Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 7. (in Japanese) Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 11. (in Japanese) Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 8. (in Japanese) Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 12. (in Japanese) Matsubayashi, T. (2018). research on athlete performance and technique- 2018 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 9. (in Japanese)
12-Apr	2018 Commonwealth Games (Gold Coast, AUS) (TV Analysis) 400mH mF	Henson, T. (2020) Athlete First: 2018 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
3-Mar	2018 IAAF World Indoor Championships (Birmingham, GBR) 60mH wF	Walker, J., Pollitt, L., Paradis, G.P., Besodis, I., Bissas, A. and Merlino, S. (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Women. Birmingham, UK: International Association of Athletics Federations. p. 32.

mF Walker, J., Pollitt, L., Paradisis, G.P., Besodis, I., Bissas, A. and Merlino, S. (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men. Birmingham, UK: International Association of Athletics Federations. p. 32.

25-Feb **2018 Müller Indoor Grand Prix (Glasgow, GBR)**

110mH mF Touchdown_Time (2018.03.04). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

16-Feb **2018 Australian Athletics Championships (Gold Coast, AUS)**

100m mF Browning, Rohan (2018.02.26). Retrieved from twitter.com/Rohan_Browning

3-Feb **2018 Japanese National Indoor U20 Championships (Osaka, JPN) (0.99m)**

110mH mF Touchdown_Time (2018.03.04). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

20-Oct **2017 Japanese U20 National Championships (Nagoya, JPN)**

100m wF (kodama) Takahashi, W., (2021). Race analysis of 100m women's athletes in major domestic competitions, focusing on Mei Kodama. Bulletin of Studies in Athletics of JAAF, 17, p 114. (in Japanese)

9-Oct **2017 National Sports Festival (Matsuyama, JPN)**

100m mF, mSF, wF, wSF Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 162-163. (in Japanese)

400m mF, mH, mFu19, TFDData-Store (2017.10.12) Retrieved from tfd-data-store.com/2017/10/12/post-1100/ (in Japanese)

mSFu19, mHu19,
wF, wH, wFu19,
wSFu19

mF, wF Yamanaka (2017). Male and female 400m analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 178, 182. (in Japanese)

100mH mF (aoki) Touchdown_Time (2017.10.10). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

110mH mFu19 (higuchi) Touchdown_Time (2017.10.10). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

400mH mF (kishimoto) Morioka (2018). Analysis of the race patterns of the top 400m hurdles in Japan. Bulletin of Studies in Athletics of JAAF, 14, p 156. (in Japanese)

24-Sep **2017 All Japan Corporate Championships (Osaka, JPN)**

400m mF, wF TFDData-Store (2017.10.05) Retrieved from tfd-data-store.com/2017/10/05/post-1097/ (in Japanese)

9-Sep **2017 Japanese Inter-Collegiate Championships (Fukui JPN)**

100m mF (kiryu) Kobayashi (2017). 100m race patterns of Yoshihide Kiryu in his history attaining 9.98 seconds. Bulletin of Studies in Athletics of JAAF, 13, p 111. (in Japanese)

5-Sep **2017 National Games (Tianjin, CHN)**

100m mF Jiang, Z., Yuan, T., Wang, G., & Li, Q. (2018). Study on the key technical characteristics of men's 100m finalists in 2017 National Games. China Sport Science and Technology. 54 (6). p114. (in Chinese)

200m mF Jiang Z. (2017.09.05) Retrieved from <https://twitter.com/pjvazel>

400m mF (guo) Xu J. (2018). A comparative analysis of the athletic characteristics of Guo Zhongze and Van Niekerk's 400-meter running. Social Science II, p13. (in Chinese)

wF Yang H. (2019). China's outstanding women's 400 meters runner Yang Willzhen full running speed characteristics analysis. Social Sciences II, p28, 32, 36, 41. (in Chinese)

100mH wF, wH (wu) Henson, T. (2017). Coaching observations at the 2017 Chinese National Games

110mH mF Henson, T. (2017). Coaching observations at the 2017 Chinese National Games

400mH mF Wang G.. (2020). Comparative analysis of the pre-competitive training characteristics of the top eight athletes in the men's 400-meter hurdles at the 13th National Games. (Dissertation) China University of Mining and Technology, p 21, 44. (in Chinese)

1-Sep **2017 Memorial van Damme (Brussels, BEL)**

400m wF Omega Timing (2017). IAAF diamond league race analysis. (<https://static.sportresult.com/sports/at/data/2017/brussels/are1040040.pdf>)

110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

400mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

wF (200m) Omega Timing (2020) Diamond League Race Analysis. Retrieved from <http://static.sportresult.com/sports/at/data/2017/brussels/are1270040.pdf>

24-Aug **2017 Weltklasse (Zürich, SUI)**

200m wF (miller-uibo) Touchdown_Time (2017.08.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

100mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

400mH mF, wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

20-Aug **2017 Müller Grand Prix (Birmingham, GBR)**

110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

wF Henson, T. (2021) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

5-Aug **2017 IAAF World Championships (London, GBR)**

100m mF Leeds Beckett Univ. (2017). Preliminary analysis of the men's 100m final. Biomechanical report for the IAAF world championships: London 2017: Women's 100m. Leeds Beckett University, London, GBR. p3.

	wF	Bissas, A., Walker, J., Tucker, C., Paradisis, G., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Women's 100m. Leeds Beckett University, London, GBR. p11.
	mSF, mH	Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 162-163. (in Japanese)
	200m mF, mSF	Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Men's 200m. Leeds Beckett University, London, GBR. p9-10.
	wF, wSF	Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Women's 200m. Leeds Beckett University, London, GBR. p9-10.
	mF, mSF, mH, wF, wSF, wH	Takahashi (2017). 200m running performance analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 172-173. (in Japanese)
	400m mF	Yamanaka (2017). Male and female 400m analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 179. (in Japanese)
	mSF	Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Men's 400m. Leeds Beckett University, London, GBR. p10-11.
	wF, wSF	Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Women's 400m. Leeds Beckett University, London, GBR. p10-11.
	100mH wF, wSF	Pollitt, L., Walker, J., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Women's 100m Hurdles. Leeds Beckett University, London, GBR. p12-13.
	110mH mF, mSF	Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (2018). Biomechanical report for the IAAF world championships: London 2017: Men's 110m Hurdles. Leeds Beckett University, London, GBR. p12-13.
	400mH mF, wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	mSF2, mH1 (abe)	Morioka (2018). Analysis of the race patterns of the top 400m hurdles in Japan. Bulletin of Studies in Athletics of JAAF, 14, p 155. (in Japanese)
1-Aug	2017 Japanese National High School Championships (Yamagata, JPN)	
	100m mF, wF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 4, 43. (in Japanese)
	200m mF, wF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 8, 47. (in Japanese)
	400m mF, wF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 11, 50. (in Japanese)
	100mH wF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 58-59. (in Japanese)
	110mH mF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 19-20. (in Japanese)
	400mH mF, wF	Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiro, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 24, 63. (in Japanese)
30-Jul	2017 Windsprint (Sundsvall, SWE)	
	100m mA, mB, mC, mD, wA, wB	Andersson, H. (2017) Windsprint 2017 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
	100mH wF, wF2	Andersson, H. (2017) Windsprint 2017 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
	110mH mF, mF2	Andersson, H. (2017) Windsprint 2017 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
	100mH wF, wF2	Andersson, H. (2017) Windsprint 2017 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
23-Jul	2017 European U20 Championships (Grosseto, ITA)	
	400mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
22-Jul	2017 All Star Night (Hiratsuka, JPN)	
	110mH mF	TFData-Store (2017.07.26) Retrieved from tfd-data-store.com/2017/07/26/post-1072/ (in Japanese)
21-Jul	2017 Herculis Meeting International d'Athlétisme (Monaco, MON)	
	400m mF	Touchdown_Time (2017.07.21). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	100mH wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
18-Jul	2017 Galà dei Castelli (Bellinzona, SUI)	
	110mH mF	Touchdown_Time (2017.07.18). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
16-Jul	2017 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)	
	400mH wF	Henson, T. (2021) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
11-Jul	2017 Spitzen Leichtathletik (Luzern, SUI)	
	110mH mF	Touchdown_Time (2017.07.11). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
9-Jul	2017 Nanbu Memorial Meeting (Sapporo, JPN)	
	400m mF, mB	TFData-Store (2017.07.11) Retrieved from tfd-data-store.com/2017/07/11/post-1010/ (in Japanese)

	110mH mF	TFData-Store (2017.07.12) Retrieved from tfdata-store.com/2017/07/12/post-1025/ (in Japanese)
	400mH mF	TFData-Store (2017.07.11) Retrieved from tfdata-store.com/2017/07/11/post-1019/ (in Japanese)
9-Jul	2017 Müller's Anniversary Games (London, GBR)	
	100mH wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
6-Jul	2017 Athletissima (Lausanne, SUI)	
	400m mF (van niekerk)	Škraba, Z.P. (2017). Wayde van Niekerk's 400m races in Lausanne & Monaco: Splits & strides. Retrieved from https://zigapskraba.com/2017/07/23/wayde-van-niekerks-400m-races-in-lausanne-monaco-splits-strides/
	mF (thebe)	Vazel, P.-J. (2018). Men's 400m: Historical analysis and coaching commentary. In Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (Eds). Biomechanical report for the IAAF world championships: London 2017. Leeds Beckett University, London, GBR. p47.
	100mH wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF	Henson, T. (2021) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
4-Jul	2017 István Gyulai Memorial (Székesfehérvár, HUN)	
	100mH wF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
1-Jul	2017 Meeting de Paris (Paris, FRA)	
	400m wF	Omega Timing (2017). IAAF diamond league race analysis. (http://static.sportresult.com/sports/at/data/2017/paris/are1040040.pdf)
	110mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
28-Jun	2017 Golden Spike (Ostrava, CZE)	
	300m mF	Touchdown_Time (2017.07.01). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
25-Jun	2017 National Grand Prix Final (Guiyang, CHN) (Altitude)	
	100m wH	Jiang Z. (2017) CAA Sport Science
24-Jun	2017 USATF National Championships (Sacramento, CA)	
	100m	
	200m mF	Lee, J., & Ferrara, A. (2017.07.14) Retrieved from speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/
	wF	Track Newsletter (2017). USATF women's championships. Track e-Newsletter 15(42). p. 268.
	400m mF, mSF, mH, wF	Lee, J., & Ferrara, A. (2017.07.13) Retrieved from speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/
	100mH	
	110mH	
	400mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF	Henson, T. (2021) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
24-Jun	2017 Jamaican National Championships (Kingston, JAM)	
	110mH mF	Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
24-Jun	2017 Japanese National Championships (Osaka, JPN)	
	100m mF, mSF, mH, wF, wH	Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 162-163. (in Japanese)
	200m mF, wF	Takahashi (2017). 200m running performance analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 171. (in Japanese)
	400m mF, mH	TFData-Store (2017.07.08) Retrieved from tfdata-store.com/2017/07/08/post-965/ (in Japanese)
	wF, wH	TFData-Store (2017.07.10) Retrieved from tfdata-store.com/2017/07/10/post-978/ (in Japanese)
	mF, wF	Yamanaka (2017). Male and female 400m analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 177, 181. (in Japanese)
	100mH wF	TFData-Store (2017.07.19) Retrieved from tfdata-store.com/2017/07/19/post-1068/ (in Japanese)
	wSF (shimura)	Touchdown_Time (2017.07.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	wSF (kimura)	Touchdown_Time (2017.06.24). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF, mSF, mH	TFData-Store (2017.07.13) Retrieved from tfdata-store.com/2017/07/13/post-1040/ (in Japanese)
	400mH mF, wF (aoki)	Morioka (2018). Analysis of the race patterns of the top 400m hurdles in Japan. Bulletin of Studies in Athletics of JAAF, 14, p 154-155. (in Japanese)
18-Jun	2017 Bauhaus Athletics (Stockholm, SWE)	

- 110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 27-May **2017 Shimane High School Championships (Izumo, JPN)**
- 100m mF, wF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 3 & 5. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 200m mF, wF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 6-7. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 400m mF, wF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 8 & 10. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 100mH wF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 14. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 110mH mF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 16. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 400mH mF, wF Shimizu, Y. (2018). Shimane high school championships 2018, Biomechanics data analysis. p. 18 & 20. (in Japanese). Retrieved from <https://data.pc-egg.com/system/uploads/files/000/070/625/県高校総体2018データ最終報告.pdf>
- 20-May **2017 Bislett Games (Oslo, NOR)**
- 100mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 9-Jun **2017 NCAA Championships (Eugene, OR)**
- 200m mF Track Newsletter (2017). NCAA men's championships. Track e-Newsletter 15(36). p. 226.
- wF Track Newsletter (2017). NCAA women's championships. Track e-Newsletter 15(37). p. 235.
- 400m mF Track Newsletter (2017). NCAA men's championships. Track e-Newsletter 15(36). p. 227.
- wF Track Newsletter (2017). NCAA women's championships. Track e-Newsletter 15(37). p. 236.
- 8-Jun **2017 Golden Gala Pietro Mennea (Rome, ITA)**
- 110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 4-Jun **2017 Fuse Sprint (Tottori, JPN)**
- 100m mF, mB, mH1, wF, Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 162-163. (in Japanese)
- wB, wH
- 100mH wF, wH3 TFDData-Store (2017.06.04) Retrieved from tfdata-store.com/2017/06/04/post-848/ (in Japanese)
- 110mH mF, mH5 TFDData-Store (2017.06.04) Retrieved from tfdata-store.com/2017/06/04/post-848/ (in Japanese)
- 2-Jun **2017 Korean National Championships (Kimchun, KOR)**
- 110mH mF Hong, S.H. & Ryu, J.K. (2018) - performance analysis of men's 110m hurdles using rhythmic units. Korean Journal of Sport Biomechanics, 28(2), p. 81.
- 28-May **2017 Luca Coscioni Memorial (Orvieto, ITA)**
- 400m wF (hooper) Tozzi (2017) - FIDAL - analisi gloria hooper, 25 maggio Orvieto (in Italian)
- 17-May **2017 Prefontaine Classic (Eugene, OR)**
- 100mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 26-May **2017 NCAA Championships - West Preliminary (Austin, TX)**
- 400m mQF (kerley) Vazel, P.-J. (2018). Men's 400m: Historical analysis and coaching commentary. In Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (Eds). Biomechanical report for the IAAF world championships: London 2017. Leeds Beckett University, London, GBR. p48.
- 26-May **2017 Kanto Collegiate Championships (Yokohama, JPN)**
- 400m mFD1, mFD2, TFDData-Store (2017.06.01) Retrieved from tfdata-store.com/2017/06/01/post-786/ (in Japanese)
- wFD1, mSFD1, mSFD2, TFDData-Store (2017.06.02) Retrieved from tfdata-store.com/2017/06/02/post-835/ (in Japanese)
- wSFD1
- 100mH wFD1 TFDData-Store (2017.06.08) Retrieved from tfdata-store.com/2017/06/08/post-920/ (in Japanese)
- 110mH mFD1 (kanai) TFDData-Store (2017.06.08) Retrieved from tfdata-store.com/2017/06/08/post-914/ (in Japanese)
- 21-May **2017 Seiko Golden Grand Prix (Kawasaki, JPN)**
- 100m wF Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 162-163. (in Japanese)
- 200m mF, wF Takahashi (2017). 200m running performance analysis in the 2017 season. Bulletin of Studies in Athletics of JAAF, 13, p 170. (in Japanese)
- 100mH wF TFDData-Store (2017.05.22) Retrieved from tfdata-store.com/2017/05/22/post-599/ (in Japanese)

- 110mH mF TFDData-Store (2017.05.22) Retrieved from tfd-data-store.com/2017/05/22/post-599/ (in Japanese)
- 400mH mF (abe) Morioka (2018). Analysis of the race patterns of the top 400m hurdles in Japan. *Bulletin of Studies in Athletics of JAAF*, 14, p 154. (in Japanese)
- mF (konishi) TFDData-Store (2017.05.22) Retrieved from tfd-data-store.com/2017/05/22/post-605/ (in Japanese)
- 21-May **2017 Gunma High School Athletics Meeting (Maebashi, JPN)**
- 400mH mF (shirao) TFDData-Store (2017.05.20) Retrieved from tfd-data-store.com/2017/05/20/post-584/ (in Japanese)
- 20-May **2017 Jamaica International Invitational (Kingston, JAM)**
- 400mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 20-May **2017 East Japan Business Athletics Championships (Yuma, JPN)**
- 110mH mF TFDData-Store (2017.05.20) Retrieved from tfd-data-store.com/2017/05/20/post-579/ (in Japanese)
- 14-May **2017 Tokyo High School Championships (Tokyo, JPN)**
- 400mH mF (inoue) TFDData-Store (2017.05.14) Retrieved from tfd-data-store.com/2017/05/14/post-470/ (in Japanese)
- 13-May **2017 Shanghai Diamond League (Shanghai, CHN)**
- 110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2021) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 11-May **2017 Kansai Regional University Championships (Osaka, JPN)**
- 400m mF, wF TFDData-Store (2017.05.13) Retrieved from tfd-data-store.com/2017/05/13/post-441/ (in Japanese)
- 100mH wF TFDData-Store (2017.05.13) Retrieved from tfd-data-store.com/2017/05/13/post-441/ (in Japanese)
- 110mH mF TFDData-Store (2017.05.13) Retrieved from tfd-data-store.com/2017/05/13/post-441/ (in Japanese)
- 7-May **2017 Michitaka Memorial (Osaka, JPN)**
- 100mH wF, wFOp TFDData-Store (2017.05.08) Retrieved from tfd-data-store.com/2017/05/08/post-413/ (in Japanese)
- 110mH mF, mFOp TFDData-Store (2017.05.08) Retrieved from tfd-data-store.com/2017/05/08/post-413/ (in Japanese)
- 5-May **2017 Doha Diamond League (Doha, QAT)**
- 100mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 5-May **2017 Mito Invitational (Mito, JPN)**
- 100mH wF, wH TFDData-Store (2017.05.06) Retrieved from tfd-data-store.com/2017/05/06/post-423/ (in Japanese)
- 110mH mF, mH TFDData-Store (2017.05.06) Retrieved from tfd-data-store.com/2017/05/06/post-423/ (in Japanese)
- 3-May **2017 Shizuoka International Meeting (Fukuroi, JPN)**
- 200m mF, wF Takahashi (2017). 200m running performance analysis in the 2017 season. *Bulletin of Studies in Athletics of JAAF*, 13, p 169. (in Japanese)
- 400m mF, wF, wB Yamanaka (2017). Male and female 400m analysis in the 2017 season. *Bulletin of Studies in Athletics of JAAF*, 13, p 176, 180. (in Japanese)
- 400mH mF Morioka (2018). Analysis of the race patterns of the top 400m hurdles in Japan. *Bulletin of Studies in Athletics of JAAF*, 14, p 153. (in Japanese)
- 29-Apr **2017 Drake Relays (Des Moines, IA)**
- 100mH wF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 29-Apr **2017 Mikio Oda Memorial (Hiroshima, JPN)**
- 100m mF, mB, wB, wH Matsuo (2017). Race analysis of the men's and women's 100m in the 2017 season. *Bulletin of Studies in Athletics of JAAF*, 13, p 162-163. (in Japanese)
- 100mH wF, wB TFDData-Store (2017.05.01) Retrieved from tfd-data-store.com/2017/05/01/post-458/ (in Japanese)
- 110mH mF, mB TFDData-Store (2017.05.01) Retrieved from tfd-data-store.com/2017/05/01/post-458/ (in Japanese)
- 23-Apr **2017 Izumo Athletics Games (Izumo, JPN)**
- 300m mF, wF TFDData-Store (2017.05.17) Retrieved from tfd-data-store.com/2017/05/17/post-537/ (in Japanese)
- 9-Apr **2017 Kyoto University Meeting (Kyoto, JPN)**
- 110mH mF TFDData-Store (2017.04.12) Retrieved from tfd-data-store.com/2017/04/12/post-362/ (in Japanese)
- 8-Apr **2017 Tokyo Six School Meeting (Tokyo, JPN)**
- 110mH mF, mH TFDData-Store (2017.04.10) Retrieved from tfd-data-store.com/2017/04/10/post-342/ (in Japanese)
- 8-Apr **2017 Tokushima Athletics Carnival (Naruto, JPN)**
- 110mH mF (omoro) TFDData-Store (2017.04.09) Retrieved from tfd-data-store.com/2017/04/09/post-285/ (in Japanese)
- 6-Apr **2017 Osaka University Athletics Championships (Osaka, JPN)**
- 400m mF, wF TFDData-Store (2017.04.07) Retrieved from tfd-data-store.com/2017/04/07/post-249/ (in Japanese)
- 100mH wF TFDData-Store (2017.04.07) Retrieved from tfd-data-store.com/2017/04/07/post-249/ (in Japanese)
- 110mH mF TFDData-Store (2017.04.07) Retrieved from tfd-data-store.com/2017/04/07/post-249/ (in Japanese)
- 400mH wF Touchdown_Time (2017.04.13). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 28-Mar **2017 North-West University Pukke Invitational (Sasolburg, RSA)**
- 400mH mF Henson, T. (2020) Athlete First: 2017 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 11-Mar **2017 SummerOfAths Grand Prix (Canberra, AUS)**
- 100m mF, mB, mC TFDData-Store (2017.03.12) Retrieved from tfd-data-store.com/2017/03/12/post-46/ (in Japanese)
- 3-Mar **2017 European Indoor Championships (Beograd, SRB)**
- 60mH mF, wF (roleder) Touchdown_Time (2017.03.05). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 25-Feb **2017 German National Indoor Junior Championships (Sindelfingen, GER) (0.99m)**

- 4-Feb 60mH mF, mSF (petzke) Poser, S., & Schörling, P. (2017). Mit mehrkampftraining zum hüdentitel. *Leichtathletiktraining*, p16. (in German)
- 4-Feb 2017 Karlsruhe Indoor (Karlsruhe, GER)
60mH wF (harrison) Touchdown_Time (2017.02.10). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 4-Feb 2017 Japanese National Indoor Junior Championships (Osaka, JPN) (0.99m)
60mH mF, wF (tanaka) Touchdown_Time (2017.02.04). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 21-Jan 2017 Rod McCravy Memorial (Lexington, KY)
60mH wF (harrison) Touchdown_Time (2017.01.28). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 3-Nov 2016 West Japan Carnival (Kita-Kyushu, JPN)
110mH mF, mH Touchdown_Time (2016.11.07). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 30-Oct 2016 Japanese Junior Olympics (Yokohama, JPN) (A - 0.99m) (B - 0.91m)
100mH wF"B" Touchdown_Time (2016.10.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH4"B" Touchdown_Time (2016.10.29). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wF"A" Touchdown_Time (2016.10.28). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH3"A" Touchdown_Time (2016.10.27). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF"A" Touchdown_Time (2016.10.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mF"B" Touchdown_Time (2016.10.28). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mSF"B", mH"B" Touchdown_Time (2016.10.27). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 23-Oct 2016 Tashima Memorial (Yamaguchi, JPN)
110mH mF (omuro) Touchdown_Time (2016.10.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 21-Oct 2016 Japanese National Junior Championships (Mizuho, JPN)
400m mF, wF Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
100mH wSF3 Touchdown_Time (2016.10.22). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wSF Touchdown_Time (2016.10.21). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH6 Touchdown_Time (2016.11.03). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH Touchdown_Time (2016.11.02). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH Touchdown_Time (2016.11.01). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (kato) Touchdown_Time (2016.10.21). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 21-Oct 2016 Japanese National Youth Championships (Mizuho, JPN)
400m mF, wF Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
100mH wF (yuidori) Touchdown_Time (2016.10.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wSF Touchdown_Time (2016.10.22) & (2016.11.06). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wH Touchdown_Time (2016.11.06). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (higuchi) Touchdown_Time (2016.10.21). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mSF3 Touchdown_Time (2016.11.11). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mSF, mH Touchdown_Time (2016.11.08). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mH Touchdown_Time (2016.11.07). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
400mH mH Touchdown_Time (2016.11.17). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 19-Oct 2016 Kansai Student Athletics Championships (Osaka, JPN)
100mH wF (yamanaka) Touchdown_Time (2016.10.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (hatanaka) Touchdown_Time (2016.10.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 15-Oct 2016 China Perfecture High School Championships (Izumo, JPN)

	110mH mF (fukumoto)	Touchdown_Time (2016.10.16). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
10-Oct	2016 National Sports Festival (Kitakami, JPN)	
	100m wF, wFU19	Matsuo (2016). Speed, frequency, and stride analysis of male & female 100m sprinters. <i>Bulletin of Studies in Athletics of JAAF</i> , 12, p 79. (in Japanese)
	400m mF, mFU19, wF, wFU19	Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. <i>Bulletin of Studies in Athletics of JAAF</i> , 12, p 100-101. (in Japanese)
	100mH wF	Touchdown_Time (2016.11.14). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (yazawa)	Touchdown_Time (2016.10.11). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
9-Oct	400mH mFU19 (inoue)	TFData-Store (2017.05.14) Retrieved from tdata-store.com/2017/05/14/post-470/ (in Japanese)
	2016 Tokai Student Autumn Championships (Gifu, JPN)	
	100mH wF (fujiwara)	Touchdown_Time (2016.10.10). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (yamamoto)	Touchdown_Time (2016.10.10). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
25-Sep	2016 Japanese National Corporate Championships (Osaka, JPN)	
	100mH wF	Touchdown_Time (2016.09.28). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (yazawa)	Touchdown_Time (2016.09.28). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
24-Sep	2016 Gunma Prefecture High School Championships (Gunma, JPN)	
	100mH wF (ukiya)	Touchdown_Time (2016.09.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (sekiguchi)	Touchdown_Time (2016.09.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
22-Sep	2016 Chiba Prefecture High School Championships (Chiba, JPN)	
	100mH wF (shinga)	Touchdown_Time (2016.09.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (shinyo)	Touchdown_Time (2016.09.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
17-Sep	2016 Kanto Student Championships (Sagamihara, JPN)	
	100mH wF	Touchdown_Time (2016.09.17). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF	Touchdown_Time (2016.09.17). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
16-Sep	2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN)	
	100mH wF (koto)	Touchdown_Time (2016.10.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF (yuuto)	Touchdown_Time (2016.10.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
15-Sep	2016 Chinese National Championships (Tianjin, CHN)	
	400m wF (yang)	Yang H. (2019). China's outstanding women's 400 meters runner Yang Willzhen full running speed characteristics analysis. <i>Social Sciences II</i> , p31, 35, 39. (in Chinese)
9-Sep	2016 Memorial van Damme (Brussels, BEL) (TV Analysis)	
	100mH wF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
4-Sep	2016 Japanese University Championships (Kumagaya, JPN)	
	100mH wF	Touchdown_Time (2016.09.06). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	110mH mF	Touchdown_Time (2016.09.06). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	mSF	Touchdown_Time (2016.09.05). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	400mH wF	Touchdown_Time (2016.09.04). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
1-Sep	2016 Weltklasse (Zürich, SUI)	
	100mH wF	Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
27-Aug	2016 Meeting Paris (Saint-Denis, FRA)	
	100mH wF	Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from http://www.athetefirst.org (TV Analysis)

- 400mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 27-Aug **2016 Kyushu Championships (Kita-Kyushu, JPN)**
110mH mF (nishi) Touchdown_Time (2016.08.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 25-Aug **2016 Athletissime (Luassane, SUI)**
100mH wF Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
400mH mF, wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 18-Aug **2016 Olympic Games (Rio de Janeiro, BRA)**
100m mF (bolt) Vazell, P.J. (2020.08.15) Retrieved from <https://twitter.com/pjvazell/status/1297189365806817280?s=21>
200m mF, mSF, mH Takahashi (2016). Performance analysis of the top 200m sprinters in Japan & abroad. *Bulletin of Studies in Athletics of JAAF*, 12, p 91. (in Japanese)
wF, mF Butler, M. (2021). *Athletics statistics book: Games of the XXXII Olympiad- Tokyo 2020*. World Athletics Communications Department, p102, 193.
400m mF, mH, wF Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
mSF, mH Touchdown_Time (2016.08.15). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
mSF (Janežič) Škraba, Z.P. (2016). 45.07 - 400m analysis of Luka Janežič. Retrieved from <https://zigapskraba.com/2016/10/27/45-07-400m-analysis-of-luka-janezic/>
100mH wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
400mH mF (Clement) Zhou J. (2020). Analysis of the competitive performance characteristics of outstanding men's 400-meter hurdles athletes. *Social Sciences II*, p18, 26. (in Chinese)
wF Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 31-Jul **2016 Windsprint (Sundsvall, SWE)**
100m mA, mB, mC, mH, Andersson, H. (2016) Windsprint 2016 Splittider. Retrieved from www.windsprint/splittider/ (in Swedish)
wA, wB, wH
- 30-Jul **2016 Japanese National High School Championships (Okayama, JPN)**
100m mF, wF Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 3, 43. (in Japanese)
200m mF, wF Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 6, 46. (in Japanese)
400m mF, wF Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
100mH wF Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 58-59. (in Japanese)
110mH mF Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 19. (in Japanese)
400mH mF, wF Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 21, 61. (in Japanese)
- 23-Jul **2016 Spanish National Championships (Gijón, ESP) (TV Analysis)**
110mH mF (2) Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 23-Jul **2016 All-Star Night Athletics (Hiratsuka, JPN)**
100mH wF Touchdown_Time (2016.07.23). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF Touchdown_Time (2016.07.23). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 22-Jul **2016 IAAF World Junior Championships (Bydgoszcz, POL)**
400m mF, mSF, mH, wF, Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
wH4
100mH wF, wSF1 Touchdown_Time (2016.07.25). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (Furuya) Touchdown_Time (2016.07.24). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 22-Jul **2016 London Anniversary Games (London, GBR)**
200m mF Touchdown_Time (2016.07.23). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
wF Touchdown_Time (2016.07.23). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
100mH wF (Harrison) Vazell, P.J. (2016) Analysis of Keni Harrison's World Record 100m Hurdles Race. Retrieved from <https://simplifaster.com/articles/analysis-of-keni-harrisons-world-record-100m-hurdles-race/>
wH (Harrison) Brice, P. (2017) Critical determinants of sprint hurdle performance

	wF, wH	Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	wF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
17-Jul	2016 Six College Meeting (Sagamihara, JPN)	
	110mH mF	Touchdown_Time (2016.07.18). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
15-Jul	2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)	
	110mH mF	Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH wF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
9-Jul	2016 USA Olympic Trials (Eugene, OR)	
	200m mF, mSF, wF	Hymans, R. (2020). History of the US olympic trials - track and field. Los Altos, CA: Track and Field News. p2, 13. Retrieved from: https://trackandfieldnews.com/wp-content/uploads/2019/10/2016.pdf
	400m mF	Track Newsletter (2016). US olympic trials. Track e-Newsletter 15(52). p. 329.
	mF	Track Newsletter (2016). US olympic trials. Track e-Newsletter 15(53). p. 338.
	100mH wF	Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	400mH mF, wF, wSF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
9-Jul	2016 European Championships (Amsterdam, NED)	
	100mH wF (roleder)	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
	110mH mF (basou)	Touchdown_Time (2016.07.08). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	400mH mF, mH	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
2-Jul	2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)	
	110mH mF	Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from http://www.athetefirst.org (TV Analysis)
1-Jul	2016 West Japan University Championships (Kyoto, JPN)	
	110mH mF	Touchdown_Time (2016.07.02). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
25-Jun	2016 Japanese National Championships (Nagoya, JPN)	
	100m mF, mSF, wF	Matsuo (2016). Speed, frequency, and stride analysis of male & female 100m sprinters. Bulletin of Studies in Athletics of JAAF, 12, p 78-79. (in Japanese)
	200m mF, wF	Takahashi (2016). Performance analysis of the top 200m sprinters in japan & abroad. Bulletin of Studies in Athletics of JAAF, 12, p 90. (in Japanese)
	400m mF, mH, wF, wH	Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. Bulletin of Studies in Athletics of JAAF, 12, p 100-101. (in Japanese)
	100mH wF	Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. Bulletin of Studies in Athletics of JAAF, 12, p 117. (in Japanese)
	110mH mF	Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. Bulletin of Studies in Athletics of JAAF, 12, p 115. (in Japanese)
	400mH mF, wF	Morioka (2016). Race pattern of top 400m hurdlers in japan. Bulletin of Studies in Athletics of JAAF, 12, p 120-121. (in Japanese)
19-Jun	2016 Chinese National Grand Prix Final (Chongqing, CHN)	
	400m wF (yang)	Yang H. (2019). China's outstanding women's 400 meters runner Yang Willzhen full running speed characteristics analysis. Social Sciences II, p31, 35, 39. (in Chinese)
19-Jun	2016 Kinki Area High School Championships (Kobe, JPN)	
	100mH wF (tanaka)	Touchdown_Time (2016.06.19). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
18-Jun	2016 Hokusei Shinetsu High School Meeting (Okayama, JPN) (0.99m)	
	110mH mF (kato)	Touchdown_Time (2016.06.18). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
18-Jun	2016 Tokai High School Meeting (Gifu, JPN)	
	100mH wF (furuhashi)	Touchdown_Time (2016.06.18). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
17-Jun	2016 China Perfecture High School Championships (Okayama, JPN)	
	400m mF, wF	Touchdown_Time (2016.06.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
17-Jun	2016 Kanto Area High School Championships (Tokyo, JPN)	
	100mH wF	Touchdown_Time (2016.06.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
16-Jun	2016 Bauhaus Athletics (Stockholm, SWE)	

- 100mH wF Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 11-Jun **2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)**
- 110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 11-Jun **2016 Japanese National Multi-Event Championships (Nagano, JPN)**
- 100m mD (nakamura) Toshiyuki (2016). 100m race analysis of decathletes - 2009-2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 157, 159. (in Japanese)
- 10-Jun **2016 NCAA Championships (Eugene, OR)**
- 200m mF Track Newsletter (2016). NCAA men's championships. *Track e-Newsletter* 15(45). p. 289.
- 400m mF Track Newsletter (2016). NCAA men's championships. *Track e-Newsletter* 15(45). p. 290.
- wF Track Newsletter (2016). NCAA women's championships. *Track e-Newsletter* 15(46). p. 299.
- 10-Jun **2016 Japanese University Championships (Hiratsuka, JPN)**
- 100mH wF (aoki) Touchdown_Time (2016.06.11). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 9-Jun **2016 Bislett Games (Oslo, NOR)**
- 200m wF (schippers) Touchdown_Time (2016.06.09). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 100mH wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 5-Jun **2016 Birmingham Diamond League (Birmingham, GBR)**
- 100mH wF Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 5-Jun **2016 Sparkassen Gala (Regensburg, GER)**
- 100mH wF (talay) Unfried, P. (2016) Austrian Athletics: athlete competition analysis (in German)
- 5-Jun **2016 Fuse Sprint (Tottori, JPN)**
- 100m mF, mH1, wF, wH6 Matsuo (2016). Speed, frequency, and stride analysis of male & female 100m sprinters. *Bulletin of Studies in Athletics of JAAF*, 12, p 78-79. (in Japanese)
- 100mH wF (kimura) Touchdown_Time (2016.06.06). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- wH (kimura) Touchdown_Time (2016.06.07). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 110mH mF Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 12, p 114. (in Japanese)
- mH (yazawa) Touchdown_Time (2016.06.05). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 2-Jun **2016 Golden Gala Pietro Mennea (Roma, ITA)**
- 110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 31-May **2016 Miyazaki Prefecture High School Meeting (Miyazaki, JPN)**
- 110mH mF (makoto) Touchdown_Time (2016.06.01). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 29-May **2016 Hiroshima Prefecture High School Meeting (Hiroshima, JPN)**
- 110mH mF (toyama) Touchdown_Time (2016.05.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 29-May **2016 Niigata Prefecture High School Meeting (Niigata, JPN)**
- 110mH mF Touchdown_Time (2016.05.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 28-May **2016 Prefontaine Classic (Eugene, OR)**
- 100mH wF Henson, T. (2020) Athlete First: 2016 Kendra Harrison world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 28-May **2016 Fukui Prefecture High School Meeting (Fukui, JPN)**
- 100mH wF (wada) Touchdown_Time (2016.06.02). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 28-May **2016 Kagoshima Prefecture High School Meeting (Kagoshima, JPN)**
- 110mH mF (iwakiri) Touchdown_Time (2016.06.02). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 22-May **2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)**

- 110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH wF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 22-May **2016 Kansai Corporate Championships (Nagai, JPN)**
110mH mF (omuro) Touchdown_Time (2016.05.22). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 21-May **2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)**
100m wF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
200m wF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
100mH wF (rard-reuse) Swiss Athletics (2016) Sprint and hurdle analysis (in German)
- 21-May **2016 East Japan Corporate Championships (Kumagaya, JPN)**
110mH mF (yazawa) Touchdown_Time (2016.05.21). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 21-May **2016 Kyoto Prefecture High School Meeting (Kyoto, JPN)**
110mH mF (takata) Touchdown_Time (2016.05.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 20-May **2016 Kansai Business Championships (Osaka, JPN)**
400mH mF TFData-Store (2017.05.22) Retrieved from tfdata-store.com/2017/05/22/post-605/ (in Japanese)
- 20-May **2016 Aichi Prefecture High School Meeting (Nagoya, JPN)**
100mH wF (furuhashi) Touchdown_Time (2016.05.29). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (yashiro) Touchdown_Time (2016.05.29). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 20-May **2016 Kanto Collegiate Championships (Yokohama, JPN)**
100mH wFD1 (hemphill) Touchdown_Time (2016.05.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mFD1 (takayama) Touchdown_Time (2016.05.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 14-May **2016 Shanghai Golden Grand Prix (Shanghai, CHN)**
110mH mF Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
400mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-May **2016 Kansai University Meeting (Osaka, JPN)**
110mH mF (kagimoto) Touchdown_Time (2016.05.30). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 10-May **2016 Saitama Prefecture High School Meeting (Kumagaya, JPN)**
100mH wF (tanaka) Touchdown_Time (2016.05.29). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 8-May **2016 Seiko Golden Grand Prix (Kawasaki, JPN)**
100m mF, wF Matsuo (2016). Speed, frequency, and stride analysis of male & female 100m sprinters. *Bulletin of Studies in Athletics of JAAF*, 12, p 78-79. (in Japanese)
200m mF Takahashi (2016). Performance analysis of the top 200m sprinters in japan & abroad. *Bulletin of Studies in Athletics of JAAF*, 12, p 89. (in Japanese)
400m mF Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
110mH mF Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 12, p 113. (in Japanese)
400mH mF, wF Morioka (2016). Race pattern of top 400m hurdlers in japan. *Bulletin of Studies in Athletics of JAAF*, 12, p 119-120. (in Japanese)
- 8-May **2016 Kinan Memorial (Osaka, JPN)**
100mH wF (kimura) Touchdown_Time (2016.05.11). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
110mH mF (yazawa) Touchdown_Time (2016.05.17). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
400mH mF (tanabe) Touchdown_Time (2016.05.24). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 7-May **2016 Hürden-und Sprintmeeting (Basel, SUI)**
100m mF, wF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
200m mF, wF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
100mH wF (rard-reuse) Swiss Athletics (2016) Sprint and hurdle analysis (in German)
300mH wF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
- 6-May **2016 Doha Diamond League (Doha, QAT) (TV Analysis)**
110mH mF Henson, T. (2020) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
400mH wF Henson, T. (2021) Athlete First: 2016 year end hurdle report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 5-May **2016 Mito Invitational (Mito, JPN)**
110mH mF Touchdown_Time (2016.05.27). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 3-May **2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)**

- 200m mF, wF, wB, wC Takahashi (2016). Performance analysis of the top 200m sprinters in japan & abroad. *Bulletin of Studies in Athletics of JAAF*, 12, p 88. (in Japanese)
- 400m mF, mB, mC, wF, wB, wC Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 100-101. (in Japanese)
- 400mH mF (nozawa), wF (kubokura) Morioka (2016). Race pattern of top 400m hurdlers in japan. *Bulletin of Studies in Athletics of JAAF*, 12, p 118-119. (in Japanese)
- 30-Apr **2016 Wakayama Grand Prix (Wakayama, JPN)**
100m Dec Toshiyuki (2016). 100m race analysis of decathletes - 2009-2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 157, 159. (in Japanese)
- 29-Apr **2016 Mikio Oda Memorial (Hiroshima, JPN)**
100m mF, mH2, wF (breen) Matsuo (2016). Speed, frequency, and stride analysis of male & female 100m sprinters. *Bulletin of Studies in Athletics of JAAF*, 12, p 78-79. (in Japanese)
- 100mH wF Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 12, p 116. (in Japanese)
- 110mH mF Kota (2016). Race analysis of japanese top-ranked men 110m and women 100m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 12, p 112. (in Japanese)
- 16-Apr **2016 Chinese National Grand Prix (Shaoxing, CHN)**
400m wF (yang) Yang H. (2019). China's outstanding women's 400 meters runner Yang Willzhen full running speed characteristics analysis. *Social Sciences II*, p31, 35, 39. (in Chinese)
- 15-Apr **2016 East Java National Championships (Surabaya, INA)**
400m wF Saputri, D. (2016). Analisis kecepatan lari 400m putri final kejuaraan nasional atletik jawa timur terbuka. *Jurnal Ilmu Keolahragaan*, p5. (in Indonesian)
- 27-Feb **2016 Swiss National Indoor Championships (St. Gallen, SUI)**
60m wF, wSF Swiss Athletics (2016) Sprint and hurdle analysis (in German)
- 16-Oct **2015 Japanese National Junior Championships (Nagoya, JPN)**
400m mF, wF Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)
- 110mH mF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 109. (in Japanese)
- 400mH mF, wF Yasunori (2015). Race pattern analysis of the top 400m hurdlers in Japan. *Bulletin of Studies in Athletics of JAAF*, 11, p 72-73. (in Japanese)
- 16-Oct **2015 Japanese National Youth Championships (Nagoya, JPN)**
400m mF, wF Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)
- 400mH wF (murakami) Yasunori (2015). Race pattern analysis of the top 400m hurdlers in Japan. *Bulletin of Studies in Athletics of JAAF*, 11, p 73. (in Japanese)
- 4-Oct **2015 National Sports Festival (Wakayama, JPN)**
400m mF, mFU19, wF, wFU19 Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)
- 24-Sep **2015 Chinese National Championships (Suzhou, CHN)**
400mH wF (huang) Huang Y. (2021). Study of the pre-competition training of women's 400m hurdler Huang Yan - An example of preparation for the 2016 Championships. (Dissertation) Soochow University. p. 24-25. (in Chinese)
- 27-Aug **2015 IAAF World Championships (Beijing, CHN)**
100m
200m mF, mSF, mH, wF, wH Takahashi (2015). 200m race analysis of Japanese and the World best of 2015. *Bulletin of Studies in Athletics of JAAF*, 11, p 126-127. (in Japanese)
- mF Track Newsletter (2015). World championships men's. *Track e-Newsletter* 14(52). p. 371.
- wF Butler, M. (2019). IAAF world athletics championships - Doha 2019: statistics handbook. IAAF Communications Department. p260.
- 400m mF, mH (kanemaru), wF Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)
- mSF, wH Yamamoto (2015). Race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims. *Bulletin of Studies in Athletics of JAAF*, 11, p 103. (in Japanese)
- 100mH wF (1-3) Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами
- wF (4-8) Mirzoev (2015) - Temporal characteristics of technical mastery of 100m hurdles (in Russian)
- wSF (wu) Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 110mH mF Xu Y. (2015) -Tthe 15th world track and field Championships special report: Men's and women's hurdle project. Beijing: Chinese Athletic Association. p. 27-28 (in Chinese)
- mSF (xie) Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 400mH mF, wF Xu Y. (2015) -Tthe 15th world track and field Championships special report: Men's and women's hurdle project. Beijing: Chinese Athletic Association. p. 26 (in Chinese)
- 30-Jul **2015 Japanese National High School Championships (Wakayama, JPN)**
100m mF, wF Enomoto, E. (2015). 68th high school championships: JAF scientific committee - biomechanics data collection. p. 4, 43. (in Japanese)
- 200m mF, wF Enomoto, E. (2015). 68th high school championships: JAF scientific committee - biomechanics data collection. p. 7, 46. (in Japanese)
- 400m mF, wF Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)

- 100mH wF Enomoto, E. (2015). 68th high school championships: JAF scientific committee - biomechanics data collection. p. 58-59. (in Japanese)
- 110mH mF Enomoto, E. (2015). 68th high school championships: JAF scientific committee - biomechanics data collection. p. 19-20. (in Japanese)
- 400mH mF, wF Enomoto, E. (2015). 68th high school championships: JAF scientific committee - biomechanics data collection. p. 22, 61. (in Japanese)
- 27-Jul **2015 Résisprint International (La Chaux-de-Fonds, SUI)**
400m mF (van Niekerk) Vazel, P.-J. (2018). Men's 400m: Historical analysis and coaching commentary. In Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (Eds). *Biomechanical report for the IAAF world championships: London 2017*. Leeds Beckett University, London, GBR. p45.
- 26-Jul **2015 Windsprint (Sundsvall, SWE)**
100m mA, mB, mC, mD, mE, wA, wB, wC Andersson, H. (2015) Windsprint 2015 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
200m mA, mB, wA, wB Andersson, H. (2015) Windsprint 2015 Splittider. Retrieved from www.windsprint/Splittider/ (in Swedish)
- 25-Jul **2015 Italian National Championships (Torino, ITA)**
100mH wF Incalza, P. (FIDAL - Centro Studi & Ricerche) (2015) Retrieved from <https://www.youtube.com/watch?v=E1vh3mZh5kw>
110mH mF Incalza, P. (FIDAL - Centro Studi & Ricerche) (2015) Retrieved from <https://www.youtube.com/watch?v=Ytpg1XHNpfg>
- 24-Jul **2015 Pan American Games (Toronto, CAN)**
110mH mF (thomas) Touchdown_Time (2016.01.29). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 5-Jul **2015 Résisprint International (La Chaux-de-Fonds, SUI)**
400m mF (makwala) Vazel, P.-J. (2015) Van Niekerk and Merritt were on for the record at 300m. Retrieved from <http://track-stats.com/van-niekerk-and-merritt-were-on-for-the-record-at-300m/>
mQF (Haroun) Vazel, P.-J. (2018). Men's 400m: Historical analysis and coaching commentary. In Pollitt, L., Walker, J., Tucker, C., Bissas, A., & Merlino, S. (Eds). *Biomechanical report for the IAAF world championships: London 2017*. Leeds Beckett University, London, GBR. p47.
- 4-Jul **2015 Areva Diamond League Meeting (Saint-Denis, FRA)**
100m mF Vazel, P.J. (2015) Retrieved from <http://vazel.blog.lemonde.fr/2015/07/06/jimmy-vicaut-son-record-deurope-du-100-m-a-la-loupe/> (in French)
- 4-Jul **2015 Japanese National Multi-Event Championships (Nagano, JPN)**
100m Dec Toshiyuki (2016). 100m race analysis of decathletes - 2009-2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 157, 159. (in Japanese)
- 28-Jun **2015 USATF National Championships (Eugene, OR)**
200m mF Track Newsletter (2015). USATF men's championships. *Track e-Newsletter* 14(41). p. 294.
wF Track Newsletter (2015). USATF women's championships. *Track e-Newsletter* 14(42). p. 301.
400m mF Track Newsletter (2015). USATF men's championships. *Track e-Newsletter* 14(41). p. 295.
wF Track Newsletter (2015). USATF women's championships. *Track e-Newsletter* 14(42). p. 302.
- 28-Jun **2015 Japanese National Championships (Niigata, JPN)**
100m mF, mH, wF, wSF, wH Matsuo (2015). 2015 men's & women's 100m race analysis. *Bulletin of Studies in Athletics of JAAF*, 11, p 145-146. (in Japanese)
200m mF, wF Takahashi (2015). 200m race analysis of Japanese and the World best of 2015. *Bulletin of Studies in Athletics of JAAF*, 11, p 125. (in Japanese)
400m mF, mH, wF Kohei (2015). 400m race analysis of male & female at major 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 129, 132. (in Japanese)
100mH wF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 112. (in Japanese)
110mH mF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 109. (in Japanese)
400mH mF, wF Yasunori (2015). Race pattern analysis of the top 400m hurdlers in Japan. *Bulletin of Studies in Athletics of JAAF*, 11, p 71. (in Japanese)
- 13-Jun **2015 NCAA Championships (Eugene, OR)**
200m mF Track Newsletter (2015). NCAA men's championships. *Track e-Newsletter* 14(38). p. 271.
wF Track Newsletter (2015). NCAA women's championships. *Track e-Newsletter* 14(39). p. 280.
400m mF Track Newsletter (2015). NCAA men's championships. *Track e-Newsletter* 14(38). p. 272.
wF Track Newsletter (2015). NCAA women's championships. *Track e-Newsletter* 14(39). p. 281.
- 4-Jun **2015 Asian Championships (Wuhan, CHN)**
400m wF (yang) Yang H. (2019). China's outstanding women's 400 meters runner Yang Willzhen full running speed characteristics analysis. *Social Sciences II*, p31, 35, 39. (in Chinese)
- 20-May **2015 World Challenge (Beijing, CHN)**
100mH wF (wu) Liu W. (2017) A study on the characteristics of speed rhythm of athletes at different levels of women's 100m hurdles. (Dissertation). p. 34. (in Chinese)
- 17-May **2015 Golden Grand Prix (Shanghai, CHN)**
110mH mF (xie) Wang S. (2016). Analysis of technical characteristes and performace prediction of rising star Xie Wenjun in 110m Hurdles. *Social Sciences II*, p16. (in Chinese)
- 10-May **2015 Seiko Golden Grand Prix (Kawasaki, JPN)**
100m mF, wF Matsuo (2015). 2015 men's & women's 100m race analysis. *Bulletin of Studies in Athletics of JAAF*, 11, p 145-146. (in Japanese)
200m mF, wF Takahashi (2015). 200m race analysis of Japanese and the World best of 2015. *Bulletin of Studies in Athletics of JAAF*, 11, p 124. (in Japanese)

- 100mH wF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 112. (in Japanese)
- 400mH mF, wF Yasunori (2015). Race pattern analysis of the top 400m hurdlers in Japan. *Bulletin of Studies in Athletics of JAAF*, 11, p 70. (in Japanese)
- 3-May **2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
- 100mH wF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 111. (in Japanese)
- 110mH mF Takashima (2015). Race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions. *Bulletin of Studies in Athletics of JAAF*, 11, p 109. (in Japanese)
- 400mH mF, mB Yasunori (2015). Race pattern analysis of the top 400m hurdlers in Japan. *Bulletin of Studies in Athletics of JAAF*, 11, p 69. (in Japanese)
- 25-Apr **2015 Wakayama Grand Prix (Wakayama, JPN)**
- 100m Dec Toshiyuki (2016). 100m race analysis of decathletes - 2009-2016. *Bulletin of Studies in Athletics of JAAF*, 12, p 157, 159. (in Japanese)
- 19-Apr **2015 Mikio Oda Memorial (Hiroshima, JPN)**
- 100m mF, mH, wF, wH Matsuo (2015). 2015 men's & women's 100m race analysis. *Bulletin of Studies in Athletics of JAAF*, 11, p 145-146. (in Japanese)
- 200m mF, wF Takahashi (2015). 200m race analysis of Japanese and the World best of 2015. *Bulletin of Studies in Athletics of JAAF*, 11, p 123. (in Japanese)
- 28-Mar **2015 Texas Relays (Austin, TX)**
- 100m mF (kiryu) TFDData-Store (2017.03.29) Retrieved from tfdata-store.com/2017/03/29/post-73/
- 14-Feb **2015 Czech Republic National U20 Indoor Championships (Praha, CZE)**
- 60mH mF, wF Feher, J., & Kaplan, A. (2015). Final report from the U18 & U20 Czech Republic indoor national championships, 60m Hurdles. *Katedra atletiky UK FTVS: Praha, CZE. (in Czech).*
- 14-Feb **2015 Czech Republic National U18 Indoor Championships (Praha, CZE)**
- 60mH mF, wF Feher, J., & Kaplan, A. (2015). Final report from the U18 & U20 Czech Republic indoor national championships, 60m Hurdles. *Katedra atletiky UK FTVS: Praha, CZE. (in Czech).*
- 11-Oct **2014 Chinese National Championships (Suzhou, CHN)**
- 100mH wF (deng) Deng R. (2016). China's outstanding women's 100-meter hurdles athlete Deng Ru 2014 winter training arrangement research. *Social Sciences II*, p21. (in Chinese)
- 400mH wF (huang) Huang Y. (2021). Study of the pre-competition training of women's 400m hurdler Huang Yan - An example of preparation for the 2016 Championships. (Dissertation) Soochow University. p. 24-25. (in Chinese)
- 3-Oct **2014 Japanese National Junior Championships (Nagoya, JPN)**
- 110mH mSF (furuya) Kota, T., Kazuhito, K., Watanabe, A., Fukuda, A., Kawabata, R., Kohei, Y., Takashi, W., Katsuhiko, O. & Hinokawa. (2017). 70th high school championships: JAF scientific committee - biomechanics data collection. p. 19-20. (in Japanese)
- 29-Sep **2014 Asian Games (Incheon, KOR)**
- 100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)
- 400m mF Maho (2014). Race analysis of men's 400m run in the 2014 season. *Bulletin of Studies in Athletics of JAAF*, 10, p 76. (in Japanese)
- Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 127. (in Japanese)
- 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. *Sport Science Research*, 37 (5), p. 4. (in Chinese)
- Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 128. (in Japanese)
- 31-Aug **2014 Kanto Championships (Sagamihara, JPN)**
- 110mH mSF (furuya) Touchdown_Time (2017.03.01). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 14-Aug **2014 European Championships (Zurich, SUI)**
- 200m mH (desalu) Incalza, P. (2014) Retrieved from www.youtube.com/watch?v=tpgO9k0qvE&list=UU7691fXeyNFIMOfkJ-WWUg
- 400m wF (grenot) Incalza, P. (2014) Retrieved from <https://www.youtube.com/watch?v=09I9yDmjZus&list=UU7691fXeyNFIMOfkJ-WWUg>
- 110mH mH Incalza, P. (2014) Retrieved from <https://www.youtube.com/watch?v=wFOM-j9iZHE&list=UU7691fXeyNFIMOfkJ-WWUg>
- 400mH mF Green (2015) - twitter.com/jackpgreen (from Behm?)
- wSF (pedroso) Incalza, P. (2014) Retrieved from FIDAL - <https://www.youtube.com/watch?v=EnXl2yLcGsg&list=UU7691fXeyNFIMOfkJ-WWUg>
- 2-Aug **2014 Czech Republic National Championships (Ostrava, CZE)**
- 100mH wF, wH Feher, J., & Kaplan, A. (2014). Final report from the Czech Republic national championships, 100m & 110m Hurdles. *Katedra atletiky UK FTVS: Praha, CZE. (in Czech).*
- 110mH mF, mH Feher, J., & Kaplan, A. (2014). Final report from the Czech Republic national championships, 100m & 110m Hurdles. *Katedra atletiky UK FTVS: Praha, CZE. (in Czech).*
- 31-Jul **2014 Japanese National High School Championships (Kofu, JPN)**
- 100m mF, wF Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 99. (in Japanese)
- 200m mF Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 100. (in Japanese)

- 400m mF, wF Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 101. (in Japanese)
- 100mH wF Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 103. (in Japanese)
- 110mH mF Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 102. (in Japanese)
- 400mH wF (arashima) Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 104. (in Japanese)
- 25-Jul **2014 IAAF World Junior Championships (Eugene, OR)**
- 200m mF Track Newsletter (2014). World junior championships men. Track e-Newsletter 13(47). p. 282.
- wF Track Newsletter (2014). World junior championships women. Track e-Newsletter 13(48). p. 289.
- 400m mF, mSF Maho (2014). Race analysis of men's 400m run in the 2014 season. Bulletin of Studies in Athletics of JAAF, 10, p 76. (in Japanese)
- wF Track Newsletter (2014). World junior championships men. Track e-Newsletter 13(47). p. 290.
- 20-Jul **2014 Windsprint (Sundsvall, SWE)**
- 100m mA, mB, mC, mD, mE, mF, mG, wA, wB, wC, wD Andersson, H. (2014) Windsprint 2014 Splittider. Retrieved from www.ssg.se/windsprint/Splittider/ (in Swedish)
- 200m mA, mB, mC, mD, mE, mF, mG, mH, wA, wB, wC, wD, wE, wF Johansen, B. (2014) Windsprint 2014 Splittider. Retrieved from www.ssg.se/windsprint/Splittider/ (in Swedish)
- 29-Jun **2014 USATF National Championships (Sacramento, CA)**
- 200m mF Track Newsletter (2014). USATF men's championships. Track e-Newsletter 13(39). p. 247.
- wF Track Newsletter (2014). USATF women's championships. Track e-Newsletter 13(40). p. 253.
- 400m mF Track Newsletter (2014). USATF men's championships. Track e-Newsletter 13(39). p. 248.
- wF Track Newsletter (2014). USATF women's championships. Track e-Newsletter 13(40). p. 254.
- 28-Jun **2014 Czech Republic National U20 Championships (Trinec, CZE)**
- 100m mF, mH, wF, wH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 100mH wF, wH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m & 110m Hurdles. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 110mH mF, mH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m & 110m Hurdles. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 28-Jun **2014 Czech Republic National U18 Championships (Trinec, CZE)**
- 100m mF, mH, wF, wH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 100mH wF, wH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m & 110m Hurdles. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 110mH mF, mH Feher, J. (2014). Final report from the U18 & U20 Czech Republic national championships, 100m & 110m Hurdles. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 14-Jun **2014 NCAA Championships (Eugene, OR)**
- 200m mF Track Newsletter (2014). NCAA men's championships. Track e-Newsletter 13(35). p. 220.
- wF Track Newsletter (2014). NCAA women's championships. Track e-Newsletter 13(36). p. 229.
- 400m mF Track Newsletter (2014). NCAA men's championships. Track e-Newsletter 13(35). p. 221.
- wF Track Newsletter (2014). NCAA women's championships. Track e-Newsletter 13(36). p. 230.
- 14-Jun **2014 adidas (New York, NY)**
- 400m mF (van niekerk) Vazel, P.-J. (2016). How van Niekerk broke the 400m world record. Retrieved from www.track-stats.com
- 8-Jun **2014 Japanese National Championships (Fukushima, JPN)**
- 100m mF, mSF, mH, wH Akirabun (2014). The relationship between pitch and stride in the men's and women's 100m race. Bulletin of Studies in Athletics of JAAF, 10, p 66. (in Japanese)
- 400m mF Maho (2014). Race analysis of men's 400m run in the 2014 season. Bulletin of Studies in Athletics of JAAF, 10, p 76. (in Japanese)
- 110mH mF Touchdown_Time (2017.02.22). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en (in Japanese)
- mSF (yazawa) Touchdown_Time (2017.02.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en (in Japanese)
- mSF (masuno) Touchdown_Time (2017.02.27). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en (in Japanese)
- 400mH mF, wF Yasunori (2014). Race pattern analysis of Japanese top 400m hurdlers for major domestic competitions. Bulletin of Studies in Athletics of JAAF, 10, p 98. (in Japanese)
- 7-Jun **2014 Sparkassen Gala (Regensburg, GER)**
- 100mH wF, wH Buckwitz, R. (2014) OSP Berlin / DLV frauen hürden report (in German)
- 31-May **2014 Japanese National Multi-Event Championships (Nagano, JPN)**
- 100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese)
- 400m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 127. (in Japanese)
- 110mH Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 128. (in Japanese)
- 18-May **2014 Golden Grand Prix (Shanghai, CHN)**

- 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. *Sport Science Research*, 37 (5), p. 4. (in Chinese)
- 11-May **2014 Seiko Golden Grand Prix (Tokyo, JPN)**
 100m mF, wF Matsuo (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 31, 34. (in Japanese)
 mF, wF Akirabun (2014). The relationship between pitch and stride in the men's and women's 100m race. *Bulletin of Studies in Athletics of JAAF*, 10, p 66. (in Japanese)
 400mH mF Yasunori (2014). Race pattern analysis of Japanese top 400m hurdlers for major domestic competitions. *Bulletin of Studies in Athletics of JAAF*, 10, p 97. (in Japanese)
- 3-May **2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
 200m mF, mB Koyama (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 25. (in Japanese)
 400m mF Maho (2014). Race analysis of men's 400m run in the 2014 season. *Bulletin of Studies in Athletics of JAAF*, 10, p 76. (in Japanese)
 400mH mF, mB, mC, wF Yasunori (2014). Race pattern analysis of Japanese top 400m hurdlers for major domestic competitions. *Bulletin of Studies in Athletics of JAAF*, 10, p 95-96. (in Japanese)
- 29-Apr **2014 Mikio Oda Memorial (Hiroshima, JPN)**
 100m mA, mB, mH, R1, R2 Koyama (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 20-21. (in Japanese)
 mF, mH, wF, wH Akirabun (2014). The relationship between pitch and stride in the men's and women's 100m race. *Bulletin of Studies in Athletics of JAAF*, 10, p 66. (in Japanese)
- 26-Apr **2014 Nittai University Distance Meeting (Wakayama, JPN)**
 100m Dec (otebe) Matsuo (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 13. (in Japanese)
 Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)
 400m Dec (otebe) Matsuo (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 14. (in Japanese)
 Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 127. (in Japanese)
 110mH Dec (otebe) Matsuo (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 14. (in Japanese)
 Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 128. (in Japanese)
- 20-Apr **2014 Chinese National Grand Prix (Zhaoqing, CHN)**
 100mH wF (deng) Deng R. (2016). China's outstanding women's 100-meter hurdles athlete Deng Ru 2014 winter training arrangement research. *Social Sciences II*, p21. (in Chinese)
- 20-Apr **2014 Izumo Athletics Games (Izumo, JPN)**
 100m mA, mB, mC, mH Matsuo (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 9. (in Japanese)
- 22-Feb **2014 Italian National Indoor Championships (Ancona, ITA)**
 60mH mF (dal molin) FIDAL - Centro Studi & Ricerche (2014) Retrieved from www.youtube.com/watch?v=bF4QEgg7shU
 wF FIDAL - Centro Studi & Ricerche (2014) Retrieved from www.youtube.com/watch?v=7_FeLg_p08Y
- 19-Oct **2013 Japanese Corporate Championships (Hiratsuka, JPN)**
 110mH mF (yazawa) Touchdown_Time (2016.11.18). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 13-Aug **2013 IAAF World Championships (Moscow, RUS)**
 100m Track Newsletter (2013). World championships men. *Track e-Newsletter* 12(51). p. 503.
 200m mF Track Newsletter (2013). World championships women. *Track e-Newsletter* 12(52). p. 517.
 wF (2013) Retrieved from www.trackandfieldnews.com/index.php?option=com_content&view=article&id=1698
 400m mF Track Newsletter (2013). World championships women. *Track e-Newsletter* 12(52). p. 518.
 wF Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 110mH mF Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 400mH mF, wF Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 31-Jul **2013 Japanese National High School Championships (Oita, JPN)**
 100m mF, wF Matsuo, A. (2013). 66th high school championships: JAF scientific committee - biomechanics data collection. p. 3, 5. (in Japanese)
 200m mF (kiryu) Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 100. (in Japanese)
 400m mF, wF Matsuo, A. (2013). 66th high school championships: JAF scientific committee - biomechanics data collection. p. 7, 9. (in Japanese)
 mF (kato), wF (oki) Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 104. (in Japanese)
- 28-Jul **2013 Windsprint (Sundsvall, SWE)**

- 100m mA, mB, mC, mD, mE, mF, mG, mH, mH8, wA, wB, wC, wD
 200m mF, mB, wF, wB
 100mH wF
 110mH mF
 Andersson, H. (2013) Windsprint 2013 Splittider. Retrieved from www.ssg.se/windsprint/Splittider/ (in Swedish)
- 4-Jul **2013 Athletissima Diamond League Meeting (Lausanne, SUI)**
 100mH wF (pearson) Vazel (2013) - hurdle observations
- 22-Jun **2013 USATF National Championships (Des Moines, IA)**
 100mH wF (rollins) Touchdown_Time (2015.09.20). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 16-Jun **2013 Chinese National Grand Prix Final (Shenyang, CHN)**
 400mH mF (li) Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)
- 15-Jun **2013 Czech Republic National Championships (Tábor, CZE)**
 100m mF, mH, wF, wH Feher, J. (2013). Final report from the men's & women's Czech Republic national championships - sprints. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
 200m mF, mH, wF, wH Feher, J. (2013). Final report from the men's & women's Czech Republic national championships - sprints. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
 100mH wF, wH Feher, J. (2013). Final report from the men's & women's Czech Republic national championships - sprints. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
 110mH mF, mH Feher, J. (2013). Final report from the men's & women's Czech Republic national championships - sprints. Katedra atletiky UK FTVS: Praha, CZE. (in Czech).
- 15-Jun **2013 Italian National Junior Championships (Rieti, ITA) (0.99m)**
 110mH mF (perini) FIDAL - Centro Studi & Ricerche (2013) Retrieved from www.youtube.com/watch?v=IGr3fQGxe1c
- 13-Jun **2013 European U23 Championships (Tampere, FIN)**
 200m wF (hooper) FIDAL - Centro Studi & Ricerche (2013) Retrieved from www.youtube.com/watch?v=MpQ2zdXjX-w
- 7-Jun **2013 NCAA Championships (Eugene, OR)**
 400m mF Track Newsletter (2013). NCAA men's championships. Track e-Newsletter 12(39). p. 391.
- 7-Jun **2013 Japanese National Championships (Chofu, JPN)**
 100m mH (kawatsura), wF (fujimori), wH (kimura) Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. Bulletin of Studies in Athletics of JAAF, 9, p 51. (in Japanese)
 400m wF (sugiura) Yamamoto (2016). Race analysis of male & female 400m runners at major competitions in 2016. Bulletin of Studies in Athletics of JAAF, 12, p 100-101. (in Japanese)
 110mH mF, mSF, mH Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. Bulletin of Studies in Athletics of JAAF, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- 1-Jun **2013 Japanese National Multi-Event Championships (Nagano, JPN)**
 100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese)
 400m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 127. (in Japanese)
 110mH Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 128. (in Japanese)
- 30-May **2013 Chinese National Championships (Suzhou, CHN)**
 400mH mF (li) Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)
- 25-May **2013 Great CityGames (Manchester, GBR) (150m straightaway)**
 150m mF, wF Jalava, M. (2013) Retrieved from www.tilastopaja.org
 mF, wF Minshull, P. (2013). World bests for Shakes-Drayton and Felix in Manchester. Retrieved from www.iaaf.org.
- 18-May **2013 Golden Grand Prix (Shanghai, CHN)**
 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
- 5-May **2013 Seiko Golden Grand Prix (Tokyo, JPN)**
 110mH mF Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. Bulletin of Studies in Athletics of JAAF, 9, p 51. (in Japanese)
- 4-May **2013 Mito Invitational Athletics Meeting (Mito, JPN)**
 110mH mF, mH Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. Bulletin of Studies in Athletics of JAAF, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- 29-Apr **2013 Mikio Oda Memorial (Hiroshima, JPN)**
 100m mF, mH3 Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. Bulletin of Studies in Athletics of JAAF, 9, p 51. (in Japanese)
 110mH mF, mH Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. Bulletin of Studies in Athletics of JAAF, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- 28-Apr **2013 Chinese National Grand Prix (Zhaoqing, CHN)**
 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
 400mH mF (li) Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)

wF Deng X. (2015). Training practice research of Deng Xiaoping, a women's 400-meter hurdler. (Dissertation) Wuhan Polytechnic University. p.20. (in Chinese)

26-Apr **2013 Wakayama Athletics Meeting (Wakayama, JPN)**

100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)

400m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 127. (in Japanese)

110mH Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 128. (in Japanese)

2-Mar **2013 European Indoor Championships (Göteborg, SWE)**

60m mF, mSF1, wF Blomkvist, B. (2013) Retrieved from www.elitlandslag.se/SprintHäck/KortHäck.aspx (in Swedish)

60mH mHep, mF, mSF, mH, wF wPent Blomkvist, B. (2013) Retrieved from www.elitlandslag.se/SprintHäck/KortHäck.aspx (in Swedish)

23-Feb **2013 Italian National Indoor Junior Championships (Ancona, ITA) (0.99m)**

60mH mF (perini) FIDAL - Centro Studi & Ricerche (2013) Retrieved from www.youtube.com/watch?v=Egf_xlSp-DI

23-Feb **2013 Italian National Indoor Youth Championships (Ancona, ITA) (0.91m)**

60mH mF FIDAL - Centro Studi & Ricerche (2013) Retrieved from www.youtube.com/watch?v=Egf_xlSp-DI

16-Feb **2013 Italian National Indoor Championships (Ancona, ITA)**

60mH wF (borsi) FIDAL - Centro Studi & Ricerche (2013) Retrieved from www.youtube.com/watch?v=V4AE5H14hl

6-Oct **2012 Kokutai National Sport Festival (Gifu, JPN)**

100m mSF2, wSF Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013.

(shimizu) *Bulletin of Studies in Athletics of JAAF*, 9, p 51. (in Japanese)

400m mF Maho (2013). Race analysis of the men's 400m run in competition. *Bulletin of Studies in Athletics of JAAF*, 9, p 67. (in Japanese)

23-Sep **2012 Chinese National Championships (Kunshan, CHN)**

100mH wF (deng) Liu Z. (2013). Study of winter training of chinese hurdler Deng Ru for the 12th national games. (Dissertation) Beijing Sport University. p. 18. (in Chinese)

400mH mF (li) Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)

12-Sep **2012 Great North CityGames (Newcastle, GBR) (150m straightaway)**

150m mF, wF Jalava, M. (2012) Retrieved from www.tilastopaja.org

7-Sep **2012 Memorial Van Damme (Brussels, BEL)**

110mH mF (merritt) May, J., & Graubner, R. (2012) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)

mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)

2-Sep **ISTAF (Berlin, GER)**

mF Henson, T. (2021) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)

26-Aug **2012 AVIVA Grand Prix (Birmingham, GBR)**

110mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)

8-Aug **2012 Olympic Games (London, GBR)**

100m Dec (Ushiro) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)

mF (Bolt) Mackala, K. (2013). - a kinematics analysis of three best 100m performances ever

mF (blake, powell) Zhang C., & Liu L. (2016). Analysis of the winning factors in the men's 100-meter running final of the 30th Olympic Games. Hunan Province, General University Teaching Reform Research Project, 118, p66. (in Chinese)

mF (gatlin) Vazal, PJ (2020.08.05) Retrieved from <https://twitter.com/pjvazal/status/1297188878311284745?s=21>

200m mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p80, 232.

400m Dec (Ushiro) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 127. (in Japanese)

mSF, mH, wSF, wH Hadley, T. (2012). UKA 2012 Olympic Games report: 400m, 4x400m. UK Athletics; London, GBR.

mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p86, 235.

100mH wF Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)

wH (kimura) Touchdown_Time (2016.10.31). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)

Hep (ennis) Hollman, J., Eddie, K., & Curds, M. (2012). UKA 2012 Olympic Games report: Combined events. UK Athletics; London, GBR. p6.

110mH Dec (Ushiro) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 128. (in Japanese)

mF (merritt) Graubner, R. (2012) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)

mF, mSF, mH Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)

msf, mH (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. *Sport Science Research*, 37 (5), p. 4. (in Chinese)

400mH mF, mSF, mH, wF Hillier, J. (2012). UKA 2012 Olympic Games report: 400m Hurdles. UK Athletics; London, GBR.

mH (taylor) Haines, M. (2012) Retrieved from mikehainesperformance.wordpress.com/2012/08/05/broadening-my-horizons-400m-hurdles-analysis

- 30-Jul **2012 Japanese National High School Championships (Niigata, JPN)**
 100m mF, wF Yasunori, M. (2012). 65th high school championships: JAF scientific committee - biomechanics data collection. p. 4, 5. (in Japanese)
 200m mF, wF Yasunori, M. (2012). 65th high school championships: JAF scientific committee - biomechanics data collection. p. 10, 13. (in Japanese)
 400m mF, wF Yasunori, M. (2012). 65th high school championships: JAF scientific committee - biomechanics data collection. p. 16, 19. (in Japanese)
 400mH wF (arashima) Yanagiya (2014) - research on athlete performance and technique- 2014 data book. JAAF. Sugita, M., & Miura, K. (Eds.). p. 104. (in Japanese)
- 20-Jul **2012 Herculis Meeting International D'Athlétisme (Monaco, MON)**
 110mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-Jul **2012 AVIVA London Grand Prix (London, GBR)**
 110mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
 mH2 Henson, T. (2021) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 8-Jul **2012 Italian National Championships (Napoli, ITA)**
 400mH mF (bencosme) FIDAL - Centro Studi & Ricerche (2012) Retrieved from www.youtube.com/watch?v=Jmz79eerIOs
- 6-Jul **2012 Areva Diamond League Meeting (Saint-Denis, FRA)**
 100mH wF (pearson) Vazel (2013) - hurdle observations
- 30-Jun **2012 USA Olympic Trials (Eugene, OR)**
 200m mF, wF Hymans, R. (2020). History of the US olympic trials - track and field. Los Altos, CA: Track and Field News. p1-2, 13. Retrieved from: <https://trackandfieldnews.com/wp-content/uploads/2019/10/2012.pdf>
 400m mF, wF Hymans, R. (2020). History of the US olympic trials - track and field. Los Altos, CA: Track and Field News. P2, 13-14. Retrieved from: <https://trackandfieldnews.com/wp-content/uploads/2019/10/2012.pdf>
 110mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org>
- 24-Jun **2012 Chinese National Grand Prix Final (Fuzhou, CHN)**
 100mH wF (deng) Liu Z. (2013). Study of winter training of chinese hurdler Deng Ru for the 12th national games. (Dissertation) Beijing Sport University. p. 16. (in Chinese)
 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
- 23-Jun **2012 British National Championships (Birmingham, GBR)**
 100mH wF (ennis) Hollman, J., Eddie, K., & Curds, M. (2012). UKA 2012 Olympic Games report: Combined events. UK Athletics; London, GBR. p6.
- 12-Jun **2012 Windsprint (Sundsvall, SWE)**
 100m mF, mB, mC, mD, mE, mF, wF, wB, wC, wD Andersson, H.(2012) Windsprint 2012 Splittider. Retrieved from www.elitlandslag.se/SprintHäck/KortSprint.aspx (in Swedish)
 200m mF, mB, mC, mD, mE, wF, wB, wC Andersson, H.(2012) Windsprint 2012 Splittider. Retrieved from www.elitlandslag.se/SprintHäck/KortSprint.aspx (in Swedish)
 100mH wF Blomkvist, B. (2012) Retrieved from www.sub13.se (in Swedish)
 110mH mF, mH Blomkvist, B. (2012) Retrieved from www.sub13.se (in Swedish)
- 8-Jun **2012 Japanese National Championships (Osaka, JPN)**
 100m mH (kuki), wH Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. Bulletin of Studies in Athletics of JAAF, 9, p 51. (in Japanese)
 400m mF Maho (2013). Race analysis of the men's 400m run in competition. Bulletin of Studies in Athletics of JAAF, 9, p 67. (in Japanese)
 110mH mF, mSF, mH Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. Bulletin of Studies in Athletics of JAAF, 9, p 77, 79, 81, 83, & 85. (in Japanese)
 400mH mF, wF Yasunori (2013). Race pattern analysis for the top Japanese 400m hurdlers in major domestic competitions. Bulletin of Studies in Athletics of JAAF, 9, p 88. (in Japanese)
- 2-Jun **2012 Prefontaine Classic (Eugene, OR)**
 110mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 2-Jun **2012 Japanese National Multi-Event Championships (Nagano, JPN)**
 100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese)
 400m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 127. (in Japanese)
 110mH Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 128. (in Japanese)
- 27-May **2012 Chinese National Grand Prix (Zibo, CHN)**
 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
- 20-May **2012 Great CityGames (Manchester, GBR) (200m straightaway)**
 150m mF, mB, wF Jalava, M. (2012) Retrieved from www.tilastopaja.org
 200m mF, wF Jalava, M. (2012) Retrieved from www.tilastopaja.org
- 19-May **2012 Golden Grand Prix (Shanghai, CHN)**

- 110mH mF Feng L. & Chen T. (2016) Liu Xiang's seven-step starting: A discussion on the key issues of 110m hurdles technical training. *Journal of Ningbo Institute of Education*, 18 (3). p. 66. (in Chinese)
- mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 16-May **2012 Colorful Daegu Meeting (Daegu, KOR)**
- 110mH mF Henson, T. (2021) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 13-May **2012 Kanto (Tokyo, JPN)**
- 110mH mF (omuro) Karube, S. (2013) The analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle. *Hosei University Sports and Health Studies*. p. 21 (in Japanese)
- 6-May **2012 Seiko Golden Grand Prix (Kawasaki, JPN)**
- 100m wF (felix) Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. *Bulletin of Studies in Athletics of JAAF*, 9, p 51. (in Japanese)
- 110mH mF Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. *Bulletin of Studies in Athletics of JAAF*, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- mF (liu) Karube, S. (2013) The analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle. *Hosei University Sports and Health Studies*. p. 21 (in Japanese)
- 4-May **2012 Arkansas Twilight (Fayetteville, AR)**
- 110mH mF, mH (merritt) Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org>
- 4-May **2012 Mito Invitational Athletics Meeting (Mito, JPN)**
- 110mH mF Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. *Bulletin of Studies in Athletics of JAAF*, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- 3-May **2012 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
- 400mH mF, mB, mD, wF Yasunori (2013). Race pattern analysis for the top Japanese 400m hurdlers in major domestic competitions. *Bulletin of Studies in Athletics of JAAF*, 9, p 87. (in Japanese)
- 29-Apr **2012 Mikio Oda Memorial (Hiroshima, JPN)**
- 100m mH, wF, wH Akirabun (2013). Speed change and the highest speed section appearance in the 100m race of 2012 and 2013. *Bulletin of Studies in Athletics of JAAF*, 9, p 51. (in Japanese)
- 110mH mF, mB Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. *Bulletin of Studies in Athletics of JAAF*, 9, p 77, 79, 81, 83, & 85. (in Japanese)
- 29-Apr **2012 Chinese National Grand Prix (Wuhan, CHN)**
- 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. *Sport Science Research*, 37 (5), p. 4. (in Chinese)
- 21-Apr **2012 Tokyo Athletics Championships (Chofu, JPN)**
- 100m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)
- 400m Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 127. (in Japanese)
- 110mH Dec Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 128. (in Japanese)
- 11-Mar **2012 IAAF World Indoor Championships (Istanbul, TUR)** (TV Analysis)
- 60mH mF Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 3-Mar **2012 Melbourne Track Classic (Melbourne, AUS)**
- 100mH wF (pearson) kitkat1 (2012) Retrieved from www.charliefrancis.com/community/showthread.php?22163-Sally-Pearson-s-12-49
- 26-Feb **2012 USATF National Indoor Championships (Albuquerque, NM) (Altitude)**
- 60mH mF (merritt) Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org> (TV Analysis)
- 25-Feb **2012 Czech Republic National Indoor Championships (Praha, CZE)**
- 60m mF, mSF, mH Feher, J. (2012). Czech Republic indoor national championships - men's 60m. *Katedra atletiky UK FTVS: Praha, CZE*. (in Czech).
- wF, wSF, wH Feher, J. (2012). Czech Republic indoor national championships - women's 60m. *Katedra atletiky UK FTVS: Praha, CZE*. (in Czech).
- 60mH wF, wH Feher, J. (2012). Czech Republic indoor national championships - women's 60m hurdles. *Katedra atletiky UK FTVS: Praha, CZE*. (in Czech).
- mF, mH Feher, J. (2012). Czech Republic indoor national championships - men's 60m hurdles. *Katedra atletiky UK FTVS: Praha, CZE*. (in Czech).
- 25-Feb **2012 Italian National Indoor Championships (Ancona, ITA)**
- 60mH mF (dal molin) FIDAL - Centro Studi & Ricerche (2012) Retrieved from www.youtube.com/watch?v=SIDALf6RdBY
- wF FIDAL - Centro Studi & Ricerche (2012) Retrieved from www.youtube.com/watch?v=_GzCpvpvayL8
- 18-Feb **2012 Italian National Indoor Junior Championships (Ancona, ITA) (0.99m)**
- 60mH mF (perini) FIDAL - Centro Studi & Ricerche (2012) Retrieved from www.youtube.com/watch?v=SU_c9jUKwsw
- 18-Feb **2012 Italian National Indoor Youth Championships (Ancona, ITA) (0.91m)**
- 60mH mF (faragona) FIDAL - Centro Studi & Ricerche (2012) Retrieved from www.youtube.com/watch?v=SIDALf6RdBY
- 18-Feb **2012 Aviva Grand Prix (Birmingham, GBR)**
- 60mH mF (liu) Wang Y., & Hu K. (2012). Analysis of the time characteristics of Liu Xiang in his first 110m hurdles competition of 2012. *Social Sciences II*, p 67. (in Chinese)
- 13-Jan **2012 Leonard Hilton Memorial Invitational (Houston, TX)**
- 60mH mF (merritt) Henson, T. (2020) Athlete First: 2012 Aries Merritt world record season. Retrieved from <http://www.athetefirst.org>

- 16-Sep **2011 Van Damme Memorial (Bruxelles, BEL)**
200m mF (blake) Lee, J. & Ferrara, A. (2017) Retrieved from peedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/
- 9-Sep **2011 Chinese National Championships (Hefei, CHN)**
400mH mF (li) Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)
- 28-Aug **2011 IAAF World Championships (Daegu, KOR)**
100m mF, mH7, mH5, wF KSSB (2011). Men's & Women's 100m. Biomechanical research project report in the iaaf world championships, Daegu 2011. Korean Society of Sport Biomechanics; Daegu, KOR. P17-18, 27-28.
mSF2, mH6 (bolt) KSSB. (2011). Quick Report - Usain Bolt 100m. Scientific research project biomechanical analysis at the IAAF world Championships Daegu 2011. Korean Society of Sport Biomechanics; Daegu, KOR.
wSF (mang), wH (mang) Marchand, O. (2011). Une étape encourageante vers 2012 pour Véronique Mang, Revue de l'AEFA, (203), P26-27.
200m mF, wF Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p84, 212.
mF, mSF, wF KSSB. (2011). Men & Women's 200m. Scientific research project biomechanical analysis at the IAAF world Championships Daegu 2011. Korean Society of Sport Biomechanics; Daegu, KOR.
mSF, mH, wSF, wH Kyohei (2012). The run performance of the 2011 world and japanese top 200m sprinters. Bulletin of Studies in Athletics of JAAF, 6, p 33-34. (in Japanese)
400m mF, wF Butler, M. (2013). IAAF world athletic results 2008-2011: Full results. Monaco, MON; IAAF. p591, 617-618.
100mH wF, wH KSSB. (2011). 100m Hurdle Women - Final, & Round 1. Scientific research project biomechanical analysis at the IAAF world Championships Daegu 2011. Korean Society of Sport Biomechanics; Daegu, KOR.
110mH mF Henson, T. (2021) Athlete First: Major championships report. Retrieved from <http://www.athetefirst.org> (TV Analysis)
Dec (ushiro) Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 87. (in Japanese)
400mH mF, wF Behm, J.-J. (2011). Le quatrache: Démus enfin! Revue de l'AEFA, (203), p34, 36. (in French)
mH (fleischhauer) Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)
- 4-Aug **2011 Japanese National High School Championships (Kitakami, JPN)**
100m mF, wF Abe, T. (2011). 64th high school championships: JAF scientific committee - biomechanics data collection. p. 3, 36. (in Japanese).
200m mF, wF Abe, T. (2011). 64th high school championships: JAF scientific committee - biomechanics data collection. p. 7, 40. (in Japanese).
400m mF, wF Abe, T. (2011). 64th high school championships: JAF scientific committee - biomechanics data collection. p. 10, 43. (in Japanese).
400mH mF, wF Abe, T. (2011). 64th high school championships: JAF scientific committee - biomechanics data collection. p. 21, 53. (in Japanese).
- 31-Jul **2011 Windsprint (Sundsvall, SWE)**
100m mF, mB, mC, mD, mE, mF, mG, wF, wB, wC Andersson, H. (2011) Windsprint 2011 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
100mH wF Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)
110mH mF Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)
- 29-Jul **2011 French National Championships (Albi, FRA)**
100m mF (lemaitre) Vazel, P.J. (2015) Retrieved from <http://vazel.blog.lemonde.fr/2015/07/06/jimmy-vicaut-son-record-deurope-du-100m-a-la-loupe/> (in French)
- 24-Jul **2011 German National Championship (Kassel, GER)**
400mH mF (gollnow) Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)
- 16-Jul **2011 European U23 Championships (Ostrava, CZE)**
400mH mF (gollnow) Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)
- 7-Jul **2011 Asian Championships (Kobe, JPN)**
100m wH (okabe) Maho (2012). Sprint speed in 2011 women's 100m race, a change in pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 21-22. (in Japanese)
200m mF, mH Kyohei (2012). The run performance of the 2011 world and japanese top 200m sprinters. Bulletin of Studies in Athletics of JAAF, 6, p 32. (in Japanese)
110mH mF (yazawa) Hisashi, M., Takeo, M., Matsuda, K., Honda, Y., & Sugita, M. (2012) Performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 87. (in Japanese)
Dec (nakamura) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese)
400mH mF (abe), wF (kobokura) Yasuhori (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 42. (in Japanese)
- 3-Jul **2011 DLV Junioren-Gala (Mannheim, GER)**
400mH mF (konigsmark) Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)
- 28-Jun **2011 Weltklasse in Biberach (Biberach, GER)**
400mH mF (konigsmark) Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)
- 26-Jun **2011 USATF National Championships (Eugene, OR)**
200m mF Track Newsletter (2011). USATF men's championships. Track e-Newsletter 10(37). p. 316.
wF Track Newsletter (2011). USATF women's championships. Track e-Newsletter 10(38). p. 325.
400m mF Track Newsletter (2011). USATF men's championships. Track e-Newsletter 10(37). p. 317.
wF Track Newsletter (2011). USATF women's championships. Track e-Newsletter 10(38). p. 326.
- 26-Jun **2011 Fuse Sprint (Tottori, JPN)**

- 100m wR1 & wR2
(fukushima) *Maho (2012). Sprint speed in 2011 women's 100m race, a change in pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 21-22. (in Japanese)*
- 26-Jun **2011 Chinese National Grand Prix (Fuzhou, CHN)**
400mH mF (li) *Li X. (2014) Research on training characteristics of Li Zhilong's of Chinese men's 400m hurdles athletes. (Dissertation) Beijing Sport University. p.20. (in Chinese)*
- 26-Jun **2011 German National Junior Championship (Bremen, GER)**
400mH mF (konigsmark) *Beck, V. (2011). 400-meter-hürdensprinter im aufschwung. Leichtathletiktraining, 11(9+10), p49. (in German)*
- 19-Jun **2011 European Team Championships (Stockholm, SWE)**
100mH wF *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*
110mH mF *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*
- 12-Jun **2011 Peks Memorial (Hälsleholm, SWE)**
400mH mF, wF, wB *Blomkvist, B. (2011) Retrieved from www.elitlandslag.se/SprintHäck/LängSprintHäck.aspx (in Swedish)*
- 11-Jun **2011 Folksam GP (Göteborg, SWE)**
110mH mF *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*
- 10-Jun **2011 Japanese National Championships (Kumagaya, JPN)**
100m wH *Maho (2012). Sprint speed in 2011 women's 100m race, a change in pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 21-22. (in Japanese)*
200m mF, wF *Kyohei (2012). The run performance of the 2011 world and japanese top 200m sprinters. Bulletin of Studies in Athletics of JAAF, 6, p 31-32. (in Japanese)*
400m mF *Maho (2013). Race analysis of the men's 400m run in competition. Bulletin of Studies in Athletics of JAAF, 9, p 67. (in Japanese)*
110mH mF, mSF, mH *Hisashi, M., Takeo, M., Matsuda, K., Honda, Y., & Sugita, M. (2012) Performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 87. (in Japanese)*
400mH mF, wF *Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 42. (in Japanese)*
- 7-Jun **2011 Friidrott (Stockholm, SWE)**
400mH mF, wF *Blomkvist, B. (2011) Retrieved from www.elitlandslag.se/SprintHäck/LängSprintHäck.aspx (in Swedish)*
- 4-Jun **2011 Japanese National Multi-Event Championships (Kawasaki, JPN)**
100m Dec (ushiro) *Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 82. (in Japanese)*
Dec (nakamura) *Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese)*
400m Dec *Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 127. (in Japanese)*
110mH Dec (Ushiro) *Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 87. (in Japanese)*
Dec (nakamura) *Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 128. (in Japanese)*
- 3-Jun **2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
400mH mF, mB *Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 42. (in Japanese)*
- 15-May **2011 Great City Games (Manchester, GBR) (straightaway)**
150m mF, wF *Butler. M. (2010). Gay's last 100 in Manchester street 150: 8.66. Track and Field News. (www.trackandfieldnews.com)*
200m mF, wF *Butler. M. (2010). Gay's last 100 in Manchester street 150: 8.66. Track and Field News. (www.trackandfieldnews.com)*
- 8-May **2011 Seiko Super Grand Prix (Kawasaki, JPN)**
100m wF (takahashi) *Maho (2012). Sprint speed in 2011 women's 100m race, a change in pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 21-22. (in Japanese)*
- 3-May **2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
200m mF *Kyohei (2012). The run performance of the 2011 world and japanese top 200m sprinters. Bulletin of Studies in Athletics of JAAF, 6, p 31. (in Japanese)*
- 29-Apr **2011 Mikio Oda Memorial (Hiroshima, JPN)**
100m wF, wB, wH *Maho (2012). Sprint speed in 2011 women's 100m race, a change in pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 21-22. (in Japanese)*
110mH mF, mH *Kota (2013). Race analysis of leading Japanese men's 110m hurdlers - from 2011-13. Bulletin of Studies in Athletics of JAAF, 9, p 77, 79, 81, 83, & 85. (in Japanese)*
- 23-Apr **2011 Wakayama Athletics Meeting (Wakayama, JPN)**
100m Dec (ushiro) *Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 82. (in Japanese)*
400m Dec (ushiro) *Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 85. (in Japanese)*
110mH Dec (ushiro) *Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 87. (in Japanese)*
- 28-Feb **2011 Swedish National Indoor Championships (Sätra, SWE)**
60mH mF (nossmy) *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*
- 19-Feb **2011 German National Indoor Junior Championships (Leverkusen, GER) (0.99m)**
60mH mF *May, J., & Hommel, H. (2011). Zwei jugendliche hürdensprinter im vergleich. Leichtathletiktraining, 11(4), p32. (in German)*
- 5-Feb **2011 Landskamp FIN-SWE-NOR (Tampere, FIN)**
60mH mF *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*
wF *Blomkvist, B. (2011) Retrieved from www.sub13.se (in Swedish)*

- 24-Nov **2010 Asian Games (Guangzhou, CHN)**
400m Dec (ushiro) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)
- 10-Oct **2010 Commonwealth Games (Dehli, IND)**
400mH mF, mH, wF, wH Arnold, M. (2010). 400mH planning and peaking. *European Sprints & Hurdles Conference*; London, UK.
- 4-Oct **2010 National Sports Festival (Chiba, JPN)**
100mH wF (terada) Touchdown Time (2017.03.26). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
- 26-Sep **2010 Japanese Corporate Championships (Niigata, JPN)**
100m mF, mSF, mH Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese). (In Japanese).
- 19-Sep **2010 Seiko Super Grand Prix (Kawasaki, JPN)**
100m mF (lemaitre) Akirabun (2011). Speed was seen in every four strides in the 100m, a change in the pitch and stride. *Bulletin of Studies in Athletics of JAAF*, 6, p 23. (in Japanese)
- 22-Aug **2010 Swedish National Championships (Falun, SWE)**
100mH wF Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
110mH mF Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
- 8-Aug **2010 Windsprint (Sundsvall, SWE)**
100m mF, mB, mC, mD, mE, wF, wB, wC Andersson, H. (2010) Windsprint 2010 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
100mH wF Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
110mH mF Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
- 7-Aug **2010 German National Youth Championships (Ulm, GER)**
100m mF, mSF, wF, wSF Graubner, R., Bosse, T., & Heise, J. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
200m wA, wB Graubner, R., Bosse, T., & Heise, J. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 6-Aug **2010 German National Junior Championships (Ulm, GER)**
100m mF, mSF, wF, wSF Graubner, R., Bosse, T., & Heise, J. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
200m wA, wB, wH Graubner, R., Bosse, T., & Heise, J. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 1-Aug **2010 Japanese National High School Championships (Okinawa, JPN)**
100m mF, wF Matsuo, A. (2010). 63rd high school championships: JAF scientific committee - biomechanics data collection. p. 3, 34. (in Japanese).
200m mF, wF Matsuo, A. (2010). 63rd high school championships: JAF scientific committee - biomechanics data collection. p. 6, 37. (in Japanese).
400m mF, wF Matsuo, A. (2010). 63rd high school championships: JAF scientific committee - biomechanics data collection. p. 9, 40. (in Japanese).
400mH mF, wF Matsuo, A. (2010). 63rd high school championships: JAF scientific committee - biomechanics data collection. p. 19, 49. (in Japanese).
- 31-Jul **2010 European Championships (Barcelona, ESP)**
400m wH (hurtis) Le Bras, L. (2013). Analyse de la performance et conception de dispositifs d'entraînement. *Revue de l'AEFA*, (210), p 25. (in French)
100mH wF Graubner, R. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
400mH mF, mSF, mH, wF, wSF, wH Arnold, M. (2010). 400mH planning and peaking. *European Sprints & Hurdles Conference*; London, UK.
mF, wF Behm, J.-J. (2010). Les haies basses: Championnat d'Europe 2010. *Revue de l'AEFA*, (199), p45-46. (in French)
(stambolova)
wF Graubner, R. (2010) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 16-Jul **2010 Areva Meeting (Saint-Denis, FRA)**
110mH mF (oliver) Wang Y. (2013). Research upon time characters of Liu Xiang's 110m hurdles. Referring to famous star Dayron Robles in Cuba and David Oliver in America. *Social Sciences II*, p 21, 23. (in Chinese)
- 1-Jul **2010 Folksam GP (Sollentuna, SWE)**
110mH mA, mB Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
- 20-Jun **2010 European Team Championships, 1st League (Budapest, HUN)**
110mH mF Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
- 2010 USATF National Championship (Des Moines, IA)**
100m
200m
400m
100mH
110mH
400mH
- 12-Jun **2010 Japanese National Multi-Event Championships (Kawasaki, JPN)**
100m Dec (ushiro) Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. *Bulletin of Studies in Athletics of JAAF*, 8, p 82. (in Japanese)
Dec (nakamura) Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. *Bulletin of Studies in Athletics of JAAF*, 10, p 124. (in Japanese)
400m Dec Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. *Bulletin of Studies in Athletics of JAAF*, 8, p 85. (in Japanese)
- 11-Jun **2010 NCAA Championships (Eugene, OR)**
200m mF Track Newsletter (2010). NCAA men's championships. *Track e-Newsletter* 9(36). p. 261.
wF Track Newsletter (2010). NCAA women's championships. *Track e-Newsletter* 9(37). p. 270.
400m mF Track Newsletter (2010). NCAA men's championships. *Track e-Newsletter* 9(36). p. 262.
wF Track Newsletter (2010). NCAA women's championships. *Track e-Newsletter* 9(37). p. 271.
- 6-Jun **2010 Japanese National Championships (Marugame, JPN)**

	100m mF, mSF, mH	Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
	mSF1 (miyazaki), mH4 (eriguchi), wF (watanabe)	Akirabun (2011). Speed was seen in every four strides in the 100m, a change in the pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 23. (in Japanese)
	400mH mF, wF	Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 41. (in Japanese)
5-Jun	2010 Sparkassen-Gala (Regensburg, GER) 100m wA, wB, wH	Graubner, R., Bosse, T., Buckwitz, R., & Starke, A. (2010) Retrieved from http://www.fgs.uni-halle.de (in German)
4-Jun	2010 ExxonMobil Bislett Games (Oslo, NOR) 110mH mjrF	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
1-Jun	2010 NCAA National Championships (Eugene, OR) 110mH Dec (eaton)	Deca Newsletter (2010). Eaton in ncaa three-peat. DECA Newsletter, 35(34) (in French)
23-May	2010 Shanghai Diamond League (Shanghai, CHN) 110mH mF (xie)	He B., & Guo X. (2014). Kinematic analysis of Xie Wenjun's hurdle technique. Social Sciences II, p122. (in Chinese)
19-May	2010 Colorful Daegu Meeting (Daegu, KOR) 110mH mF	Hong, S.H. & Ryu, J.K. (2018) - performance of men's 110m hurdles using rhythmic units. Korean Journal of Sport Biomechanics, 28(2), p. 81.
16-May	2010 Great City Games (Manchester, GBR) (straightaway) 150m mF, wF 200m mF, wF	Jalava, M. (2010) Retrieved from www.tilastopaja.org Jalava, M. (2010) Retrieved from www.tilastopaja.org
15-May	2010 East Japan Corporate Championships (Kumagaya, JPN) 100m mF	Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
8-May	2010 Osaka Grand Prix (Osaka, JPN) 100m mF, wF (vcb) 400mH mF, wF	Akirabun (2011). Speed was seen in every four strides in the 100m, a change in the pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 23. (in Japanese) Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 41. (in Japanese)
3-May	2010 Shizuoka International Athletics Meeting (Fukuroi, JPN) 400mH mF, wF	Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 40. (in Japanese)
1-May	2010 Jamaica Invitational (Kingston, JAM) 400m mF (gay)	Vazel, P.-J. (2015). Van Niekerk and Merritt were on for the record at 300m. Retrieved from www.track-stats.com
29-Apr	2010 Mikio Oda Memorial (Hiroshima, JPN) 100m mF, mB, mH 100m wF	Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese). Akirabun (2011). Speed was seen in every four strides in the 100m, a change in the pitch and stride. Bulletin of Studies in Athletics of JAAF, 6, p 23. (in Japanese)
29-Apr	??? 100m m (saito)	Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
24-Apr	2010 Wakayama Athletics Meeting (Wakayama, JPN) 100m Dec 400m Dec	Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 82. (in Japanese) Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro. Bulletin of Studies in Athletics of JAAF, 8, p 85. (in Japanese)
13-Mar	2010 IAAF World Indoor Championships (Doha, QAT) 60mH mF, wF mSF (nossmys)	Kuitunen, S. (2010). Biomechanical analysis of the 14th IAAF world indoor championships Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
28-Feb	2010 Swedish National Indoor Championships (Sätra, SWE) 60mH mF (nossmys)	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
10-Feb	2010 GE Galan (Stockholm, SWE) 60mH mF	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
2-Feb	2010 Samsung Galan (Göteborg, SWE) 60mH mH	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
30-Jan	2010 Five Nations (Glasgow, GBR) 60mH mF, wF	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
16-Jan	2010 Scandic Indoor Games (Huddinge, SWE) 60mH wF (sääw)	Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
22-Oct	2009 Chinese National Games (Jinan, CHN) 400m wF (huang)	Wang H. (2012). Research on the analysis of the speed distribution of China's outstanding female 400-meter runners. JOURNAL NAME ???, 38. p. 24. (in Chinese)
10-Oct	2009 Gunma Relays (Maebashi, JPN) 100m Dec (nakamura) 400m Dec	Takeo (2014). Decathletes sprint ability and the relationship of the individual event performance. Bulletin of Studies in Athletics of JAAF, 10, p 124. (in Japanese) Hisashi (2010). The run performance analysis in the decathlon sprint events. Bulletin of Studies in Athletics of JAAF, 6, p 130. (in Japanese)
23-Sep	2009 Seiko Super Grand Prix (Kawasaki, JPN)	

- 100m mF (gay), wF (felix) Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 64. (in Japanese)
- 100mH wF Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 70. (in Japanese)
- 110mH mF Ryutaro (2010). An attempt or a creation of a race pattern standard model for the 110m hurdles. Bulletin of Studies in Athletics of JAAF, 6, p 86. (in Japanese)
- 12-Sep **2009 IAAF World Athletic Final (Thessaloniki, GRE)**
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 4-Sep **2009 Japanese National University Championships (Tokyo, JPN)**
100m mF (eriguchi), mSF (saito) Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
- 4-Sep **2009 Memorial Van Damme (Brussels, BEL)**
400m wF (richards) Vazel, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.
- 28-Aug **2009 Weltklasse (Zurich, SUI)**
400m wF (richards) Vazel, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 19-Aug **2009 IAAF World Championships (Berlin, GER)**
100m Dec, mF, mSF, mQF, mH, wF, wSF, wQF, wH Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints, Hurdles and Combined Events - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
mF (bolt, gay, powell) Graubner, R., & Nixdorf, E. (2011). Biomechanical analysis of the sprint and hurdles events at the 2009 IAAF world championships in athletics. New Studies in Athletics, 26(1/2), p24.
mQF (tsukahara), mH (eriguchi & kimura) Akirabun (2010). Changes in stride frequency and stride length of the world's top sprinter. Bulletin of Studies in Athletics of JAAF, 6, p 58. (in Japanese)
- 200m mF, mSF, mQF, mH, wF, wSF, wH, Hept Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints, Hurdles and Combined Events - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
- 400m mF, Dec, mSF, mH, wF, wSF, wH Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints, Hurdles and Combined Events - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
mF (quow) Maho (2013). Race analysis of the men's 400m run in competition. Bulletin of Studies in Athletics of JAAF, 9, p 67. (in Japanese)
- mF, mSF (quow), wF, wSF (krivoshapka) Graubner, R., & Nixdorf, E. (2011). Biomechanical analysis of the sprint and hurdles events at the 2009 IAAF world championships in athletics. New Studies in Athletics, 26(1/2), p37, 41.
- 100mH wF, wSF, wH, Hept Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints, Hurdles and Combined Events - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
- 110mH mF, mSF, Dec, mH Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints, Hurdles and Combined Events - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
- 400mH mF, mSF, mH, wF, wSF, wH Graubner, R., Buckwitz, R., Landmann, M., & Starke, A. (2009). Sprints and Hurdles - Men & Women. In Hommel, H. (Ed.) Biomechanical analyses at the 12th IAAF world championships in athletics, Berlin - Final Report.
- 31-Jul **2009 DN Gala (Stockholm, SWE)**
100mH wF. wH (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 30-Jul **2009 Japanese National High School Championships (Nara, JPN)**
100m mF, mSF, mH, wF Matsuo, A. (2009). 62nd high school championships: JAF scientific committee - biomechanics data collection. p. 3-4, 34. (in Japanese).
200m mF, wF Matsuo, A. (2009). 62nd high school championships: JAF scientific committee - biomechanics data collection. p. 7, 38. (in Japanese).
400m mF, wF Matsuo, A. (2009). 62nd high school championships: JAF scientific committee - biomechanics data collection. p. 10, 41. (in Japanese).
400mH mF, wF Matsuo, A. (2009). 62nd high school championships: JAF scientific committee - biomechanics data collection. p. 20, 50. (in Japanese).
- 25-Jul **2009 Windsprint (Sundsvall, SWE)**
100m mF, mB, mC, mD, wF, wB, wC, wD Andersson, H. (2009) Windsprint 2009 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
110mH mF (townsend) Andersson, H. (2009) Windsprint 2009 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 25-Jul **2009 Aviva (London, GBR)**
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 24-Jul **2009 French National Championships (Angers, FRA)**
400m wF (désert) Le Bras, L. (2013). Analyse de la performance et conception de dispositifs d'entraînement. Revue de l'AEFA, (210), p 25. (in French)
- 10-Jul **2009 Golden Gala (Rome, ITA)**

	100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
9-Jul	2009 Nambu Chuhei Memorial (Sapporo, JPN) 110mH mF	Ryutaro (2010). An attempt or a creation of a race pattern stadard model for the 110m hurdles. Bulletin of Studies in Athletics of JAAF, 6, p 86. (in Japanese)
7-Jul	2009 Athletissima (Lausanne, SUI) 100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
4-Jul	2009 German National Championships (Ulm, GER) 400mH wH	Killing, W. (2009) Der rhythmus is entscheidend (in German)
3-Jul	2009 Bislett Games (Oslo, NOR) 100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
28-Jun	2009 USATF National Championships (Eugene, OR) 400m mF (merritt)	Track Newsletter (2009). USATF men's championships. Track e-Newsletter 8(36). p. 236.
28-Jun	2009 Japanese National Championships (Hiroshima, JPN) 100m mSF, mH, wSF, wH mF, mSF, mH Dec, wH 400m Dec 100mH wF, wSF, wH 110mH mF mSF, mH Dec 400mH mF, wF	Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 64. (in Japanese) Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese). Hisashi (2010). The run performance analysis in the decathlon sprint events. Bulletin of Studies in Athletics of JAAF, 6, p 127. (in Japanese) Hisashi (2010). The run performance analysis in the decathlon sprint events. Bulletin of Studies in Athletics of JAAF, 6, p 130. (in Japanese) Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 70. (in Japanese) Ryutaro (2010). An attempt or a creation of a race pattern stadard model for the 110m hurdles. Bulletin of Studies in Athletics of JAAF, 6, p 86. (in Japanese) Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 70. (in Japanese) Hisashi (2010). The run performance analysis in the decathlon sprint events. Bulletin of Studies in Athletics of JAAF, 6, p 128. (in Japanese) Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 40. (in Japanese)
27-Jun	2009 Canadian National Championships (Toronto, CAN) 100mH wF, wH (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
14-Jun	2009 ISTAF (Berlin, GER) 100m mF, mB, mC, wF, wB, wC 400m mF, mB, wF 100mH wF 110mH mF	Graubner, R., Bosse, T., Buckwitz, R., & Starke, A. (2009) Retrieved from http://www.fgs.uni-halle.de (in German) Graubner, R., Bosse, T., Buckwitz, R., & Starke, A. (2009) Retrieved from http://www.fgs.uni-halle.de (in German) Graubner, R., Bosse, T., Buckwitz, R., & Starke, A. (2009) Retrieved from http://www.fgs.uni-halle.de (in German) Graubner, R., Bosse, T., Buckwitz, R., & Starke, A. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
11-Jun	2009 Festival of Excellence (Toronto, CAN) 100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
7-Jun	2009 Prefontaine Classic (Eugene, OR) 300m mF (merritt) 100mH wF (felicien)	Track Newsletter (2009). Prefontaine classic. Track e-Newsletter 8(31). p. 196. Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
Jun	2009 University of Barcelona Hurdle Analysis (Barcelona, ESP) 110mH (robles, quinonez)	Padulles, J.M., Lopez, J.L., & Olsson, H.J. (2010). Valoracio funcinal I analisi tecnica biomecanica den Dayron Robles. World congress on science in athletics: Barcelona, ESP.
29-May	2009 Osaka Grand Prix (Osaka, JPN) 100m mF (tsukahara)	Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
22-May	2009 Chinese National Championships (Suzhou, CHN) 400m wF (tang)	Wang H. (2012). Research on the analysis of the speed distribution of China's outstanding female 400-meter runners. JOURNAL NAME ???, 38. p. 24. (in Chinese)
17-May	2009 Great CityGames (Manchester, GBR) (150m straightaway) 150m mF, wF mB, mH, wB, wH	(2009) Retrieved from www.greatcitygames.org/Results/2009_gcgm.aspx Jalava, M. (2009) Retrieved from www.tilastopaja.org
16-May	2009 adidas Track Classic (Carson, CA) 100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
9-May	2009 Osaka Grand Prix (Osaka, JPN) 110mH mF 400mH mF, wF	Ryutaro (2010). An attempt or a creation of a race pattern stadard model for the 110m hurdles. Bulletin of Studies in Athletics of JAAF, 6, p 86. (in Japanese) Yasuho (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 39. (in Japanese)

- 3-May **2009 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
 400m mF, mSF Matsuo, A. (2010). 63rd high school championships: JAF scientific committee - biomechanics data collection. p. 9, 40. (in Japanese).
 400mH mF, mC Yasuhori (2012). Race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11. Bulletin of Studies in Athletics of JAAF, 8, p 39. (in Japanese)
- 2-May **2009 University of Illinois Invitational (Champaign, IL)**
 100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 29-Apr **2009 Mikio Oda Memorial (Hiroshima, JPN)**
 100m mH, wF, wH Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 64. (in Japanese)
 100mH wF (akai) Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 70. (in Japanese)
 110mH mF Ryutaro (2010). An attempt or a creation of a race pattern standard model for the 110m hurdles. Bulletin of Studies in Athletics of JAAF, 6, p 86. (in Japanese)
 mH Akirabun (2010). Analysis of speed and stride on straight track events in the 2009 season. Bulletin of Studies in Athletics of JAAF, 6, p 70. (in Japanese)
- 25-Apr **2009 Drake Relays (Des Moines, IA)**
 100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 18-Apr **2009 Wakayama Athletics Meeting (Wakayama, JPN)**
 400m Dec Hisashi (2010). The run performance analysis in the decathlon sprint events. Bulletin of Studies in Athletics of JAAF, 6, p 130. (in Japanese)
- 18-Apr **2009 Kansas Relays (Lawrence, KS)**
 100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 2009 USATF National Championship (Eugene, OR)**
 100m
 200m
 400m
 100mH
 110mH
 400mH
- 21-Feb **2009 University of West Indies Invitational (Kingston, JAM)**
 400m mH (bolt) Vazel, P.-J. (2009) Retrieved from <http://futuranterieur.files.wordpress.com>
- 10-Feb **2009 Meeting Pas de Calais (Lievins, FRA)**
 60m mF, mH Vazel, P.-J. (2009) Retrieved from <http://futuranterieur.files.wordpress.com/2009/02/09-lievins-m605.pdf>
- 23-Sep **2008 Seiko Super Grand Prix (Kawasaki, JPN)**
 100m mF, wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 54. (in Japanese)
 100mH wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 56. (in Japanese)
 110mH mF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 56. (in Japanese)
- 20-Sep **2008 Golden Grand Prix (Shanghai, CHN)**
 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
- 13-Sep **2008 Japanese National University Championships (Tokyo, JPN)**
 100m mSF (saito) Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
- 13-Sep **2008 IAAF World Athletic Final (Stuttgart, GER)**
 100m mF, wF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 200m mF, wF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 400m mF, wF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 100mH wF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 110mH mF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 400mH mF, wF Graubner, R., & Starke, A. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 16-Aug **2008 Olympic Games (Beijing, CHN)**
 100m mF (bolt) Locatelli, E. (2009). A closer look at 9.69. New Studies in Athletics, 24(1), p
 mF Vazel, PJ (2020.08.17) Retrieved from <https://twitter.com/pjvazel/status/1295071299350470663?s=21>
 200m mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p80, 231.
 400m wF Graubner, R., (2008) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)
 mF, wF, wSF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p86, 235.
 mF, wF (richards) Vazel, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.
 100mH wF, wSF Tsiokanos, A., Tsaopoulos, D., Giavroglou, A., & Tsarouchas, E. (2017). Race pattern of women's 100m hurdles: Time analysis of olympic hurdle performance. International Journal of Kinesiology & Sport Science, 5(3). p59.
 110mH mF Tsiokanos, A., Tsaopoulos, D., Giavroglou, A., & Tsarouchas, E. (2018) - Race pattern of men's 110m hurdles: Time analysis of olympic hurdle performance. Biology of Exercise 14(2). P21.
 400mH mF, wF Behm, J.-J. (2008). Pekin 2008: Le quatrache masculin - féminin. Revue de l'AEFA, (191), p22. (in French)
- 3-Aug **2008 Swiss National Championships (Fribourg, SUI)**

- 30-Jul 110mH mH (kundert) Weber, R. (2008) Wettkampfauswertung 110m hürden (in German)
- 2008 Japanese National High School Championships (Kumagaya, JPN)
- 100m mF, wF Abe. (2008). 61st high school championships: JAF scientific committee - biomechanics data collection. p. 4, 7. (in Japanese).
- 200m mF, wF Abe. (2008). 61st high school championships: JAF scientific committee - biomechanics data collection. p. 9, 11. (in Japanese).
- 400m mF, wF Abe. (2008). 61st high school championships: JAF scientific committee - biomechanics data collection. p. 13-14. (in Japanese).
- 400mH mF, wF Abe. (2008). 61st high school championships: JAF scientific committee - biomechanics data collection. p. 16-17. (in Japanese).
- 6-Jul 2008 USA Olympic Trials (Eugene, OR)
- 100m mF, mSF, mQF, mH, wF, wSF, wQF, wH USATF Women's Sprint Development with HPC (2008). Report from 2008 USA Olympic Trials
- 200m mF, mSF, mQF, mH, wF, wSF, wQF, wH USATF Women's Sprint Development with HPC (2008). Report from 2008 USA Olympic Trials
- 400m mF, mSF, wF, wQF USATF Women's Sprint Development with HPC (2008). Report from 2008 USA Olympic Trials
- 100mH wF USATF Men's Hurdle Development (2008). Report from 2008 USA Olympic Trials
- 110mH mF USATF Men's Hurdle Development (2008). Report from 2008 USA Olympic Trials
- 400mH mF, wF USATF Men's Hurdle Development (2008). Report from 2008 USA Olympic Trials
- 6-Jul 2008 Windsprint (Sundsvall, SWE)
- 100m mF, wF Andersson, H. (2008) Windsprint 2008 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 200m mF, mB, mC, wF, wB Andersson, H. (2008) Windsprint 2008 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 110mH mF Andersson, H. (2008) Windsprint 2008 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 6-Jul 2008 Nambu Chuhei Memorial (Hakodate, JPN)
- 100m mF, mH, wF, wH Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 53. (in Japanese)
- 100mH wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 55. (in Japanese)
- 110mH mF, mH Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 55. (in Japanese)
- 5-Jul 2008 German National Championships (Nurnberg, GER)
- 100m mF (Unger), wF Seeger (2010) - DLV B-Trainer Ausbildung - sprint (in German)
- (sailer)
- 5-Jul 2008 Japanese National Championships (Kawasaki, JPN)
- 100m mF, wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 53. (in Japanese)
- 100mH wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 55. (in Japanese)
- 110mH mF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. Bulletin of Studies in Athletics of JAAF, 5, p 55. (in Japanese)
- 400mH mF, wF Yasunori, M., Yamazaki, K., Yasushi-shi, E., Sugita, M., & Tsuruyo, O. (2009). Race pattern analysis of Japan prestigious 400m hurdler. Bulletin of Studies in Athletics of JAAF, 5, p64. (in Japanese)
- 20-Jun 2008 USATF National Junior Championships (Columbus, OH)
- 100m mF, wF USATF Women's Sprint Development with HPC (2008). Report from 2008 USATF National Junior Championships.
- 200m mF, wF USATF Women's Sprint Development with HPC (2008). Report from 2008 USATF National Junior Championships.
- 400m
- 100mH
- 110mH
- 400mH
- 14-Jun 2008 NCAA Championships (Des Moines, IA)
- 200m mF Track Newsletter (2008). NCAA men's championships. Track e-Newsletter 7(34). p. 206.
- 12-Jun 2008 Golden Spike (Ostrava, CZE)
- 110mH mF (robles) Graubner, R., (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 1-Jun 2008 ISTAF (Berlin, GER)
- 100mH wF (2) Graubner, R., (2008) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)
- 31-May 2008 Reebok (New York, NY)
- 100m mF (bolt) Saunders (2011) Retrieved from www.athleticscoaching.ca/member.aspx?p=viewblog&id=15
- 23-May 2008 Good Luck Beijing 2008 Chinese Open (Beijing, CHN)
- 110mH mF (xie) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. Sport Science Research, 37 (5), p. 4. (in Chinese)
- 18-May 2008 Kanto Championships (Tokyo, JPN)
- 100m mSF (saito) Takikawa, S., Miyashiro, K., Tsuyoshi, A., Shiraki, J., Nihijima, N., & Ogata, M. (2010) - research on the scientific data utilization model and development process of 100m performance. (In Japanese).
- 10-May 2008 Osaka Grand Prix (Osaka, JPN)

- 100m mF, mB, wF Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. *Bulletin of Studies in Athletics of JAAF*, 5, p 52. (in Japanese)
- 400mH mF (narisako), wF (kubokura) Yasunori (2009). Race pattern analysis of prestigious Japanese 400m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 5, p 64. (in Japanese)
- 9-May **2008 Super Grand Prix (Doha, QAT)**
200m mF (merritt) Vazell, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.
- 3-May **2008 Shizuoka International Athletics Meeting (Fukuroi, JPN)**
400mH m2 (narisako), wR2 Yasunori (2009). Race pattern analysis of prestigious Japanese 400m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 5, p 64. (in Japanese)
- 29-Apr **2008 Mikio Oda Memorial (Hiroshima, JPN)**
100m mF, mB, mH, wF, wB, wH Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. *Bulletin of Studies in Athletics of JAAF*, 5, p 51. (in Japanese)
100mH wF, wB Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. *Bulletin of Studies in Athletics of JAAF*, 5, p 54. (in Japanese)
110mH mF, mH Akirabun (2009). Race analysis of 2008 men's and women's 100m and 110m & 100m hurdles. *Bulletin of Studies in Athletics of JAAF*, 5, p 54. (in Japanese)
- 24-Feb **2008 Spanish National Indoor Championships (Valencia, ESP)**
60mH mF (quinonez) Frutos (2008) - 7.52 record de españa de 60mv masculino de jackson quiñonez: estudio biomecánico (in Spanish)
- 14-Feb **2008 Asian Indoor Games (Doha, QAT)**
60m mF Kuitunen, S., Palazzi, D., Poon, S., Williams, B., Glynn, J., & Gesell, J. (2008). Biomechanical analysis of the men's 60m final in asian indoor championships in athletics 2008
- 10-Feb **2008 BW-Bank (Karlsruhe, GER)**
60mH wF (kallur) Blomkvist, B. (2010) Retrieved from www.sub13.se (in Swedish)
- 30-Sep **2007 Seiko Super Grand Prix (Yokohama, JPN)**
100m mF Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. *Bulletin of Studies in Athletics of JAAF*, 4, p 49. (in Japanese)
100mH wF Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. *Bulletin of Studies in Athletics of JAAF*, 4, p 51. (in Japanese)
110mH mF Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. *Bulletin of Studies in Athletics of JAAF*, 4, p 51. (in Japanese)
- 22-Sep **2007 IAAF World Athletic Final (Stuttgart, GER)**
100m mF, wF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
200m mF, wF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
400m mF, wF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
100mH wF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
110mH mF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
400mH mF, wF Graubner, R., Bosse, T., & Starke, A. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 16-Sep **2007 ISTAF (Berlin, GER)**
400m mF (wariner), wF (richards) Graubner, R., (2008) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)
100mH wF (kallur) Graubner, R., (2008) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)
- 14-Sep **2007 Memorial Van Damme (Brussels, BEL)**
100m mF (powell) "ferrari" (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
- 9-Sep **2007 Rieti 2007 (Rieti, ITA)**
100m mH (powell) Brito (2007) - 100m stats, you may be interested (www.elitetrack.com/forums)
- 31-Aug **2007 IAAF World Championships (Osaka, JPN)**
100m mF, mSF, mQF, mH (Fasuba), wF Ae, M. (Ed.) (2008) A booklet of biomechanics data in the 11th IAAF World Championships in Athletics Osaka 2007. Japanese Association of Athletic Federations. p. 4-5, 31.
mSF, mQF, mH Akirabun (2008) - the analysis of the 100m races at the 2007 IAAF world championships in athletics
wSF (vcb) Matsuo, A., Tsuchie, H., Yanagiya, T., Hirokawa, R., Sugita, M., & Ae, M. (2009). Analysis of speed patterns in 100m sprints. *Bulletin of Studies in Athletics of JAAF*, 5, p98. (in Japanese).
wH (takahashi) Matsuo, A., Hirokawa, R., Yanagiya, T., Sugita, M., Tsuchie, H., & Ae, M. (2008). The analysis of 100m races. at the 2007 IAAF world championships in athletics. In Sawaki, K. (Ed.) Japan Biomechanics Research Project in IAAF World Championships in Athletics, Osaka. p6-7. (in Japanese).
200m mF(3), wF(3) Ae, M. (Ed.) (2008) A booklet of biomechanics data in the 11th IAAF World Championships in Athletics Osaka 2007. Japanese Association of Athletic Federations. p. 6, 32.
mF, wF Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p83, 211.
mF, mSF, mQF Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships
400m mF, wF, wSF Mochida, T., & Sugita, M. (2008). Biomechanical analysis of the 400 metres final race at the 2007 World Championships in Athletics. In Sawaki, K. (Ed.) Japan Biomechanics Research Project in IAAF World Championships in Athletics, Osaka. p54-55. (in Japanese)
(tanno) Ae, M. (Ed.) (2008) A booklet of biomechanics data in the 11th IAAF World Championships in Athletics Osaka 2007. Japanese Association of Athletic Federations. p. 42.
100mH wF Graubner, R., (2009) Retrieved from <http://www.fgs.uni-halle.de> (TV Analysis) (in German)
wF (kallur) Shibayama, K., Kawakami, S., & Tanigawa, S. (2008). Analysis of racing patterns in men's 110m and women's 100m sprint hurdles. In Sawaki, K. (Ed.) Japan Biomechanics Research Project in IAAF World Championships in Athletics, Osaka. p83. (in Japanese)
wF (crawford), wSF, wH Kawakami, S., & Miyashita, K. (2010). The improving for women's 100m hurdle of Japanese to hurdler. The analysis of race patterns based on hurdle touchdown times. *Bulletin Institutional Health and Sport Sciences*, 33, p220. (in Japanese)
wH

- 110mH mF Ae, M. (Ed.) (2008) *A booklet of biomechanics data in the 11th IAAF World Championships in Athletics Osaka 2007*. Japanese Association of Athletic Federations. p. 13.
- mSF, mH Shibayama, K., Kawakami, S., & Tanigawa, S. (2008). *Analysis of racing patterns in men's 110m and women's 100m sprint hurdles*. In Sawaki, K. (Ed.) *Japan Biomechanics Research Project in IAAF World Championships in Athletics, Osaka*. p78. (in Japanese)
- mF (shi) Xiao N. & Zhu G. (2014) *The development process of the characteristics about 110m hurdle training in China*. *Zhejiang Sport Science*, 36 (3), p. 59. (in Chinese)
- 400mH mF, wF Ae, M. (Ed.) (2008) *A booklet of biomechanics data in the 11th IAAF World Championships in Athletics Osaka 2007*. Japanese Association of Athletic Federations. p. 15, 44.
- mF, mSF, mH, wF, wH Yasunori (2008). *Race pattern analysis of the world and Japanese top 400m hurdlers*. *Bulletin of Studies in Athletics of JAAF*, 4, p100-101. (in Japanese)
- mF Behm, J.-J. (2007). *Campionnat du monde osaka 2007... Le quatrache*. *Revue de l'AEFA*, (187), p30-31. (in French)
- wSF (wilson) Shaver, D. (2008). *Hurdle training*. 18th NACACTFCA International Athletic Congress
- 7-Aug **2007 DN Galan (Stockholm, SWE)**
- 400m wF (richards) Vazel, P.-J. (2011). *Speed reserve in the 400m*. www.uka.org.uk/coaching.
- 3-Aug **2007 Japanese National High School Championships (Saga, JPN)**
- 100m mF, wF Hitorara. (2007). *60th high school championships: JAF scientific committee - biomechanics data collection*. p. 5, 11. (in Japanese).
- 200m mF, wF Hitorara. (2007). *60th high school championships: JAF scientific committee - biomechanics data collection*. p. 13, 15. (in Japanese).
- 400m mF, wF Hitorara. (2007). *60th high school championships: JAF scientific committee - biomechanics data collection*. p. 17, 20. (in Japanese).
- 25-Jul **2007 Pan American Games (Rio de Janeiro, BRA)**
- 100mH wF, wH (felicien) Winckler, G. (2009) *Sprint hurdles: Physical preparation*. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 24-Jul **2007 Windsprint (Sundsvall, SWE)**
- 100m mF, mB, mC, mD, mE, mH6, wF, wB Andersson, H. (2007) *Windsprint 2007 Splittider*. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 200m mF, mB, mC, mD, mE, mF, mG, wF, wB, wC Andersson, H. (2007) *Windsprint 2007 Splittider*. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 110mH mF Andersson, H. (2007) *Windsprint 2007 Splittider*. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
- 14-Jul **2007 Canadian National Championships (Windsor, CAN)**
- 100mH wF (felicien) Winckler, G. (2009) *Sprint hurdles: Physical preparation*. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 10-Jul **2007 Athletissima Meeting (Lausanne, SUI)**
- 110mH mF (shi) Lu C., & Liu Z. (2008) *110m hurdle technical characteristics of Shi Dongpeng*. *Shandong Sports Science & Technology*, 30 (1), p.42. (in Chinese)
- 1-Jul **2007 Japanese National Championships (Osaka, JPN)**
- 100m mF, wF Akirabun (2008). *2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*. *Bulletin of Studies in Athletics of JAAF*, 4, p 49-50. (in Japanese)
- 400mH mF, wF Yasunori (2008). *Race pattern analysis of the world and Japanese top 400m hurdlers*. *Bulletin of Studies in Athletics of JAAF*, 4, p100. (in Japanese)
- 24-Jun **2007 European Cup (Munich, GER)**
- 100m Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 200m mF, wF Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400m mF, wF Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 100mH wF Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 110mH mF Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400mH mF, wF Graubner, R., Heß, W.-D., & Ringel, K. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 23-Jun **2007 USATF National Championship (Indianapolis, IN)**
- 100m Track Newsletter (2007). *USATF men's championships*. *Track e-Newsletter* 6(40). p. 246.
- 200m mF Track Newsletter (2007). *USATF women's championships*. *Track e-Newsletter* 6(41). p. 253.
- wF Track Newsletter (2007). *USATF men's championships*. *Track e-Newsletter* 6(40). p. 246.
- 400m mF Track Newsletter (2007). *USATF women's championships*. *Track e-Newsletter* 6(41). p. 253.
- wF (richards) Vazel, P.-J. (2011). *Speed reserve in the 400m*. www.uka.org.uk/coaching.
- 100mH wF USATF Men's Hurdle Development (2007). *Report from 2006 USATF National Championships*.
- 110mH mF, mSF, mH, mjrF USATF Men's Hurdle Development (2007). *Report from 2006 USATF National Championships*.
- 400mH mH USATF Men's Hurdle Development (2007). *Report from 2006 USATF National Championships*.
- 9-Jun **2007 NCAA Championships (Sacramento, CA)**
- 200m mF Track Newsletter (2007). *NCAA men's championships*. *Track e-Newsletter* 6(36). p. 218.
- wF Track Newsletter (2007). *NCAA women's championships*. *Track e-Newsletter* 6(37). p. 226.
- 400m mF Track Newsletter (2007). *NCAA men's championships*. *Track e-Newsletter* 6(36). p. 218.
- wF Track Newsletter (2007). *NCAA women's championships*. *Track e-Newsletter* 6(37). p. 226.
- 9-Jun **2007 World Championship Trials (Suzhou, CHN)**
- 400m mF (liu) He Y. (2014). - *The game characteristics and training monitoring of national excellent 400m male athletes*. *Journal of Gannan Normal University*, 3. p. 82. (in Chinese)
- 19-May **2007 National Grand Prix (Zhaoqing, CHN)**

	110mH mF (shi)	Zhao R. (2009.) - kinematic research on the 110m hurdle technique of Shi Dongpeng. <i>Social Sciences II</i> , p22. (in Chinese)
5-May	2007 Osaka Grand Prix (Osaka, JPN)	
	100m mF, wF	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 49. (in Japanese)
	100mH wF	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 51. (in Japanese)
	110mH mF	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 51. (in Japanese)
	400mH mF	Yasunori (2008). Race pattern analysis of the world and Japanese top 400m hurdlers. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p100. (in Japanese)
29-Apr	2007 Mikio Oda Memorial (Hiroshima, JPN)	
	100m mF	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 49. (in Japanese)
	100mH wF	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 51. (in Japanese)
	110mH mF, mH	Akirabun (2008). 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles. <i>Bulletin of Studies in Athletics of JAAF</i> , 4, p 51. (in Japanese)
24-Sep	2006 Seiko Super Grand Prix (Yokohama, JPN)	
	100m wF (simpson)	Akirabun (2007). Speed analysis of the 100m and hurdles with a laser system. <i>Bulletin of Studies in Athletics of JAAF</i> , 3, p 62. (in Japanese)
	400m mF, wF	Hisashi (2007). Super Grand Prix 2006 - sprinting speed changes in the 400m. <i>Bulletin of Studies in Athletics of JAAF</i> , 3, p 65, 67. (in Japanese)
	400mH mF, wF	Yasunori (2007). Race pattern analysis of top Japanese 400m hurdlers. <i>Bulletin of Studies in Athletics of JAAF</i> , 3, p 96-97. (in Japanese)
17-Sep	2006 IAAF World Cup (Athens, GRE)	
	100m	
	200m wF (richards)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	400m wF (richards)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	100mH	
	110mH mF (johnson)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	400mH	
10-Sep	2006 IAAF World Athletic Final (Stuttgart, GER)	
	100m	
	200m mf (gay, spearman)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	400m mF (3)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	100mH wF (perry)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	110mH mF (liu)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	400mH mF (iakovakis)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
16-Aug	2006 IAAF World Junior Championships (Beijing, CHN)	
	400mH wSF, wH (boden)	Beckenham, M., & Rosemond, D. (2006). Establishing an ideal stride pattern for a potential elite female 400m hurdler. <i>Modern Athlete & Coach</i> , 44(4), p9.
11-Aug	2006 European Championships (Göteborg, SWE)	
	400m mF, wF	Behm, J.-J. (2006). Championnats d'europe göteborg 2006... Le 400m avec ou sans obstacles. <i>Revue de l'AEFA</i> , (183), p34. (in French)
	wSF (stabolova)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	100mH wF (kallur)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	110mH mF (olijars)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	mH (bitzi)	Weber (2006) - wettkampfauswertung 110m hürden (in German)
	400mH mF, wF	Behm, J.-J. (2006). Göteborg 2006: Le quatrache (in French)
18-Aug	2006 Weltklasse (Zurich, SUI)	
	100m mF (powell, gay)	Saunders (2011) - www.athleticscoaching.ca/member.aspx?p=viewblog&id=15
5-Aug	2006 Canadian National Championships (Ottawa, CAN)	
	100mH wF (felicien)	Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
30-Jul	2006 DLV Gala (Nurnberg, GER)	
	100mH wF (2)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
22-Jul	2006 German National Junior Championships (Ulm, GER)	
	110mH mF (dittmer)	Killing, W., & Hommel, H. (2006). Werrmann und Dittmer im vergleich. <i>Leichtathletiktraining</i> , 17(11), p17. (in German)
21-Jul	2006 Estonian National Championship (Tallinn, EST)	
	100m mF	Misjuk, M., & Viru, J. (2011). Running velocity dynamics in 100m sprint: Comparative analysis of the world top and estonian top male sprinters. <i>Acta Kinesiologia Universitatis Tartuenssis</i> , 17, p133.
15-Jul	2006 German National Championships (Ulm, GER)	
	110mH mF, mH	Killing, W., & Hommel, H. (2006). Werrmann und Dittmer im vergleich. <i>Leichtathletiktraining</i> , 17(11), p17. (in German)
11-Jul	2006 Athletissima (Lausanne, SUI)	
	110mH R2 (liu)	Xiao N. & Zhu G. (2014) The development process of the characterisitcs about 110m hurdle training in China. <i>Zhejinag Sport Science</i> , 36 (3), p. 59. (in Chinese)
	R2 (arnold, trammell)	Li D. (2013). Technical characteristics of Merritt, the 110m hurdle champion at London Olympics. <i>Social Sciences II</i> , p39. (in Chinese)
1-Jul	2006 Japanese National Championships (Kobe, JPN)	

- 100mH wF (ishino) Akirabun (2007). Speed analysis of the 100m and hurdles with a laser system. Bulletin of Studies in Athletics of JAAF, 3, p 62. (in Japanese)
- 400mH mF Yasunori (2007). Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF, 3, p 95. (in Japanese)
- 24-Jun **2006 USATF National Championship (Indianapolis, IN)**
 100m mF, mSF, mjrF, wF, wjrF USATF Women's Sprint Development (2006). Report from 2006 USATF National Championships.
 200m mF, wF, wjrF USATF Women's Sprint Development (2006). Report from 2006 USATF National Championships.
 400m mF Track Newsletter (2006). USATF men's championships. Track e-Newsletter 5(35). p. 246.
 wF, wjrF USATF Women's Sprint Development (2006). Report from 2006 USATF National Championships.
 100mH wF USATF Men's Hurdle Development (2006). Report from 2006 USATF National Championships.
 110mH mF USATF Men's Hurdle Development (2006). Report from 2006 USATF National Championships.
 400mH mF USATF Men's Hurdle Development (2006). Report from 2006 USATF National Championships.
- 11-Jun **2006 Norwich Union (Gateshead, GBR)**
 100m mF (powell) Brito (2007) - 100m stats, you may be interested (www.elitetrack.com/forums)
- 10-Jun **2006 NCAA Championships (Sacramento, CA)**
 200m mF Track Newsletter (2006). NCAA men's championships. Track e-Newsletter 5(31). p. 219.
 wF Track Newsletter (2006). NCAA women's championships. Track e-Newsletter 5(32). p. 227.
 400m mF Track Newsletter (2006). NCAA men's championships. Track e-Newsletter 5(31). p. 219.
 wF Track Newsletter (2006). NCAA women's championships. Track e-Newsletter 5(32). p. 227.
- 22-May **2006 Asian Grand Prix (Bengaluru, IND)**
 400mH mF (meng) Meng Y. (2009). A comparative study of the rhythm change between Chinese and foreign outstanding men's 400-meter hurdles athletes. Social Sciences II, p8. (in Chinese)
- 12-May **2006 Doha Super Grand Prix (Doha, QAT)**
 100m mF (gatin) Kuitunen, S. (2006). Justin Gatlin wr 9.77 - race analysis - short report.
 mF (fasuba) Brito (2007) - 100m stats, you may be interested (www.elitetrack.com/forums)
- 6-May **2006 Modesto Relays (Modesto, CA)**
 400m mF (warner) Track Newsletter (2006). Modesto relays. Track e-Newsletter 5(24). p. 157.
- 6-May **2006 Osaka Grand Prix (Osaka, JPN)**
 100m mF, wF Akirabun (2007). Speed analysis of the 100m and hurdles with a laser system. Bulletin of Studies in Athletics of JAAF, 3, p 60, 62. (in Japanese)
 110mH mF Akirabun (2007). Speed analysis of the 100m and hurdles with a laser system. Bulletin of Studies in Athletics of JAAF, 3, p 61. (in Japanese)
 400mH mF Yasunori (2007). Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF, 3, p 94. (in Japanese)
- 29-Apr **2006 Mikio Oda Memorial (Hiroshima, JPN)**
 100m wH (kitakaze) Akirabun (2007). Speed analysis of the 100m and hurdles with a laser system. Bulletin of Studies in Athletics of JAAF, 3, p 62. (in Japanese)
 100mH wF, wH Yasunori (2007). Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF, 3, p 62. (in Japanese)
- 22-Mar **2006 Commonwealth Games (Melbourne, AUS)**
 400mH wH (boden) Beckenham, M., & Rosemond, D. (2006). Establishing an ideal stride pattern for a potential elite female 400m hurdler. Modern Athlete & Coach, 44(4), p9.
- 26-Jan **2006 Telstra A Series (Canberra, AUS)**
 400mH wF (boden) Beckenham, M., & Rosemond, D. (2006). Establishing an ideal stride pattern for a potential elite female 400m hurdler. Modern Athlete & Coach, 44(4), p9.
- 12-Oct **2005 Chinese National Games (Nanjing, CHN)**
 110mH mF Wang Z., & Zhang S. (2013) An analysis on the technical characteristics of Liu Xiang's and Shi Dongpeng's 110m hurdles. Journal of Hexi University, 29 (2), p. 89. (in Chinese)
 400mH wF Wang J., Ruan Z., & Yu R. (2016). Hurdle rhythm characteristic analysis and athletic training considerations for domestic and foreign outstanding female 400m hurdle athletes. Bulletin of Sport Science & Technology, (10), p70. (in Chinese)
- 19-Sep **2005 Seiko Super Grand Prix (Yokohama, JPN)**
 400m mF, wF Masaaki, (2006). Time analysis in the 400m at the Seiko Super Grand Prix. Bulletin of Studies in Athletics of JAAF, 2, p 92, 94. (in Japanese)
 400mH mF Yasunori, M., (2006). Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF, 2, p 103. (in Japanese)
- 15-Aug **2005 Weltklasse (Zurich, SUI)**
 400m wF ferrari (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
- 13-Aug **2005 IAAF World Championships (Helsinki, FIN)**
 100m
 200m mF Track Newsletter (2005). World championships- women. Track e-Newsletter 4(34). p. 268.
 wSF (arron) Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p211.
 400m mF (wariner) ferrari (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
 mF Track Newsletter (2005). World championships- men. Track e-Newsletter 4(33). p. 249.
 wF, wSF (williams) Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p216.
 wF (richards) Vazel, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.
 100mH
 110mH mF (doucoure) Longuevre, R. (2005). Helsinki 2005 - Les haies: Cinq qualifiées et un titre mondial. Revue de l'AEFA, (179), p16. (in French)
 400mH mF, mSF Yasunori, M., (2006). Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF, 2, p 102. (in Japanese)

	wF	Behm, J.-J. (2005). <i>Helsinki 2005; Les haies - La revanche des lutins. Revue de l'AEFA</i> , (179), p19. (in French)
16-Aug	2005 European U23 Championships (Erfurt, GER)	
	100m mF (weiser), mH (wieser)	Graubner, R. (2005). <i>Wettkampfanalytische untersuchung der sprintleistungsfähigkeit bei nachwuchssprinterinnen und -sprintern bei den U23-Europameisterschaften 2005 in Erfurt nachwuchssprinterin und sprintern</i> . p220. (in German)
	wF (karastamati)	Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
14-Jul	2005 IAAF World Youth Championships (Marrakech, MAR)	
	400mH wSF (boden)	Beckenham, M., & Rosemond, D. (2006). <i>Establishing an ideal stride pattern for a potential elite female 400m hurdler. Modern Athlete & Coach</i> , 44(4), p9.
3-Jul	2005 German National Championships (Wattenscheid, GER)	
	200m mF (unger)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
25-Jun	2005 USATF National Championship (Carson, CA)	
	100m mF, mjrF, wF, wSF, wH, wjrF	USATF Women's Sprint Development (2005). <i>Report from 2005 USATF National Championships</i> .
	200m mF, wF, wjrF	USATF Women's Sprint Development (2005). <i>Report from 2005 USATF National Championships</i> .
	400m mF, mjrF, wF, wjrF	USATF Women's Sprint Development (2005). <i>Report from 2005 USATF National Championships</i> .
	100mH wjrF	USATF Women's Sprint Development (2005). <i>Report from 2005 USATF National Championships</i> .
	110mH mF	USATF Women's Sprint Development (2005). <i>Report from 2005 USATF National Championships</i> .
12-Jun	2005 DKB-DLV (Ulm, GER)	
	400m mF (benjamin)	Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
14-Jun	2005 Tsiklitiria Super Grand Prix (Athens, GRE)	
	100m mF (powell)	Saunders (2011) - www.athleticscoaching.ca/member.aspx?p=viewblog&id=15
11-Jun	2005 NCAA Championships (Sacramento, CA)	
	200m mF	Track Newsletter (2005). <i>NCAA men's championships. Track e-Newsletter 4(24)</i> . p. 181.
	wF	Track Newsletter (2005). <i>NCAA women's championships. Track e-Newsletter 4(25)</i> . p. 188.
	400m mF	Track Newsletter (2005). <i>NCAA men's championships. Track e-Newsletter 4(24)</i> . p. 181.
	wF	Track Newsletter (2005). <i>NCAA women's championships. Track e-Newsletter 4(25)</i> . p. 188.
	400mH mF (clement)	gh (2005) - trackandfieldnews.com forum
	mF (brazell)	Shaver, D. (2008). <i>Hurdle training. 18th NACACTFCA International Athletic Congress</i>
11-Jun	2005 Reebok (New York, NY)	
	400m wF	Track Newsletter (2005). <i>US invitationals- reebok women. Track e-Newsletter 4(25)</i> . p. 194.
4-Jun	2005 Japanese National Championships (Tokyo, JPN)	
	400mH mF	Yasunori, M., (2006). <i>Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF</i> , 2, p 102. (in Japanese)
7-May	2005 Modesto Relays (Modesto, CA)	
	400m mF (warner)	Track Newsletter (2005). <i>Modesto relays. Track e-Newsletter 4(19)</i> . p. 136.
7-May	2005 Jamaica Invitational (Kingston, JAM)	
	100m mF (powell)	"ferrari" (2009) - <i>Split 100 metri uomini e donne</i> (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
	400m wF (richards)	ferrari (2009) - <i>Split 100 metri uomini e donne</i> (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
7-May	2005 Osaka Grand Prix (Osaka, JPN)	
	400mH mF, wF	Yasunori, M., (2006). <i>Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF</i> , 2, p 101. (in Japanese)
6-Mar	2005 Australian National Championships (Sydney, AUS)	
	400mH wF (boden)	Beckenham, M., & Rosemond, D. (2006). <i>Establishing an ideal stride pattern for a potential elite female 400m hurdler. Modern Athlete & Coach</i> , 44(4), p9.
24-Apr	2005 National Grand Prix (Zhongshan, CHN)	
	110mH mF (liu)	Xu Y., Mi W., & Zhang M. (2005) <i>Analysis on Liu Xiang's rhythm between the hurdles in 110m hurdle race. Sport Science Research</i> . p. 49. (in Chinese)
24-Sep	2004 ??? (Busan, KOR)	
	100mH wF (lee)	Lee (2007) - <i>the kinematic analysis of horizontal velocity and records from start to finish on elite women 100m hurdler</i>
23-Sep	2004 Seiko Super Grand Prix (Yokohama, JPN)	
	400mH mF, wF	Yasunori, M., (2005). <i>Race pattern analysis of top Japanese 400m hurdlers. Bulletin of Studies in Athletics of JAAF</i> , 1, p 113-114. (in Japanese)
22-Aug	2004 Olympic Games (Athens, GRE)	
	100m mF	Brito (2007) - <i>100m stats, you may be interested</i> (www.elitetrack.com/forums)
	200m mF, wF	Butler, M. (2016). <i>IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department</i> , p79, 231.
	400m mF, wF	Butler, M. (2016). <i>IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department</i> , p86, 235.
	100mH wF	Tsiokanos, A., Tsaopoulos, D., Giavroglou, A., & Tsarouchas, E. (2017). <i>Race pattern of women's 100m hurdles: Time analysis of olympic hurdle performance. International Journal of Kinesiology & Sport Science</i> , 5(3). p59.
	wSF (okori)	Liagonne (2007) - <i>Historique: Le 110m haies en chiffres</i> (in French)
	wSF (felicien)	Winckler, G. (2009) <i>Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK</i>
	110mH mF	Ruiz (2004) - <i>las carreras con vallas de juegos olimpicos de atenas '04</i> (in Spanish)
	mSF, mH (doucoure)	Liagonne (2007) - <i>Historique: Le 110m haies en chiffres</i> (in French)
	mH (tanigawa)	Touchdown_Time (2016.05.12). Retrieved from https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en (in Japanese)
	400mH mF, wF	Ruiz (2004) - <i>las carreras con vallas de juegos olimpicos de atenas '04</i> (in Spanish)

- mF, wF Behm, J.-J. (2005). Athènes 2004: Les Haies Basses. *Revue de l'AEFA*, p16, 18. (in French)
- 8-Aug **2004 Leichtathletik Team Challenge (Munich, GER)**
400m mF (wariner) Graubner, R. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 6-Aug **2004 Weltklasse (Zurich, SUI)**
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 1-Aug **2004 Chinese National Grand Prix (Tianjin, CHN)**
110mH mF (liu) Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. *Sport Science Research*, 37 (5), p. 3. (in Chinese)
- 10-Jul **2004 Canadian National Championships (Victoria, CAN)**
100mH wF, wH (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 11-Jul **2004 USA Olympic Trials (Sacramento, CA)**
100m mF, wF, wSF, wQF USATF Women's Sprint Development (2004). Report from 2004 USA Olympic Trials.
200m mF, mSF, wF, wSF, USATF Women's Sprint Development (2004). Report from 2004 USA Olympic Trials.
wH
400m mF, wF, wSF, wH USATF Women's Sprint Development (2004). Report from 2004 USA Olympic Trials.
100mH
110mH
400mH wF Lyle, B. (2004) Miscellaneous coaching notes
- 19-Jun **2004 Prefontaine Classic (Eugene, OR)**
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 12-Jun **2004 Atletica (Genève, SUI)**
110mH mF (monachon) Weber (2004) - wettkampfauswertung 110m hürden (in German)
- 12-Jun **2004 NCAA Championships (Sacramento, CA)**
400m mF Track Newsletter (2004). NCAA Championships. *Track e-Newsletter* 3(22). p. 185, 177.
- 5-Jun **2004 Japanese National Championships (Tottori, JPN)**
400mH mF Yasunori, M., (2005). Race pattern analysis of top Japanese 400m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 1, p 113. (in Japanese)
- 15-Apr **2004 Mt. SAC Relays (Walnut, CA)**
110mH Dec (smith) Henson (2004). Coaching observations. USATF OTC sport science.
- 8-May **2004 Modesto Relays (Modesto, CA)**
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
400mH wF (addy) Henson (2004). Coaching observations. USATF OTC sport science.
- 8-May **2004 Osaka Grand Prix (Osaka, JPN)**
110mH mF (liu) Zhang S. (2005) Technical characteristics analysis of 110m hurdles race of Liu Xiang. (Dissertation). p. 8. (in Chinese)
400mH mF Yasunori, M., (2005). Race pattern analysis of top Japanese 400m hurdlers. *Bulletin of Studies in Athletics of JAAF*, 1, p 112. (in Japanese)
- 10-Apr **2004 UCLA (Los Angeles, CA)**
400mH wF (addy) Henson (2004). Coaching observations. USATF OTC sport science.
- 20-Mar **2004 SDSU (San Diego, CA)**
400mH wF (taylor) Henson (2004). Coaching observations. USATF OTC sport science.
- 13-Jun **2004 DLV-Gala (Erfurt, GER)**
400m mF (canal) Graubner, R. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 14-Sep **2003 Chinese National Championships (Shanghai, CHN)**
400mH mF (shao) Zhou P. (2003) Training of Shao Yi, national champion of men's 400m hurdles. *Shanghai Sport Science Research* 24 (6), p. 55. (in Chinese)
- 26-Aug **2003 IAAF World Championships (Paris, FRA)**
100m
200m mSF, mQF, mH Di Mulo, F. (2009). Mezzi e metodi di allenamento dello sprinter di elevato livello. *Atleticastudi*, p143. (in Italian)
(cavallaro)
400m mF, wF Bonvin, P. (2003). Paris 2003: Compte-rendu 400m et relais 4x 400m. *Revue de l'AEFA*, p23. (in French)
wF (guevara) Smith, M. (2005). High performance sprinting. Wiltshire, UK; Crowood Press. p67-68.
100mH wF (felicien) Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
110mH mF (johnson) Leynier, P. (2003). Paris 2003: Haies - Le 100m haies, Le 110m haies. *Revue de l'AEFA*, p41, 43. (in French)
mF (trammell, liu) Xu Y., & Mi W. (2004). An analysis on the hurdling techniques of the excellence chinese male 110m hurdle athletes. 2004 Pre-Olympic Congress: Thessaloniki, GRE.
mF (shi) Yao G., Zhou Y., Ma X., Zhang H. (2012). Research on rhythm training methods between men's straight hurdles. p. 2. (in Chinese)
400mH mF, mSF, mH, wF Behm, J.-J. (2003). Paris 2003: Le quatrache masculin - féminin. *Revue de l'AEFA*, p45-46. (in French)
- 8-Aug **2003 Russian National Championships (Tula, RUS)**
400mH wF (pechonkina) Vazel, P.J. (2019). Statistical analysis and historical context of the new 400H world record. <https://altis.world/articles/statistical-analysis-and-historical-context-of-the-new-400h-world-record/>
- 22-Jun **2003 USATF National Championship (Palo Alto, CA)**
100m mF, mjrF, wF, wjrF USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
200m mF, mjrF, wF, wjrF USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
400m mF, mSF, mjrF, wF, USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
wSF, wjrF

	100mH wF, wjrF	USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
	110mH mF, mjrF	USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
	400mH mF, mjrF, wF, wjrF	USATF Women's Sprint Development (2003). Report from 2003 USATF National Championships.
1-Jul	2003 Athletissima Meeting (Lausanne, SUJ)	
	110mH mF	Xu Y., Mi W., & Zhang M. (2004) An analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games. <i>Sport Science Research</i> , 25 (6), p.27.
	mF (olijar)	Zhang S. (2005). Technical characteristics analysis of 110m hurdles race of Liu Xiang. <i>Social Sciences II</i> , p6. (in Chinese)
14-Jun	2003 NCAA Championships (Sacramento, CA)	
	400m mF, wF	Track Newsletter (2003). NCAA Championships. Track e-Newsletter 2(23). p. 172, 177.
13-Jun	2003 ??? (Shanghai, CHN)	
	400mH mH (shao)	Zhou P. (2003) Training of Shao Yi, national champion of men's 400m hurdles. <i>Shanghai Sport Science Research</i> 24 (6), p. 55. (in Chinese)
24-Jan	2003 Prefontaine Classic (Eugene, OR)	
	400m wF (guevara)	Track Newsletter (2003). Prefontaine classic. Track e-Newsletter 2(20). p. 149.
5-Apr	2003 Chinese National Grand Prix (Nanning, CHN)	
	110mH mR1 (liu)	Wang L., Yin J., Xu Y., Gong M., & Li R. (2016) Comparative analysis of the grey relational grade of the segment time and final results of the 110m hurdle race of Xie Wenjun and Liu Xiang. <i>Sport Science Research</i> , 37 (5), p. 3. (in Chinese)
27-Oct	2002 Chinese National Grand Prix Final (Tiantai, CHN)	
	400mH mF (shao)	Zhou P. (2003) Training of Shao Yi, national champion of men's 400m hurdles. <i>Shanghai Sport Science Research</i> 24 (6), p. 55. (in Chinese)
21-Sep	2002 IAAF World Cup (Madrid, ESP)	
	100mH wF	Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas (in Spanish)
	110mH mF	Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas (in Spanish)
	400mH mF, wF	Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas (in Spanish)
14-Sep	2002 IAAF Grand Prix Final (Paris, FRA)	
	100m mF (montgomery)	Lee, J. (2008). Usain Bolt 100m 10 meter Splits and Speed Endurance. speedendurance.com/2008/08/22/usain-bolt-100m-10-meter-splits-and-speed-endurance/
	mF	Brito (2007) - 100m stats, you may be interested (www.elitetrack.com/forums)
7-Aug	2002 European Championships (Munich, GER)	
	100m mF, mSF, mQF, mH, wF, wSF, wH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	200m mF, mSF, mQF, mH, wF, wSF, wH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	400m mF, mSF, mH, wF, wH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	100mH wF, wSF, wH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	110mH mF, mSF, mH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	400mH mF, mSF, mH, wF, wH	Graubner, R., Heß, W.-D., & Ringel, K. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
6-Jul	2002 German National Championships (Bochum-Wattenscheid, GER)	
	400m mF (schultz)	Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
19-Jul	2002 Herculis (Monaco, MON)	
	400m wF (fenton)	Veney - split times from PJ
	2002 USATF National Championship (Palo Alto, CA)	
	100m	
	200m	
	400m	
	100mH	
	110mH	
	400mH	
1-Jun	2002 NCAA Championships (Baton Rouge, LA)	
	400m mF, wF	Track Newsletter (2002). NCAA Championships. Track e-Newsletter 1(20). p. 136, 141.
21-Apr	2002 Prefontaine Classic (Eugene, OR)	
	400m wF (richards)	Track Newsletter (2002). Prefontaine classic. Track e-Newsletter 1(19). p. 132.
19-May	2002 Chinese National Grand Prix (Shanghai, CHN)	
	110mH mF (liu)	Huang Y., Yu Y., Guo J., & Han A. (2002). Technical research on the men's 110m hurdles at the 9th national games. 10th National Congress of Sports Biomechanics, Shijiazhuang, Hebei, China. p461. (in Chinese)
21-Apr	2002 Mt. SAC Relays (Walnut, CA)	
	400m wF (jones)	Track Newsletter (2002). Mt. SAC relays, invitational women. Track e-Newsletter 1(14). p. 88.
16-Feb	2002 German National Indoor Championships (Sindelfingen, GER)	
	100mH wF	Hücklekemkes, J. (2002). Explosive starten vielfältig erlernen. <i>Leichtathletiktraining</i> , 13(4), p5. (in German)
18-Nov	2001 Chinese National Games (Beijing, CHN)	
	100mH wF (su)	Xu (2007) Comparative study on technical parameters of china & world female 100m hurdlers. (in Chinese)
	wF (zeng)	Huang Y., Guo J., Yu Y., & Han J. (2003) Research on the technique of excellent female 100m hurdles athletes. <i>Journal of Xi'an Institute of Physical Education</i> , 20 (5). p. 5. (in Chinese)
	400m wH2 (xiao)	Wang H. (2012). Research on the analysis of the speed distribution of China's outstanding female 400-meter runners. <i>JOURNAL NAME ???</i> , 38. p. 24. (in Chinese)
	110mH mF (chen)	Huang Y., Yu Y., Guo J., & Han A. (2002). Technical research on the men's 110m hurdles at the 9th national games. 10th National Congress of Sports Biomechanics, Shijiazhuang, Hebei, China. p461. (in Chinese)

- 400mH mF Gong M., Huang Y., & Guo J. (2003) Discussion on technique of gold and silver medallists of men's 400m hurdles of the 9th National Games. *Journal of Shanghai Physical Education Institute*, 27 (1), p43. (in Chinese)
- wF (song, huang) Lu W., Guo J., Xu J., & Yu Y. (2002). Technical analysis of women's 400m hurdles champion and runner-up at the 9th national games. 10th National Congress of Sports Biomechanics, Shijiazhuang, Hebei, China. p272. (in Chinese)
- 6-Sep **2001 Goodwill Games (Brisbane, AUS)**
200m mF, wF Track Newsletter (2001). Goodwill Games. Track Newsletter 47(15). p. 212-13.
- 31-Aug **2001 ISTAF (Berlin, GER)**
100m mF, wF Graubner, R., Heß, W.-D., Bosse, T., & Schulz, H. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400m wF (3) Graubner, R., Heß, W.-D., Bosse, T., & Schulz, H. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 110mH mF Graubner, R., Heß, W.-D., Bosse, T., & Schulz, H. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400mH wF Graubner, R., Heß, W.-D., Bosse, T., & Schulz, H. (2009) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 24-Aug **2001 Memorial Van Damme (Brussels, BEL)**
200m mF Track Newsletter (2001). Post-edmonton circuit- brussels golden league. Track Newsletter 47(14). p. 202.
- 8-Aug **2001 IAAF World Championships (Edmonton, CAN)**
100m mF (2), wF(2) Veney - split times from PJ
200m mF, wF Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p82, 210.
- 400m
100mH wF, wSF Winckler, G. (2009) Sprint hurdles: Physical preparation. UK Athletics National Coaching Conference: Physical Preparation, Birmingham, UK
- 110mH
400mH mF, wF Behm, J.-J. (2001) Edmonton: Le quatrache: les finales. *Revue de l'AEFA*, p. 29-30. (in French)
mF (tamesue) Kota, T., Fukuda, A., Kazuhito, K., Kohei, Y., Yamamoto, M., & Ando, K. (2016). 69th high school championships: JAF scientific committee - biomechanics data collection. p. 21. (in Japanese)
wSF (glover) Behm, J.-J. (2001). Profil des finales d'Edmonton. In Leynier, P. (Ed). *Athl'haies*, (16), p8. (in French)
- 20-Jul **2001 European Junior Championships (Grosseto, ITA)**
400mH wH (dercke) Leynier, P. (2001). Championnats d'Europe Juniors. In Leynier, P. (Ed). *Athl'haies*, (15), p11. (in French)
- 30-Jun **2001 German National Championships (Stuttgart, GER)**
100m wF (rockmeier) Graubner, R. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 23-Jun **2001 European Cup (Bremen, GER)**
100m mF, mB, mC, wF, wB, wC Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 200m mF, wF Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400m mF, wF Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 100mH wF Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 110mH mF Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 400mH mF, wF Graubner, R., Heß, W.-D., Bosse, T., Klockmann, M., & Ringel, K. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 2001 USATF National Championship (Eugene, OR)**
100m
200m
400m
100mH
110mH
400mH
- 10-Jul **2000 ??? (Torino, ITA)**
200m mF (cavallaro) Di Mulo, F. (2009). Mezzi e metodi di allenamento dello sprinter di elevato livello. *Atleticastudi*, p143. (in Italian)
- 2-Jun **2001 NCAA Championships (Eugene, OR)**
200m wF Track Newsletter (2001). NCAA Championships. Track Newsletter 47(11). p. 125.
400m mF, wF Track Newsletter (2001). NCAA Championships. Track Newsletter 47(11). p. 121, 125.
- 6-May **2001 Chinese National Grand Prix (Shanghai, CHN)**
110mH mF Fang S. (2001) Analysis on technical characteristics in Liu Xiang's 110m hurdles. *Chinese Athletic Association*, 9. p. 15 (in Chinese)
- 28-Apr **2001 Chinese National Grand Prix (Ningbo, CHN)**
110mH mF Fang S. (2001) Analysis on technical characteristics in Liu Xiang's 110m hurdles. *Chinese Athletic Association*, 9. p. 15 (in Chinese)
- 23-Sep **2000 Olympic Games (Sydney, AUS)**
100m mF (greene) Brito (2007) - 100m stats, you may be interested (www.elitetrack.com/forums)
wF Veney - sydney 100m women's times
200m wF (jones, freeman) Veney - 200m women from PJ
400m mF, wF Behm, J.-J. (2000). Sydney 2000: Compte-rendu du 400m haies. *Revue de l'AEFA*, p20. (in French)
mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p86, 234.
- 100mH

	110mH		
	400mH mF, mSF, mH		Ditroilo, M., & Marini, M. (2001). Analysis of the race distribution for male 400m hurdlers competing at the 2000 Sydney Olympic Games. <i>New Studies in Athletics</i> , 16(3), p17-23.
	wF		Behm, J.-J. (2000). Sydney 2000: Compte-rendu du 400m haies. <i>Revue de l'AEFA</i> , p21. (in French)
1-Sep	2000 ISTAF (Berlin, GER)		
	100m mF, wF, wB		Graubner, R. & Heß, W.-D. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	400m mF (4)		Graubner, R. & Heß, W.-D. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	100mH wF		Graubner, R. & Heß, W.-D. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	110mH mF		Graubner, R. & Heß, W.-D. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
	400mH mF		Graubner, R. & Heß, W.-D. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
23-Jun	2000 USATF Olympic Trials (Sacramento, CA)		
	100m wF		Lyle, B. (2000) Miscellaneous coaching notes
	200m mF, mSF, wF		Track Newsletter (2000). US olympic trials. <i>Track Newsletter</i> 46(9). p. 171, 176.
	mSF2 (williams)		Hymans, R. (2020). History of the US olympic trials - track and field. Los Altos, CA: Track and Field News. p2. Retrieved from: https://trackandfieldnews.com/wp-content/uploads/2019/10/2000.pdf
	400m mF, wF		Hymans, R. (2008) the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 267, 276.
	100mH		
	110mH		
	400mH		
24-Jun	2000 Prefontaine Classic (Eugene, OR)		
	400m mF (johnson)		Track Newsletter (2000). US invitationals- eugene GP. <i>Track Newsletter</i> 46(8). p. 140.
24-Mar	2000 ??? (Pretoria, RSA) (Altitude)		
	300m mF (johnson)		Track Newsletter (2000). Major internationals- pretoria. <i>Track Newsletter</i> 46(4). p. 67.
22-Aug	1999 IAAF World Championships (Seville, ESP)		
	100m mF, wF		Ferro, A., Rivera, A., Pagola, I., Ferreruela, M., Martin, Á., & Rocandio, V. (2001). Biomechanical analysis of the 7th world championships in athletics seville 1999. <i>New Studies of Athletics</i> , 16 (1/2), p29-35, 37-43.
	200m mF, wF		Ferro, A., Rivera, A., Pagola, I., Ferreruela, M., Martin, Á., & Rocandio, V. (2001). Biomechanical analysis of the 7th world championships in athletics seville 1999. <i>New Studies of Athletics</i> , 16 (1/2), p45-47, 49-51.
	mH (eriksson)		Andersson, H.(2007) Windsprint 2007 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)
	wSF		Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
	400m mF, wF		Ferro, A., Rivera, A., Pagola, I., Ferreruela, M., Martin, Á., & Rocandio, V. (2001). Biomechanical analysis of the 7th world championships in athletics seville 1999. <i>New Studies of Athletics</i> , 16 (1/2), p53-55, 57-59.
	100mH wF, wSF, wQF, wH		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas (in Spanish)
	110mH mF, mSF, mQF, mH		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas (in Spanish)
	400mH mF, mSF, mH, wF, wSF, wH		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas (in Spanish)
6-Aug	1999 European Junior Championships (Riga, LAT)		
	200m mH (cavallaro)		Di Mulo, F. (2009). Mezzi e metodi di allenamento dello sprinter di elevato livello. <i>Atleticastudi</i> , p143. (in Italian)
24-Jul	1999 FRA vs ITA vs ??? 3 Nations (Albertville, FRA)		
	200m mF (cavallaro)		Di Mulo, F. (2009). Mezzi e metodi di allenamento dello sprinter di elevato livello. <i>Atleticastudi</i> , p143. (in Italian)
26-Jun	1999 USATF National Championship (Eugene, OR)		
	400m mF, wF		Track Newsletter (1998) - USATF national championships. <i>Track Newsletter</i> 45(19). p. 145, 148.
16-Jun	1999 Tsiklitiria Grand Prix II (Athens, GRE)		
	100m mF (greenie)		Lee, J. (2008). Usain Bolt 100m 10 meter Splits and Speed Endurance. speedendurance.com/2008/08/22/usain-bolt-100m-10-meter-splits-and-speed-endurance/
13-Jun	1999 LIVE (Nurnberg, GER)		
	100m mF (surin)		Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
10-Jun	1999 Ericsson (Helsinki, FIN)		
	200m wF (jones)		Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (TV Analysis) (in German)
5-Jun	1999 NCAA Championships (Boise, ID)		
	400m mF, wF		Track Newsletter (1999) - NCAA championships. <i>Track Newsletter</i> 45(16). p. 123, 126.
16-May	1999 SEC Championship (Athens, GA)		
	400m mF		Track Newsletter (1999). SEC Championships. <i>Track Newsletter</i> 45(13). p. 105.
18-Apr	1999 Mt. SAC Relays (Walnut, CA)		
	400m wF		Track Newsletter (1999). Mt. SAC relays, invitational women. <i>Track Newsletter</i> 45(9). p. 73.
6-Mar	1999 NCAA Indoor Championships (Indianapolis, IN)		
	60m wF		Winckler (2008) - running parameters
20-Feb	1999 Sydney Grand Prix (Sydney, AUS)		
	110mH mF (jackson)		Arnold, J. (2009). UK Athletics - Hurdling Masterclass; London, UK.
11-Sep	1998 IAAF World Cup (Johannesburg, RSA)		
	200m wF (jones, ogunkoya)		Veney - 200m women from PJ
20-Aug	1998 European Championships (Budapest, HUN)		
	200m mH (bittner)		Veney - split times from PJ
	100mH wF		Sanchez (1998) - Budapest '98: análisis de la carreras con villas (in Spanish)
	110mH mF		Sanchez (1998) - Budapest '98: análisis de la carreras con villas (in Spanish)
	400mH mF		Behm, J.-J. (1998). Analyse et commentaries: Le 400m haies: Pavel la surprise! <i>Revue de l'AEFA</i> , (151), p22. (in French)
	mF, wF		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas (in Spanish)
2-Aug	1998 Spanish National Championships (San Sebastián, ESP)		

- 100mH wF Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas (in Spanish)
 110mH mF Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas (in Spanish)
 400mH mF, mSF, wF Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas (in Spanish)
- 20-Jun **1998 USATF National Championships (New Orleans, LA)**
 400m mF, wF Track Newsletter (1998) - USATF national championships. Track Newsletter 44(16). p. 129, 131.
- 6-Jun **1998 NCAA Championships (Amherst, NY)**
 100mH wH (morrison) Mann (1998) - usatf elite sprint & hurdle summit
 400m mF, wF Track Newsletter (1998) - NCAA championships. Track Newsletter 44(15). p. 115, 118.
- 12-May **1998 ??? (Chengdu, CHN)**
 110mH mF (chen) Yuan Y., & Lu J. (1998). Chen Yanhao analysis of 110m results. Social Sciences II, p6. (in Chinese)
- 19-Oct **1997 Chinese National Games (Shanghai, CHN)**
 110mH mF (chen) Zhang Y. (1999) Analysis of 110m hurdles of Chen Yanhao. Chinese Athletic Association, 7. p. 17 (in Chinese)
- 13-Aug **1997 Weltklasse (Zurich, SUI)**
 200m wF Track Newsletter (1997) - Zurich GP. Track Newsletter 43(20). p. 162.
 400m mF Track Newsletter (1997) - Zurich GP. Track Newsletter 43(20). p. 161.
- 3-Aug **1997 IAAF World Championships (Athens, GRE)**
 100m mF, wF Ritzdorf, W. (1997). 100 meters. In Müller, H., & Hommel, H. (Eds.) Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report. New Studies in Athletics, 12(2), p46-47.
 200m mF, wF Ritzdorf, W. (1997). 200 meters. In Müller, H., & Hommel, H. (Eds.) Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report. New Studies in Athletics, 12(2), p48-49.
 400m mF, wF Ritzdorf, W. (1997). 400 meters. In Müller, H., & Hommel, H. (Eds.) Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report. New Studies in Athletics, 12(2), p50-51.
 mSF (johnson) Bondachuk, A.P. (2007) - Transfer of training in sports. Michigan, USA: Ultimate Athlete Concepts. p. 185.
 100mH wF Hommel, H. (1997). 110 and 100 meters hurdles. In Müller, H., & Hommel, H. (Eds.) Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report. New Studies in Athletics, 12(2), p56.
 110mH mF Hommel, H. (1997). 400 meters hurdles. In Müller, H., & Hommel, H. (Eds.) Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report. New Studies in Athletics, 12(2), p51, 53.
 400mH mF, wF Hommel, H., & Koszewski, D (1999). Biomechanical analysis of the sprinting events: 400m hurdles. In Brüggemann, G.-P., Koszewski, D., & Müller, H. IAAF Biomechanical Research Project Athens 1997: Final Report. Oxford, UK; Meyer & Meyer Sport. p76-81.
- 28-Jun **1997 German National Championships (Frankfurt, GER)**
 100m wF (paschke) Groser, & Renner (2007). Schnelligkeitstraining: Grundlagen, methoden, leistungssteuerung, programme für all sportart. München, GER; BLV Buchverlag GmbH & Co.KG. p 123 (in German)
- 21-Jun **1997 European Cup (Munich, GER)**
 100m mF, wF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 200m mF, wF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 400m mF, wF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 100mH wF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 110mH mF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
 400mH mF, wF Jung, K., Heß, W.-D., Graubner, R., Fromm, A., & Dockhorn, K. (2003) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 13-Jun **1997 USATF Championships (Indianapolis, IN)**
 100m mF, wF Track Newsletter (1997) - USATF national championships. Track Newsletter 43(15). p. 105, 118.
 400m mF, mSF, wF, wSF Track Newsletter (1997) - USATF national championships. Track Newsletter 43(15). p. 105, 118.
- 13-Jun **1997 Weltklasse (Stuttgart, GER)**
 100m mF (greene) Arakelyan, E. (1998) Whether deliberate analysis? Legkaya Atletika, 6(4). p. 17. (in Russian)
- 13-Jun **1997 LIVE (Nurnberg, GER)**
 100m mF (bailey) Groser, & Renner (2007). Schnelligkeitstraining: Grundlagen, methoden, leistungssteuerung, programme für all sportart. München, GER; BLV Buchverlag GmbH & Co.KG. p 126 (in German)
- 8-Jun **1997 Sparkasse (Dortmund, GER)**
 100m wF (philipp) Graubner, R. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 7-Jun **1997 NCAA Championships (Bloomington, IN)**
 400m mF Track Newsletter (1997) - NCAA championships. Track Newsletter 43(14). p. 105.
- 31-May **1997 "World's Fastest Man" (Toronto, CAN)**
 150m mF Vazel, P.-J. (2009) Le blog du sprint Retrieved from <http://futuraanterior.wordpress.com/> (in French)
- 18-May **1997 Southeastern Conference Championships (Auburn, AL)**
 100mH wF (walker) Shaver, D. (2002). Hurdle training design. USATF Advanced Sprints Summit; Boise, ID.
- 14-Oct **1996 ??? (Hiroshima, JPN)**
 400mH mF (tamesue) Kishima, T., Fukuda, K., Onishi, K., & Hikaru, A. (2022). 75th high school championships: biomechanics data collection. p. 14. (in Japanese)
- 23-Aug **1996 Memorial Van Damme (Brussels, BEL)**
 110mH mF (johnson) Shi Y. (2013). A comprehensive study of the "three characteristics" of the men's 110m hurdles. Social Sciences II, p22. (in Chinese)
- 10-Aug **1996 Herculis (Monaco, MON)**
 400m wF (perec) Vazel, P.-J. (2018.07.20) Retrieved from <https://twitter.com/pjvazel>
- 1-Aug **1996 Olympic Games (Atlanta, GA)**

100m	mF (4)	Groser, & Renner (2007). <i>Schnelligkeitstraining: Grundlagen, methoden, leistungssteuerung, programme für all sportart</i> . München, GER; BLV Buchverlag GmbH & Co.KG. p 123 (in German)
	mH (chen)	Chen Y. (2012). <i>Comparison of technical characteristics and development trends of Chinese and foreign men's 100-meter sports</i> . <i>Social Sciences II</i> , p82. (in Chinese)
	wSF (ottey)	Ritzdorf, W. (1997). 100 meters. In Müller, H., & Hommel, H. (Eds.) <i>Biomechanical research project at the VI th world championships in athletics, Athens 1997: preliminary report</i> . <i>New Studies in Athletics</i> , 12(2), p47.
200m	mF, wF	Veney - split times from PJ
	mF (williams, marsh)	Maisetti, J. (1996). <i>Observation des courses de vitesse d'Atlanta</i> . <i>Revue de l'AEFA</i> , (143), p10. (in French)
	wSF (percec)	Vazel, P.-J. (2011). <i>Speed reserve in the 400m</i> . www.uka.org.uk/coaching .
400m	mF (johnson), wF (percec)	Urtebise, F. (1996). <i>Atlanta 1996 : 400m</i> . <i>Revue de l'AEFA</i> , (143), p11. (in French)
	wF (freeman)	Vazel, P.-J. (2011). <i>Speed reserve in the 400m</i> . www.uka.org.uk/coaching .
	mF, wF, wSF	Butler, M. (2016). <i>IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016</i> . IAAF Communications Department, p85, 234.
100mH	wF	Butler, M. (2016). <i>IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016</i> . IAAF Communications Department, p253.
110mH	mF	Butler, M. (2016). <i>IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016</i> . IAAF Communications Department, p128.
400mH	mF, wF	McFarlane, B. (2000). <i>The science of hurdling and speed</i> . Ottawa, ONT; The Canadian Track and Field Association. p26-27.
	mF, wF	Behm (1996) - 400m haies
6-Jul	1996 ??? (Tarare, FRA)	Veney - split times from PJ
	400mH wF	
3-Jul	1996 Athletissima (Laussane, SUI)	
	400m mF (johnson)	ferrari (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&catid=9&id=1813)
29-Jun	1996 Eurorpean Cup - 1st League (Lisboa, POR)	
	100mH wF (bukovec)	Coh, M., Kastelic, J., & Pintaric, S. (1998). <i>A biomechanical model of the 100m hurdles of Birgita Bukovec</i> . <i>Track Coach</i> , (142), p5429.
28-Jun	1996 USATF National Junior Championships (Delaware, OH)	
	100m wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USATF National Junior Championships</i>
	200m wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USATF National Junior Championships</i>
	400m wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USATF National Junior Championships</i>
	100mH wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USATF National Junior Championships</i>
	110mH	
	400mH wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USATF National Junior Championships</i>
???	1996 French National Championships (Evry, FRA)	
	400mH mF (mbaye)	Veney - split times from PJ
23-Jun	1996 USA Olympic Trials (Atlanta, GA)	
	100m mF, wF, wSF	USATF Women's Sprint Development (1996). <i>Report from 1996 USA Olympic Trials</i>
	200m mF, mSF, wF, wSF	USATF Women's Sprint Development (1996). <i>Report from 1996 USA Olympic Trials</i>
	mQF, mH	Hymans, R. (2020). <i>History of the US olympic trials - track and field</i> . Los Altos, CA: Track and Field News. p2. Retrieved from: https://trackandfieldnews.com/wp-content/uploads/2018/03/1996.pdf
	400m mF, mSF, wF, wSF	USATF Women's Sprint Development (1996). <i>Report from 1996 USA Olympic Trials</i>
	100mH wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USA Olympic Trials</i>
	110mH mF	McNichols, J. (2000). <i>Hurdle technique study through video analysis</i> . USATF Super Clinic, CSU Sacramento.
	400mH mF	McNichols, J. (2000). <i>Hurdle technique study through video analysis</i> . USATF Super Clinic, CSU Sacramento.
	mSF, mH	Lyle, B. (1996) <i>Miscellaneous coaching notes</i>
	wF	USATF Women's Sprint Development (1996). <i>Report from 1996 USA Olympic Trials</i>
21-Jun	1996 German National Championships (Koln, GER)	
	100m wF (paschke)	Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
	100mH wSF (jung)	Hommel ??? (in German)
12-Jun	1996 DLV Leichtathletik Gala (Duisburg, GER)	
	100m mF (bailey)	Graubner, R. (2007) Retrieved from http://www.fgs.uni-halle.de (in German)
	200m mF (fredricks)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
7-Jun	1996 LIVE (Nurnberg, GER)	
	110mH mF (schwarthoff)	Graubner, R. (2009) Retrieved from http://www.fgs.uni-halle.de (in German)
18-May	1996 Atlanta Grand Prix (Atlanta, GA)	
	400m mF, wF	Track Newsletter (1996) - Atlanta GP- hot debut for Olympic track. <i>Track Newsletter</i> 42(18). p. 133.
10-Feb	1996 French International Indoor Championships (Bercy, FRA)	
	60m mF, mH, wF, wH	Gajer, B., Aubert, F., Maisetti, J., Mathieu, C., Morth, S., & Rega, C. (1996). <i>Analyse des frequences, amplitudes et vitesse pour les courses de 60m aux internationaux de France d'athletisme</i> . <i>Revue de l'AEFA</i> , (142), p33. (in French)
16-Aug	1995 Weltklasse (Zurich, SUI)	
	400m mF (johnson)	Track Newsletter (1995) - major international meets - zurich GP. <i>Track Newsletter</i> 41(31). p. 244.
	400mH wF (percec)	Veney - split times from PJ
11-Aug	1995 IAAF World Championships (Göteborg, SWE)	
	100m	
	200m mF (johnson)	Vazel, P.-J. (2011). <i>Speed reserve in the 400m</i> . www.uka.org.uk/coaching .
	wF	Veney - 200m women from PJ
	400m mF (johnson)	Pariente, R., Billouin, A. (2003). <i>La fabuleuse histoire de l'athletisme</i> . Paris: Minerva. p187. (in Spanish)
	mF, wF	Track Newsletter (1995) - World Championships V. <i>Track Newsletter</i> 41(30). p. 233-34, 238-39.

wF (pérec, freeman) Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p215.

100mH

110mH

400mH mF, wF

Behm, J.-J. (1999). - Les chiffres: Les podiums de tous les championnats et les worlds records depuis le synthétique: en 68: Hommes - en 78: Femmes. Revue de l'AEFA, p50-51. (in French)

wF (buford)

Winckler/USATF (2001) - Level II: sprints, hurdles, and relays

28-Jul **1995 European Junior Championships (Nyiregyhaza, HUN)**

400mH mH

Hommel, H. (2007). Sprinttechnik beobachten und analysieren! Leichtathletiktraining, 18(2+3), p71. (in German)

21-Jul **1995 Bislett Games (Oslo, NOR)**

400m wF (pérec)

Behm, J.-J. (1999). Les 4 travaux de Marie-Jo. Revue de l'AEFA, p54. (in French)

8-Jul **1995 ??? (Postojna, SLO)**

100mH wF (bukovec)

Coh, M., & Dolenec, A. (1996). Three-dimensional kinematic analysis of the hurdles technique used by Brigita Bukovec. New Studies in Athletics, 11(1), p64.

5-Jul **1995 Athletissima (Luasanne, SUI)**

400mH mF (Diagana)

Behm, J.-J. (1999). Les deux recordmen de france Stéphane Diagana: Grand champions et grand garçon. Revue de l'AEFA, p57. (in French)

3-Jul **1995 Gaz de France (Paris, FRA)**

400m wF (pérec)

Behm, J.-J. (1999). Les 4 travaux de Marie-Jo. Revue de l'AEFA, p54. (in French)

2-Jul **1995 German National Championships (Bremen, GER)**

110mH mF (schwarthoff)

Graubner, R. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)

24-Jun **1995 European Cup (Villeneuve d'Ascq, FRA)**

400m wF (pérec)

Behm, J.-J. (1999). Les 4 travaux de Marie-Jo. Revue de l'AEFA, p54. (in French)

16-Jun **1995 USATF National Championships (Sacramento, CA)**

100m wF

Lyle, B. (1995) Miscellaneous coaching notes

200m wF

USATF Women's Sprint Development (1995). Report from 1995 USATF National Championships

400m mF, wF

Track Newsletter (1995) - USATF national championships. Track Newsletter 41(23). p. 183, 186.

3-Jun **1995 NCAA Championships (Baton Rouge, LA)**

400m mF

Track Newsletter (1995) - NCAA championships. Track Newsletter 41(21). p. 162.

15-Oct **1994 Asian Games (Hiroshima, JPN)**

110mH mF (chen)

Yuan Y., & Lu J. (1998) Chen Yanhao analysis of 110m results. Chinese Sports Coach, 3. p. 5 (in Chinese)

10-Aug **1994 European Championships (Helsinki, FIN)**

400mH mF, wF

Behm, J.-J. (1995). La tactique du 400 haies. Revue de l'AEFA, pp.41-44. (in French)

2-Aug **1994 Herculis (Monaco, MON)**

400m wF (freeman)

Vazel, P.-J. (2011). Speed reserve in the 400m. www.uka.org.uk/coaching.

20-Jul **1994 ??? (Tønsberg, NOR)**

100m mF ????

Andersson, H. (2007) Windsprint 2007 Splittider. Retrieved from www.ssg.se/en/Windsprint/Split-times/ (in Swedish)

4-Jul **1994 Italian National Championships (Naples, ITA)**

100m mF, mSF(1), wF

Locatelli, E., & Arzac, L. (2000). The mechanics and energetics of the 100m sprint. In The Sprints & Relays: Contemporary Theory, Technique and Training. Mountain View, CA: Track and Field News. p23.

12-Jun **1994 DLV Leichtathletik Gala (Duisburg, GER)**

100m mF, mH (blume)

Stein, R. (1994). Für sprinter: Das training vom 1994. Leichtathletiktraining, 5(8), p31. (in German)

200m mF (johnson)

Graubner, R. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)

6-Mar **1994 Hallensportfest (Sindelfingen, GER)**

60mH mF (jackson)

Vazel (2020) - coaching observations

10-Oct **1993 ??? (Pesaro, ITA)**

400mH mF

Partipilo, G., & Dittolro, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p6. (in Italian)

3-Oct **1993 ??? (Bergamo, ITA)**

400mH mF

Partipilo, G., & Dittolro, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p8. (in Italian)

13-Sep **1993 Chinese National Games (Beijing, CHN)**

100m wF

Feng R., Guo J., Zhang M., & Jin Q. (1992). Beijing asian games women's 100m, 200m, 400m technical analysis. Journal of Xi'an physical education institute, 19. p. 25. (in Chinese)

400m wF (ma)

Wang H. (2012). Research on the analysis of the speed distribution of China's outstanding female 400-meter runners. JOURNAL NAME ???, 38. p. 24. (in Chinese)

100mH wF

Bo W. (1996) A study on female 100m hurdles running rhythm in the 7th national games. Journal of Wuhan Institute of Physical Education, 3 (114), p.26. (in Chinese)

110mH mF (chen)

Yuan Y., & Lu J. (1998) Chen Yanhao analysis of 110m results. Chinese Sports Coach, 3. p. 5 (in Chinese)

400mH wF (han)

Wang J., Ruan Z., & Yu R. (2016). Hurdle rhythm characteristic analysis and athletic training considerations for domestic and foreign outstanding female 400m hurdle athletes. Bulletin of Sport Science & Technology, (10), p70. (in Chinese)

wF (zheng)

Xu X. (1993). Training about Zhen Liyuan in 400m hurdles. Journal of Xi'an Physical Education Institute, 10 (4), p29-30. (in Chinese)

9-Sep **1993 ??? (Bologna, ITA)**

400mH mF

Partipilo, G., & Dittolro, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p6. (in Italian)

8-Sep **1993 ??? (Urbino, ITA)**

400mH mF

Partipilo, G., & Dittolro, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p8. (in Italian)

15-Aug **1993 IAAF World Championships (Stuttgart, GER)**

100m mF(2), wF(devers, ottey)

Graubner, R. (2007) Retrieved from <http://www.fgs.uni-halle.de> (in German)

	wF (torrence, privalova)	Price (1994) - split times for 100m sprint, 1993 IAAF world championship
	mF	Stein, R. (1993). Verbesserung der schnelligkeit. Leichtathletiktraining, 4(7), p33. (in German)
	mSF (mahorn, blume)	Busemann, F.-J. (2001). Der deutsche sprint! Oder: warum laufen andere schneller? WLW - Training, 6, p (in German)
	200m mF, mSF, wF	Veney - split times from PJ
	mF(2)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
	mF	Busemann, F.-J. (2001). Der deutsche sprint! Oder: warum laufen andere schneller? WLW - Training, 6, p (in German)
	400m mF (2)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
	mF (kitur, bada), wF	Smith, M. (1994). 400m pace control. Athletics Coach, 28(2), p13-14.
	mF, wF	Butler, M. (2013). IAAF world championships statistics handbook- moscow 2013. Monaco, MON; IAAF. p86, 213-214.
	100mH wF (devers)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
	110mH mF (jackson)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
	400mH mF (4), wF	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
	mSF	Letzelter (1995) - schrittgestaltung im 400m-hürdenlauf der jugend (in German)
	wF, wSF	Veney, T. (1994). Hurdle analysis- women's 400m hurdles 1993 world championships (semis and finals). USATF Women's Hurdle Development Newsletter, January 1994,
	wF	Winckler, G. (1994). Principles for development of the 400m hurdle program. USATF Women's Hurdle Development Newsletter, January 1994,
1-Aug	1993 European Junior Championships (San Sebastian, ESP)	
	100mH wF, wH (fust)	Hücklekemkes, J. (1997). Geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints. Leichtathletik, 8(1), p30. (in German)
11-Jul	1993 German National Championships (Duisburg, GER)	
	100m mF (M.blume), mH (H.blume)	Stein, R. (1994). Für sprinter: Das training vom 1994. Leichtathletiktraining, 5(8), p31. (in German)
	mH (konieczny)	Busemann, F.-J. (2001). Der deutsche sprint! Oder: warum laufen andere schneller? WLW - Training, 6, p (in German)
1-Jul	1993 ??? (Bologna, ITA)	
	400mH mF	Partipilo, G., & Ditollo, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p6. (in Italian)
???	1992 ??? (???)	
	400mH wF (leng xueyan)	Cui Z. (2008). Research on the rhythm characteristics of outstanding female 400m hurdlers in China. Social Sciences II, p277. (in Chinese)
1-Aug	1992 Olympic Games (Barcelona, ESP)	
	100m mF, wF	Arnold, M. (1992). 1992 Olympic report: 100m men. Athletics Coach, 26(4), p13.
	200m mSF (marsh)	Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 47
	wF	Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p231.
	wSF	Veney - 200m women from PJ
	400m mF (watt)	Vazel, P.-J. (2015) Van Niekerk and Merritt were on for the record at 300m. Retrieved from: http://www.track-stats.com/van-niekerk-and-merritt-were-on-for-the-record-at-300m/
	mF, wF	Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p85, 234.
	100mH wQF, wH	Lyle, B. (1992) Miscellaneous coaching notes
	110mH mF	Knight, G. (1992). 1992 Olympic report: the hurdling events. Athletics Coach, 26(4), p22.
	400mH mF (young)	Letzelter, H., Honda, Y., & Steinmann, W. (1995). Schrittgestaltung im 400m-hürdenlauf der jugend. Die Lehre der Leichtathletik, (9), p27.
	mF (graham), wF	Knight, G. (1992). 1992 Olympic report: the hurdling events. Athletics Coach, 26(4), p29.
	mF (akabusi)	Arnold, M. (1992) - Hurdling. Birmingham, ENG: British Athletic Federation. p. 20.
	mF	Belloc, O. (1992). Diagona: 45.18 / 48.13 : 3" d'ecart; incompressibles? Revue de l'AEFA, (127), p16. (in French)
	wSF, wH	Lyle, B. (1992) Miscellaneous coaching notes
28-Jun	1992 French National Championships (Narbonne, FRA)	
	400m mF (Diagona)	Belloc, O. (1992). Diagona: 45.18 / 48.13 : 3" d'ecart; incompressibles? Revue de l'AEFA, (127), p15. (in French)
	400mH mF	Veney - split times from PJ
19-Jul	1992 ??? (Ingolstadt, GER)	
	200m wF (knoll)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
18-Jul	1992 U23 European Cup (Villeneuve d'Ascq, FRA)	
	400mH wF	Veney - split times from PJ
22-Jun	1992 French National Championships (Narbonne, FRA)	
	400mH wF	Veney - split times from PJ
31-May	1992 ??? (Corridonia, ITA)	
	400mH mF	Partipilo, G., & Ditollo, M. (1994). La distribuzione dello sforzo nei 400m ad ostacoli. Nuova Atletica, (124), p8. (in Italian)
4-Apr	1992 Fresno Relays (Fresno, CA)	
	110mH mH (li)	Wang Y. (2009) The research of training characteristic during different stages in the development of 110m hurdles. (Dissertation). Beijing Sport University. p. 44. (in Chinese)
???	1991 ??? (???)	
	400mH wF (leng xueyan)	Cui Z. (2008). Research on the rhythm characteristics of outstanding female 400m hurdlers in China. Social Sciences II, p277. (in Chinese)
27-Aug	1991 IAAF World Championships (Tokyo, JPN)	

	100m mF	Ae, M., Ito, A., & Suzuki M. (1992). <i>The men's 100m</i> . New Studies in Athletics, 7(1), p49.
	wF	Butler, M. (2013). <i>IAAF world championships statistics handbook- moscow 2013</i> . Monaco, MON; IAAF. p85, 202.
	200m mF, wF	Butler, M. (2013). <i>IAAF world championships statistics handbook- moscow 2013</i> . Monaco, MON; IAAF. p80, 208.
	400m mF, wF	Butler, M. (2013). <i>IAAF world championships statistics handbook- moscow 2013</i> . Monaco, MON; IAAF. p86, 213.
	mF	Mochida, H., Sugita, M., Matsuo, A., Hirokawa, R., Yanagiya, T., & Ae, T. (2008). <i>About the race pattern of the men's 400m in the world's top level</i> . Bulletin of Studies in Athletics of JAAF, 4, p73. (in Japanese)
	100mH wF, wH	Numazawa (1991) - <i>analysis of time in the 3rd world athletics championships, women's 100m hurdles</i>
	110mH	
	400mH mF, wF	Behm, J.-J. (1995). <i>La tactique du 400 haies</i> . Revue de l'AEFA, pp.41-44. (in French)
8-Aug	1991 European Junior Championships (Thessaloniki, GRE)	
	100m mF (blume)	Stein, R. (1993). <i>Die beschleunigungsfähigkeit bestimmt die sprintleistung</i> . Leichtathletiktraining, 4(5/6), p36. (in German)
11-Jul	1991 USSR National Championships (Kiev, URS)	
	100mH wF	Stepanov, V. (2004). <i>Speed and (or?) technique: Gail Devers and others</i> . In Javer, J. (Ed) <i>The Hurdles: Contemporary Theory, Technique and Training</i> . Mountain View, CA; Track and Field News. p99.
5-Aug	1991 KVP-Galan (Malmo, SWE)	
	400m mF (black)	Behm, J.-J., & Duvigneau, D. (1995). <i>Colloque 400m haies</i> . Revue de l'AEFA, (138), p44. (in French)
29-Jun	1991 European Cup (Frankfurt, GER)	
	100m mF, wF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
	200m mF, wF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
	400m mF, wF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
	100mH wF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
	110mH mF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
	400mH mF, wF	Federle, R., Heß, W.-D., Bosse, T., Girbig, J., & Graubner, R. (2003) Retrieved from http://www.fgs.uni-halle.de (in German)
28-Jul	1991 German National Championships (Hannover, GER)	
	200m wF (krabbe)	Graubner, R. (2008) Retrieved from http://www.fgs.uni-halle.de (in German)
1-Oct	1990 Asian Games (Beijing, CHN)	
	100m wF	Feng R., Guo J., Zhang M., & Jin Q. (1992). <i>Beijing asian games women's 100m, 200m, 400m technical analysis</i> . Journal of Xi'an physical education institute, 19. p. 25. (in Chinese)
	200m wF	Feng R., Guo J., Zhang M., & Jin Q. (1992). <i>Beijing asian games women's 100m, 200m, 400m technical analysis</i> . Journal of Xi'an physical education institute, 19. p. 28. (in Chinese)
	400m wF	Feng R., Guo J., Zhang M., & Jin Q. (1992). <i>Beijing asian games women's 100m, 200m, 400m technical analysis</i> . Journal of Xi'an physical education institute, 19. p. 30. (in Chinese)
	110mH mF (yu)	Feng D. (1993) <i>An analysis of the racing technique in the entire course of the men's 110m hurdles</i> . China Sport Science, 13 (2), p. 75. (in Chinese)
29-Aug	1990 European Championships (Split, YUG)	
	400mH mF (akabusi)	Arnold, M. (1992) - <i>Hurdling</i> . Birmingham, ENG: British Athletic Federation. p. 20.
	mF, wF	Behm, J.-J. (1995). <i>La tactique du 400 haies</i> . Revue de l'AEFA, pp.41-44. (in French)
19-Aug	1990 Résisprint International (LaChaux-de-Fonds, SUI)	
	400H wF (cazier)	Veney - split times from PJ
24-Jul	1990 Goodwill Games (Seattle, WA)	
	100m wF	Lyle, B. (1990). <i>Coaching observations - Goodwill games women's 100m splits</i>
24-Jun	1990 Asian Games Test (Beijing, CHN)	
	400mH wF (chen juying)	Guo J., & Zhang K. (2007) <i>Study on relationship between the rhythm and performance of 400m hurdles</i> . Journal of Hubei Sports Science, 26 (3), p. 26. (in Chinese)
	wF (chen dongmei)	Fan X., & Song Y. (1992) <i>Implementing Chen Dongmei's four-year training plan: Regularities of 400m hurdle</i> . Journal of Beijing Institute of Physical Education, 15 (4), p.15. (in Chinese)
5-Jun	1990 Eight Nations (Milano, ITA)	
	400H wF (cazier)	Veney - split times from PJ
8-Sep	1989 IAAF World Cup (Barcelona, ESP)	
	100m mF, wF	Pascua, M. (1990). <i>Carreras de velocidad</i> . In Pascua, M., & Gil, F. <i>Atletismo (I) carreras y marcha</i> (in Spanish)
	200m mF, wF	Pascua, M. (1990). <i>Carreras de velocidad</i> . In Pascua, M., & Gil, F. <i>Atletismo (I) carreras y marcha</i> (in Spanish)
	400m wF	Pascua, M. (1990). <i>Carreras de velocidad</i> . In Pascua, M., & Gil, F. <i>Atletismo (I) carreras y marcha</i> (in Spanish)
	100mH wF	Gil, F. (1990). <i>Carreras con vallas</i> . In Pascua, M., & Gil, F. <i>Atletismo (I) carreras y marcha</i> (in Spanish)
	110mH mF	Gil, F. (1990). <i>Carreras con vallas</i> . In Pascua, M., & Gil, F. <i>Atletismo (I) carreras y marcha</i> (in Spanish)
	400mH	
???	1989 ??? (???)	
	400mH wF (chen dongmei)	Fan X., & Song Y. (1992) <i>Implementing Chen Dongmei's four-year training plan: Regularities of 400m hurdle</i> . Journal of Beijing Institute of Physical Education, 15 (4), p.15. (in Chinese)
24-Sep	1988 Olympic Games (Seoul, KOR)	
	100m mF, mSF, wF, wSF	Brüggemann, G.-P., & Glad, B. (1990). <i>Scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i> . Monaco, MON; IAAF. p46-65.
	mF (smith)	Bondachuk, A.P. (2007) - <i>Transfer of training in sports</i> . Michigan, USA: Ultimate Athlete Concepts. p. 184.
	wH (zhirnova)	Levchenko, A. (1990). <i>Questions and answers about women's sprinting</i> . Soviet Sports Review, 25(4), p

- 200m mF, mSF, wF, wSF Brüggemann, G.-P., & Glad, B. (1990). *Scientific research project at the games of the XXXIV Olympiad, Seoul 1988*. Monaco, MON; IAAF. p66-77.
- 400m mF, mSF, wF, wSF Brüggemann, G.-P., & Glad, B. (1990). *Scientific research project at the games of the XXXIV Olympiad, Seoul 1988*. Monaco, MON; IAAF. p78-89.
- 100mH wF, wSF Brüggemann, G.-P., & Glad, B. (1990). *Scientific research project at the games of the XXXIV Olympiad, Seoul 1988*. Monaco, MON; IAAF. p120-131.
- 110mH mF, mSF Brüggemann, G.-P., & Glad, B. (1990). *Scientific research project at the games of the XXXIV Olympiad, Seoul 1988*. Monaco, MON; IAAF. p108-119.
- 400mH mF, mSF, wF, wSF Brüggemann, G.-P., & Glad, B. (1990). *Scientific research project at the games of the XXXIV Olympiad, Seoul 1988*. Monaco, MON; IAAF. p152-175.
- mF(moses), wF Gil, F. (1990). *Carreras con vallas*. In Pascua, M., & Gil, F. *Atletismo (I) carreras y marcha (in Spanish)*
- mF Bondachuk, A.P. (2007) - *Transfer of training in sports*. Michigan, USA: *Ultimate Athlete Concepts*. p. 183.
- 20-Aug 1988 ??? (Stara Zagova, BUL) national meeting
- 100mH wF (donkova) Vazel, P.-J. (2016). *Analysis of Keni Harrison's World Record 100m Hurdles Race*. www.Simplifaster.com.
- 17-Aug 1988 Weltklasse (Zurich, SUI)
- 400m mF (reynolds) Bauersfeld, K.-H. (1992). *Grundlagen der leichtathletik: das standerwerk für ausbildung und praxis*. Berlin; Sportverlag. p112. (in German)
- mF (egbunike) Parienté, R. (1978). *400 mètres: Carrefour des vertus*. In Parienté, R., *la fabuleuse histoire de l'athlétisme* (p. 142). Paris: Edité par Editions O.D.I.L.E (in Spanish)
- 17-Jul 1988 USA Olympic Trials (Indianapolis, IN)
- 100m wF & wQF (flo-jo) Veney - Split times from PJ
- 200m mF Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 210-211.
- wF Veney - 200m women from PJ
- 400m mF, wF Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 211, 221-222.
- mSF Quercentani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 285
- 14-Aug 1988 French National Championships (Tours, FRA)
- 400m wF (pérec) Vazel, P.-J. (2011). *Speed reserve in the 400m*. www.uka.org.uk/coaching.
- 10-Jul 1988 Nikaia (Nice, FRA)
- 400m mF Veney - split times from PJ
- 28-Nov 1987 Chinese National Games (Guangzhou, CHN)
- 100mH wH (liu), wSF (du) Xia X., & Fu K. (1990). *Analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record*. Journal of Chengdu Institute of Physical Education, p48. (in Chinese)
- 110mH mH (yu) Feng D. (1993) *An analysis of the racing technique in the entire course of the men's 110m hurdles*. China Sport Science, 13 (2), p. 75. (in Chinese)
- ??? 1987 ??? (???)
- 400mH wF (chen juying) Cui Z. (2008). *Research on the rhythm characteristics of outstanding female 400m hurdlers in China*. Social Sciences II, p277. (in Chinese)
- 30-Aug 1987 IAAF World Championships (Rome, ITA)
- 100m mF Ward-Smith, A.J., & Radford, P.F. (2000). *Investigation of the kinetics of anaerobic metabolism by analysis of the performance of elite sprinters*. Journal of Biomechanics, 33, p1002.
- wF Ward-Smith, A.J., & Radford, P.F. (2000). *Energy conversion rates during sprinting with an emphasis on the performance of female athletes*. Journal of Sports Sciences, 18(10), p840.
- mF, mSF, mQF, Moravec, P., Ruzicka, J., Susanka, P., Dostal, E., Kodejš, M., & Nosek, M. (1988). *The 1987 International Athletic Foundation/IAAF Scientific Project Report: time analysis of the 100 metres events at the II World Championships in Athletics*. New Studies in Athletics, 3(3), p84-95.
- mH, wSF, wQF, wH Francis, C. (1997) - *Training for speed*. Canberra, AUS: Faccioni Speed and Conditioning Consultants. p. 18 & 19.
- mH (haas), wSF (issanjenko)
- 200m mF (1987). *Duell Johnson-Lewis am start entschieden*. Leichtathletik, 38(39), (in German)
- mF, mSF, mH, wF, Moravec, P., Ruzicka, J., Dostál, E., Sušanka, P., Kodejš, M., & Nosek, M. (1990). *Time analysis of the sprints*. In Brüggemann, P., & Sušanka, P. (Ed). *Scientific report on the second IAAF World Championships, Rome 1987 (2nd ed)*. Monaco, MON; International Athletic Foundation. p34-39.
- wSF, wH Veney - split times from PJ
- 400m mF, mSF, mH, wF, Moravec, P., Ruzicka, J., Dostál, E., Sušanka, P., Kodejš, M., & Nosek, M. (1990). *Time analysis of the sprints*. In Brüggemann, P., & Sušanka, P. (Ed). *Scientific report on the second IAAF World Championships, Rome 1987 (2nd ed)*. Monaco, MON; International Athletic Foundation. p49-54.
- wSF, wH
- 100mH wF, wSF, wH Susanka, P., Miskos, G., Millerova, V., Dostal, E., & Barac, F. (1988). *Time analysis of the sprint hurdle events at the II world championships in athletics*. New Studies in Athletics, 3(2), p66, 68, 70.
- 110mH mF, mSF, mH Susanka, P., Miskos, G., Millerova, V., Dostal, E., & Barac, F. (1988). *Time analysis of the sprint hurdle events at the II world championships in athletics*. New Studies in Athletics, 3(2), p60, 62, 64.
- 400mH mF, mSF, mH, wF, Sušanka, P., Kodejš, M., & Miskos, G. (1990). *Time analysis of the 400m hurdles*. In Brüggemann, P., & Sušanka, P. (Ed). *Scientific report on the second IAAF World Championships, Rome 1987 (2nd ed)*. Monaco, MON; International Athletic Foundation. p18-29.
- wSF, wH
- 20-Aug 1987 East German National Championships (Potsdam, GDR)
- 100m wF (gladisch) Tepper, E. (1989). *Zum entwicklungsstand und zum trainingssystem des ddr-frauenkurzsprints*. Leichtathletik, 40(21), p658. (in German)
- 400mH wF (busch) König, E. (1989). *On the present state of development, and questions of future development, in the 400m hurdles for women*. Athletics Coach, 23(1), p61-62.
- 16-Aug 1987 Résisprint International (LaChaux-de-Fonds, SUI)
- 400mH mF (vimbert) Behm, J.-J. (1988). 45-39, *Revue de l'AEFA*. (107). P19. (in French)

- 9-Aug **1987 European Junior Championships (Birmingham, GBR)**
400mH mF (lager) Veney - split times from PJ
- 9-Aug **1987 French National Championships (Annecy, FRA)**
400mH mF, wF Veney - split times from PJ
- 8-Aug **1987 Greece vs. Bulgaria vs. USSR (Drama, GRE)**
100mH wF (zagorcheva) Bondachuk, A.P. (2007) - Transfer of training in sports. Michigan, USA: Ultimate Athlete Concepts. p. 182.
- 16-Jul **1987 Meeting BNP D'Athletisme (Paris, FRA)**
400mH mF Behm, J.-J. (1988). 45-39, Revue de l'AEFA. (107). P19. (in French)
- 11-Jul **1987 West German National Championships (Gelsenkirchen, FRG)**
100mH wF (zackiewicz) Hucklekemkes, J. (1997). Velocity in the women's 100m sprint hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p75). Los Altos, CA: Track and Field News.
- 28-Jun **1987 European Cup (Prague, TCH)**
100m wF Sušanka, P. (1987). Hints on computer processing of biomechanical data. p572-578.
100mH wF Sušanka, P. (1987). Hints on computer processing of biomechanical data. p588-591.
- 26-Jun **1987 TAC National Championships (San Jose, CA)**
400m mF, wF Track Newsletter (1987) - TAC national championships. Track Newsletter 33(16). p. 101, 104.
400mH wF Mann, R. (1987) The elite athlete program biomechanical analysis of the long hurdles: TAC championship meet
- 13-Jun **1987 Meeting International de Dijon (Dijon, FRA)**
400mH wF Veney - split times from PJ
- 21-Jun **1987 GDR vs. USSR (Karl-Marx-Stadt, GDR)**
100mH wF (riefstahl) Breiser, V., & Korchemny, R. (1990). The road to success: Skill analysis of leading women hurdlers. Athletics Science Bulletin, 2(7), p
- 7-Jun **1987 Snamenski Memorial (Moscow, URS)**
100m wF (nuneva), wH (zhirnova) Levchenko, A. (1990). Questions and answers about women's sprinting. Soviet Sports Review, 25(4), p
- 6-Jun **1987 NCAA Championships (Baton Rouge, LA)**
400m mF, wF Track Newsletter (1987) - NCAA championships. Track Newsletter 33(15). p. 91, 94.
- 17-Sep **1986 IX USSR Spartakiade (Tashkent, URS)**
400mH wF Stepanova, N. (1997). My experiences in the 400m hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p117). Los Altos, CA: Track and Field News.
- 7-Sep **1986 Balkan Games (Ljubljana, YUG)**
100mH wF (donkova) Bondachuk, A.P. (2007) - Transfer of training in sports. Michigan, USA: Ultimate Athlete Concepts. p. 182.
- 9-Jul **1986 Goodwill Games (Moscow, URS)**
100m mF Levchenko, A. (1989). 100 meters in 9.83: the birth of a record. Soviet Sports Review, 24(4), p
wF (nuneva) Levchenko, A. (1990). Questions and answers about women's sprinting. Soviet Sports Review, 25(4), p
- 28-Aug **1986 European Championships (Stuttgart, FRG)**
200m mSF Veney - split times from PJ
wF Veney - 200m women from PJ
400m wF Bondachuk, A.P. (2007) - Transfer of training in sports. Michigan, USA: Ultimate Athlete Concepts. p. 185.
110mH mF, mSF Hommel, H. (1988). NSA photosequence 4 - 110m hurdles Stephane Caristan (FRA). New Studies in Athletics, 3(2), p75.
400mH mF, wF Behm, J.-J. (1995). La tactique du 400 haies. Revue de l'AEFA, pp.41-44. (in French)
wF Breiser, V., & Korchemny, R. (1990). Tendencias in the development of women for 400m races with hurdles. Athletics Science Bulletin, 2(8), p
- 16-Aug **1986 Golden Oval (Dresden, GDR)**
100m wF (dreschler) Tepper, E. (1989). Zum entwicklungsstand und zum trainingssysteme des ddr-frauenkurzsprints. Leichtathletik, 40(21), p658. (in German)
400m wF (muller) Bondarchuk, A. (2007) Transfer of training in sports. Michigan: Ultimate Athlete Concepts. p. 31.
- 13-Aug **1986 Bulgarian National Championships (Sofia, BUL)**
400m wF (pavlova) Bondarchuk, A. (2007) Transfer of training in sports. Michigan: Ultimate Athlete Concepts. p. 31.
- 10-Aug **1986 French National Championships (Aix les Bains, FRA)**
400mH mF, wF Veney - split times from PJ
- 26-Jul **1986 West German National Junior Championships (Krefeld, FRG)**
100mH wF (wolf) Hucklekemkes, J. (1997). Velocity in the women's 100m sprint hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p75). Los Altos, CA: Track and Field News.
- 17-Jul **1986 IAAF World Junior Championships (Athens, GRE)**
100m mF, wF Moravec, P., & Susanka, P. (1986). Sprints. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pA15.
200m mF, wF Moravec, P., & Susanka, P. (1986). Sprints. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pA16.
400m mF, wF Moravec, P., & Susanka, P. (1986). Sprints. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pA19-A20.
100mH wF Miskos, G., & Susanka, P. (1986). Hurdle Races. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pD11.
110mH mF Miskos, G., & Susanka, P. (1986). Hurdle Races. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pD10.
400mH mF, wF Miskos, G., & Susanka, P. (1986). Hurdle Races. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pD12-13.
- 27-Jun **1986 East German National Championships (Jena, GDR)**
100mH wF Aubert, R. (1987). Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p15. (in French)
110mH mF Aubert, R. (1987). Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p15. (in French)

- 26-Jan **1986 French National Indoor Championship (Lievín, FRA)**
60mH mF, mSF, mH, wF, wSF, wH Aubert, F. (1986). *Indoor-Video-Haies Etude des performances, 60 m haies féminines et masculines, Championnat de France Indoor, Liévin 1986. Revue de l'AEFA, (96), p42-43, 45-46. (in French)*
- 4-Oct **1985 IAAF World Cup (Canberra, AUS)**
200m wF Veney - 200m women from PJ
400m mF (clark) Butler, M. (2010). *1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010. Monaco, MON: IAAF. p27.*
wF (koch) Saunders, R. (2015). *400m performance- time as percentages splits. Modern Athlete and Coach, 53(4), p17*
wF (quirot) Vazel, P.-J. (2011). *Speed reserve in the 400m. www.uka.org.uk/coaching.*
- 23-Aug **1985 European Junior Championships (Cottbus, GDR)**
100mH wF, wSF, wH Warburton, D. (1985). *1985 european junior championships - hurdles. Athletics Coach, 19(4), p17*
110mH mF, mSF, mH Warburton, D. (1985). *1985 european junior championships - hurdles. Athletics Coach, 19(4), p16*
400mH mF, wF Warburton, D. (1985). *1985 european junior championships - hurdles. Athletics Coach, 19(4), p19*
- 21-Jun **1985 Great Britain vs. USA (Birmingham, GBR)**
400mH mF (robinson) Warden (1989) - *sprinting and hurdling*
- 13-Jul **1985 ??? (Paris, FRA)**
100mH wF (elloy) Aubert, R. (1987). *Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p14. (in French)*
- 19-Jun **1985 ??? (Marseille, FRA)**
100mH wF (elloy) Aubert, R. (1987). *Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p14. (in French)*
- 17-Jun **1985 Internationales Sportfest (Fürth, FRG)**
100mH wF, wH (elloy) Aubert, R. (1987). *Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p14. (in French)*
- 12-Jun **1985 ??? (Joinville, FRA)**
100mH wF Aubert, R. (1987). *Mesures et observations biomecaniques a propos des courses de haies hautes. Revue de l'AEFA, (100), p14. (in French)*
- 1-Jun **1985 NCAA Championships (Austin, TX)**
400m mF, wF Track Newsletter (1985) - *NCAA championships. Track Newsletter 31(12). p. 85, 88.*
- 16-Aug **1984 Women's Friendship Games (Praha, TCH)**
400m wF Bondarchuk, A. (2007) *Transfer of training in sports. Michigan: Ultimate Athlete Concepts. p. 185.*
400mH wF Stepanova, N. (1997). *My experiences in the 400m hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p117). Los Altos, CA: Track and Field News.*
- 8-Aug **1984 Olympic Games (Los Angeles, CA)**
200m mF, wF Vogel, H. (1984). *Olympische spiele in los angeles. Leichtathletik, 35(32/33), p1190. (in German)*
mQF, mH Veney - *split times from PJ*
400m mF, mH, wF, wSF Adams, G. (1984). *1984 Olympic Games - Sprints and hurdles - 200m & 400m. Athletics Coach, 18(4), p23, 25.*
mF, mSF Butler, M. (2016). *IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p85.*
400mH mF, wF Behm, J.-J. (1995). *La tactique du 400 haies. Revue de l'AEFA, pp.41-44. (in French)*
wSF Arnold, M. (1984). *1984 Olympic Games - Sprints and hurdles - hurdles. Athletics Coach, 18(4), p29.*
- 26-Jul **1984 East German Spitzenklasse (Dresden, GDR)**
400m wF (koch) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
- 21-Jul **1984 Olympischen Tag (Potsdam, GDR)**
100m wF (auerswald) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
200m mF (emmelman), wF (koch, wöckel) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
400m mF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
400mH wF (khromova) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
- 15-Jul **1984 East German Athletics Sportfest (East Berlin, GDR)**
400m mF (schonlebe) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*
- 22-Jun **1984 USSR National Championships (Kiev, URS)**
100mH wF Breiser, V., & Papanov, V. (1985). *Over the hurdles with Vera Akimova and Nadezdha Korshunova. Soviet Sports Review, 20(4), p181.*
- 21-Jun **1984 USA Olympic Trials (Los Angeles, CA)**
200m mF Hymans, R. (2008) *the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 193.*
mSF Hymans, R. (2020). *History of the US olympic trials - track and field. Los Altos, CA: Track and Field News. p2.*
Retrieved from: <https://trackandfieldnews.com/wp-content/uploads/2018/03/1984.pdf>
400m wF Hymans, R. (2008) *the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 204.*
- 6-Jun **1984 ??? (Nanjing, CHN)**
100m mf (zheng) Feng D. (1986). *Zheng Chen, the creator of the Asian men's 100-meter running record, analysis of the speed, pace, step frequency and amplitude of the 100-meter run. Sichuan Journal of Physical Education. p. 59. (in Chinese)*
- 3-Jun **1984 East German National Championships (Erfurt, GDR)**
200m wF (göhr) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)*

- 400m wF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 19-May **1984 ??? (Dresden, GDR)**
400mH wF (uibel) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 31-Aug **1983 Internationales Leichtathletiksportfest (Koblenz, FRG)**
400mH mF (moses) Arnold, M. (1992) - *Hurdling*. Birmingham, ENG: British Athletic Federation. p. 20
- 20-Aug **1983 European Cup (London, GBR)**
400mH wF Ewen, A. (1985). *Hurdles*. In Payne, H. (Ed) *Athletes in action: The official International Amateur Athletic Federation book on track and field techniques*. London; Pelham. p100.
- 14-Aug **1983 IAAF World Championships (Helsinki, FIN)**
100m mF, wF Moravec, P., & Susanka, P. (1986). *Sprints*. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) *IAAF biomechanical research - 1st World Junior Championships, Athens 1986*. pA13.
wF (30m) Butler, M. (2019). *IAAF world championships statistics handbook- Doha 2019*. Monaco, MON; IAAF. p247.
200m mF, wF Moravec, P., & Susanka, P. (1986). *Sprints*. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) *IAAF biomechanical research - 1st World Junior Championships, Athens 1986*. pA14.
400m mF, wF Butler, M. (2013). *IAAF world championships statistics handbook- moscow 2013*. Monaco, MON; IAAF. p85, 212.
wF Quercetani, R.L. (2005) *A world history of the one-lap race: The killer sprint, 400m and 4x 400m relay, men and women, 1850-2004*. Rome, ITA: SEP. p. 149.
wF (kratochvilová) Veney - *split times from PJ*
100mH wF, wSF, wQF Knoke, G. (1984). *The hurdles. Athletics Coach*, 22(2), p8-9.
110mH mF, mSF, mH Knoke, G. (1984). *The hurdles. Athletics Coach*, 22(2), p9.
400mH mF, wF McFarlane, B. (1988) - *The science of hurdling*. Ottawa, ONT: The Canadian Track and Field Association. p. 25, 27.
mSF, wSF Lyle, B. (1983) *Miscellaneous coaching notes*
wSF, wH Knoke, G. (1984). *The hurdles. Athletics Coach*, 22(2), p9.
- 21-Jun **1983 VIII USSR Spartakiad (Moscow, URS)**
400mH wF (fesenko) Breizer, V. (1985). *On the track with Ekaterina Fesenko*. Soviet Sports Review, 20(2), p77.
- 8-Jun **1983 Olympischen Tag (East Berlin, GDR)**
100m mF (schröder), wF Bauersfeld, K.-H. (1992). *Grundlagen der leichtathletik: das standerwerk für ausbildung und praxis*. Berlin; Sportverlag. p112. (in German)
(gohr) Sportverlag. p112. (in German)
wF (koch) Tepper, E. (1989). *Zum entwicklungsstand und zum trainingssyste des ddr-frauenkurzsprints*. *Leichtathletik*, 40(21), p658. (in German)
wF (gladisch) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
100mH wF (jahn) Graubner, R. (2008) Retrieved from <http://www.fgs.uni-halle.de> (in German)
- 21-Aug **1982 East German Spitzenklasse (Cottbus, GDR)**
100m mF (emmelmann) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
wF (gladisch) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 9-Jul **1982 GDR vs. USA (Karl-Marx-Stadt, GDR)**
100m mF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 1-Jul **1982 East German National Championships (Dresden, GDR)**
100m wF (wöckel) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 9-Sep **1982 European Championships (Athens, GRE)**
200m mF (prenzler), wF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
(smallwood) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
400m mF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
wF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
100mH wF (kalek) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
110mH mF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
400mH mF, wF Behm, J.-J. (1995). *La tactique du 400 haies*. *Revue de l'AEFA*, pp.41-44. (in French)
mSF, mH, wSF (1982). *XIII championnats d'Europe d'Atletisma, Athens 1982*. *Revue de l'AEFA*, (80), p24, 40. (in French)
- 22-Aug **1982 ASV Weltklasse (Köln, FRG)**
100mH wF (kalek) Ballreich, R. & Kuhlow, A. (1986). *Biomechanik der sprintarten: Band 1: Biomechanik der leichtathletik*. Stuttgart, FRG: Ferdinand Enke Verlag. p. 19. (in German)
- 18-Aug **1982 Weltklasse (Zürich, SUI)**
400m wF (kratochvilová) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)
- 10-Jul **1982 GDR vs. USA (Karl-Marx-Stadt, GDR)**
200m mF, wF (walther) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxis Leistungssport*, 23(8), (in German)

- 400m wF (koch) Schäfer, W. (1989) Zu strukturmerkmalen der wettkamfleistung un den entsprechenden trainingshalten in der leichtathletischen disziplin 400m. {Unpublished doctoral dissertation}. Martin Luther Universität Halle-Wittenberg. p. 79. (in German)
- 400mH mF (ackermann) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)
- 20-Jun **1982 TAC National Championships (Knoxville, TN)**
- 6-Sep 400mH mF Mann, R. (1987) The elite athlete program biomechanical analysis of the long hurdles: TAC championship meet
- 1981 IAAF World Cup (Rome, ITA)**
- 200m mF (lattany) Butler, M. (2010). 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010. Monaco, MON: IAAF. p25.
- wF (ashford) Veney - 200m women from PJ
- 400m mF (wiley) Butler, M. (2010). 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010. Monaco, MON: IAAF. p27.
- wF (kratochvilova) Quercetani, R.L. (2005) A world history of the one-lap race: The killer sprint, 400m and 4x 400m relay, men and women, 1850-2004. Rome, ITA: SEP. p. 147.
- 26-Aug **1981 International Abendsportfest (Koblenz, FRG)**
- 110mH mF (nehemiah) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)
- 21-Aug **1981 ISTAF (West Berlin, FRG)**
- 400mH mF (moses) Behm, J.-J. (1988). 45-39, Revue de l'AEFA. (107). P19. (in French)
- 19-Aug **1981 Weltklasse (Zurich, SUI)**
- 400mH mF (moses) Behm, J.-J. (1988). 45-39, Revue de l'AEFA. (107). P19. (in French)
- 10-Jul **1981 USSR vs. USA (Leningrad, URS)**
- 100mH wF Chanon, R. (1987). Analyse comparee des caracteristiques des courses de 100m haies et 110m haies. Revue de l'AEFA, (100), p56. (in French)
- 110mH mF Chanon, R. (1987). Analyse comparee des caracteristiques des courses de 100m haies et 110m haies. Revue de l'AEFA, (100), p53. (in French)
- 26-Jun **1981 USSR vs. GDR (Tbilisi, URS)**
- 100mH wF Chanon, R. (1987). Analyse comparee des caracteristiques des courses de 100m haies et 110m haies. Revue de l'AEFA, (100), p56. (in French)
- 110mH mF Chanon, R. (1987). Analyse comparee des caracteristiques des courses de 100m haies et 110m haies. Revue de l'AEFA, (100), p53. (in French)
- 400mH mF (beck) Breizer, V. (1982) In the distance: Volker Beck. Legkaya Atletika, (9). p. (in Russian)
- 13-Jun **?????81**
- 100m wF (auerswald) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), p97. (in German)
- 30-Jul **1980 Olympic Games (Moscow, URS)**
- 100m wF (kondratyeva) Butler, M. (2016). IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016. Monaco, MON, IAAF Comuncations Department. p226.
- 200m wF Veney - 200m women from PJ
- 400m mF (markin) Sultanov, N. (1982). Probleme der vorbereitung für den 400m-lauf. Leichtathletik Magazin, 2(6), p26. (in German)
- mF (brijdenback, jenkins) Dick, F. (1981). Technical olympic report, moscow 1980 (sprint-hurdles-relays). Track & Field Quarterly Review, 81(2), p.5.
- mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p85, 233.
- 100mH wF (kornisova) McFarlane, B. (1988) - The science of hurdling. Ottawa, ONT: The Canadian Track and Field Associaiton. p. 15.
- 400mH mF (beck) Lamare, D. (1980). Resultats complets et commentaires- Moscow 1980. Revue de l'AEFA, (68), p33. (in French)
- mF (arkhipenko) Behm, J.-J. (1999). - Les chiffres: Les podiums de tous les championnats et les worlds records depuis le synthétique: en 68: Hommes - en 78: Femmes. Revue de l'AEFA, p50. (in French)
- 27-Jun **1980 USA Olympic Trials (Eugene, OR)**
- 400m mF, wF Track Newsletter (1980) - US olympic trials. Track Newsletter 25(13). p. 89, 92.
- 9-Jul **1980 East German Olympic Test Meeting (East Berlin, GDR)**
- 100m wF (wöckel) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), p97. (in German)
- 3-Jul **1980 Mario Lanzi Memorial (Milan, ITA)**
- 400mH mF (moses) Behm, J.-J. (1995). La tactique du 400 haies. Revue de l'AEFA, pp.41-44. (in French)
- 28-May **1980 Olympischen Tag (East Berlin, GDR)**
- 100m mF (emmelmann) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), p99. (in German)
- 17-May **1980 East German Spitzsenklasse (Jena, GDR)**
- 100m mF (schröder) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), p99. (in German)
- 400mH wF (roßley) Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)
- 10-May **1980 East German Olympic Qualifier (Potsdam, GDR)**
- 100m mF Heß, W.-D., Müller, H., & Tepper, E. (1985). Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84. Theorie und Praxiz Leistungssport, 23(8), (in German)
- 14-Jun **1980 Balkan Games (Sofia, BUL)**
- 400m wF (damyanova) Bondarchuk, A. (2007) Transfer of training in sports. Michigan: Ultimate Athlete Concepts. p. 31.
- 12-Sep **1979 Universiade (Mexico City, MEX) (Altitude)**

- 200m mF (mennea) Vittori, C. (2003). *L'allenamento delle specialità di corsa veloce per gli atleti d'élite*. Roma, ITA: FIDAL, p77. (in Italian)
- 24-Aug **1979 World Cup (Montreal, CAN)**
200m wF Tabatshnik, B., Maslakova, L., & Ozolin, E. (1986). *Sprinting: Versatility or specialization?* *Modern Athlete & Coach*, 24(3), p6.
- 4-Aug **1979 European Cup Final (Torino, ITA)**
400m wF (koch) Hymans, R. & Matrahazi, I. (Eds.). (2015) *Progression of IAAF world records*. Monaco, MON: IAAF. p 262
- 29-Jul **1979 East German Athletics Sportfest (Potsdam, GDR)**
400m wF (koch) Khomenkov, L.S. (Ed.) (1982) *A textbook for a track and field coach*. Physical Education and Sports Publishers. p. 144. (in Russian)
- 28-Jul **1979 AAA Women's National Championships (London, GBR)**
400mH wF (warden) Warden (1989) - *sprinting and hurdling*
- 25-Jul **1979 VII USSR Spartakiade (Moscow, URS)**
100mH wF Balachničiv, V.V. (1981). *Die Periodisierung und Zyklisierung des Trainings 1978/79 von Hürdenläuferinnen der Spitzenklasse der UdSSR*. *Theorie und Praxis Leistungssport*, 19(11), p44. (in German)
400mH wF (stepanova) Stepanova, M. (1996) *My School*. *Legkaya Atletika*, (1). p. 12. (in Russian)
- 13-Jul **1979 Pan-Am Games (San Juan, PUR)**
100mH wF, wSF Lyle, B. (1979). *Coaching observations from 1979 Pan-American Games Athletics*.
- 27-May **1979 East German Club Cup (Karl-Marx-Stadt, GDR)**
200m wF (koch) Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84*. *Theorie und Praxis Leistungssport*, 23(8), p98. (in German)
- 1-Sep **1978 European Championships (Prague, TCH)**
200m mF, mSF, mH, wF Lamare, D. (1978). *Championnats d'Europa 1978*. *Revue de l'AEFA*, (60), p6, 18. (in French)
400m mF, mSF, mH, wF Lamare, D. (1978). *Championnats d'Europa 1978*. *Revue de l'AEFA*, (60), p7, 18. (in French)
100mH wF Lamare, D. (1978). *Championnats d'Europa 1978*. *Revue de l'AEFA*, (60), p18. (in French)
400mH mF, mSF Lamare, D. (1978). *Championnats d'Europa 1978*. *Revue de l'AEFA*, (60), p9, 19. (in French)
wF Breiser V., & Korchemny, R. (1990). *Tendencies in the development of women for 400m races with hurdles*. *Athletics Science Bulletin*, 2(8),
wF Behm, J.-J. (1988). 45-39, *Revue de l'AEFA*. (107). P19. (in French)
wH (sutherland) McFarlane, B. (1981). *Understanding the 400m hurdles*. In Jarver, J. (ed) *The hurdles: Contemporary theory, technique and training* (p98). Los Altos, CA: Track and Field News
- 4-Sep **1977 IAAF World Cup (Düsseldorf, FRG)**
200m mF (ray) Butler, M. (2010). *1st/IAAF VTB bank continental cup: IAAF statistics handbook - split 2010*. Monaco, MON: IAAF. p25.
400m mF (juantorena) Butler, M. (2010). *1st/IAAF VTB bank continental cup: IAAF statistics handbook - split 2010*. Monaco, MON: IAAF. p26.
- 24-Aug **1977 ??? (Zürich, SUI)**
200m mF (Quarrie) Breizer, & Liu B. (1985). *Sprint time structure*. p15. (in Chinese)
- 13-Aug **1977 European Cup (Helsinki, FIN)**
400mH wF (roßley) McFarlane, B. (1979). *Le 400 m haies féminin*. *Amicale des Entraîneurs Francias d'Athlétisme*, (63), p54. (in French)
- 1-Jul **1977 East German National Championships (Dresden, GDR)**
100m mF, wF Heß, W.-D., Müller, H., & Tepper, E. (1985). *Entwicklungsaspekte der leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84*. *Theorie und Praxis Leistungssport*, 23(8), (in German)
- 25-Jun **1977 GDR vs. USSR vs. Poland (Karl-Marx-Stadt, GDR)**
100m mF (kuback), wF Heß, W.-D. (1978). *Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazklus 1973/76*. *Theorie und Praxis Leistungssport*, 16(1), p24, 27. (in German)
(hamann)
- 15-Jun **1977 Olympischer Tag (East Berlin, GDR)**
100M mF (ray) Heß, W.-D. (1978). *Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazklus 1973/76*. *Theorie und Praxis Leistungssport*, 16(1), p24. (in German)
- 26-Jul **1976 Olympic Games (Montreal, CAN)**
100m mf (zheng) Feng D. (1986). *Zheng Chen, the creator of the Asian men's 100-meter running record, analysis of the speed, pace, step frequency and amplitude of the 100-meter run*. *Sichuan Journal of Physical Education*. p. 59. (in Chinese)
- 200m mF (quarrie), wSF Lamare, D. (1976). *Les jeux de la XXI olympia, Montreal 1976*. *Revue de l'AEFA*, (52), p33, 45. (in French)
mF (evans), wF, Breizer, V. (1984) *Sprint Competition Analyiss*. *Legkaya Atletika*. Retrieved from
wSF http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)
wF Butler, M. (2016). *IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016*. IAAF Communications Department, p230.
- 400m mF, mSF, mQF, wF, Lamare, D. (1976). *Les jeux de la XXI olympia, Montreal 1976*. *Revue de l'AEFA*, (52), p34, 45-46. (In French)
wSF
mF, wF Butler, M. (2016). *IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016*. IAAF Communications Department, p84, 233.
- 100mH wF Ilyin, I. & Emirova, G. (1979). *Successes of women hurdlers*. *Soviet Sports Review*, 14(4), p178.
- 110mH mF Ewen, S. (1977). *Rapport sur les courses de haies aux Jeux olympiques de Montreal*. *Amicale des Entraîneurs Francais d'Athlétisme*, (55), p46. (in French)
- mF (munkelt) Tepper, E. (1978). *Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der männer und frauen des DVfL der DDR in olympiazklus 1973/76*. *Theorie und Praxis Leistungssport*, 16(1), p41. (in German)
- mH Lamare, D. (1976). *Les jeux de la XXI olympia, Montreal 1976*. *Revue de l'AEFA*, (52), p36-37. (in French)
- 400mH mF (moses) McFarlane, B. (1981). *Understanding the 400m hurdles*. In Jarver, J. (ed) *The hurdles: Contemporary theory, technique and training* (p98). Los Altos, CA: Track and Field News

- mF (shine) *Le Masurier, J. (1977). Die olympischen 400-m-hürdenlauf vom Mexico City, München und Montreal. Die Lehre der Leichtathletik, 28(9), p305. (in German)*
- mF (gavrilenko) *Behm, J.-J. (1995). La tactique du 400 haies. Revue de l'AEFA, p41-44. (in French)*
- mSF *Lamare, D. (1976). Les jeux de la XXI olympia, Montreal 1976. Revue de l'AEFA, (52), p38. (in French)*
- 21-Jun **1976 USA Olympic Trials (Eugene, OR)**
- 200m mF (hampton) *Breizer, V. (1984) Sprint Competition Analyiss. Legkaya Atletika. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)*
- mF (evans, riddick), wF *Hymans, R. (2008) the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 167, 175.*
- 400m mF (Parks), wF *Hymans, R. (2008) the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 167, 175-176.*
- 29-May **1976 East German Olympic Qualifier (Karl-Marx-Stadt, GDR)**
- 100m mF (weise), wF *Heß, W.-D. (1978). Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p24, 27. (in German)*
- 25-Jan **1976 East German National Indoor Championships (East Berlin, GDR)**
- 100m mF (ray) *Tepper, E. (1978). Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der männer und frauen des DVfL der DDR in olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p38.*
- mF (kurrat) *Heß, W.-D. (1978). Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p24. (in German)*
- 26-Aug **1975 International "Prawda" Sportfest (Sotschi, URS)**
- 100mH wF *Artyschenko, A. (1977). Zwischen den hürden geht es um die sekunde, teil 2. Die Lehre der Leichtathletik, 28(14), p488. (in German)*
- 110mH mF, mH *Artyschenko, A. (1977). Zwischen den hürden geht es um die sekunde, teil 1. Die Lehre der Leichtathletik, 28(12), p416. (in German)*
- 26-Aug **1975 Internationale Abendsportfest (Stuttgart, FRG)**
- 200m mF (williams) *Breizer, V. (1984) Sprint Competition Analyiss. Legkaya Atletika. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)*
- 20-Aug **1975 Weltklasse (Zurich, SUI)**
- 200m mF (riddick) *Breizer, V. (1984) Sprint Competition Analyiss. Legkaya Atletika. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)*
- 13-Jul **1975 European Cup - Semi-Final Round (Turin, ITA)**
- 200m mF (mennea) *Dotta, G. (1990). The 200m race- a retrospective view of its development. Athletics Science Bulletin, 2(6), p*
- 28-Jun **1975 West German National Championships (Gelsenkirchen, FRG)**
- 400mH mF *Helbig, A., Spiker, J., & Thul, W. (1975). 400-m-hürdenlauf: Wettkampfbeobachtung und analyse der Endlaufs der deutschen Meisterschaften 1975 Gelsenkirchen. Die Lehre der Leichtathletik, 26(50/51), pp1791-1793. (in German)*
- 11-May **1975 Olympischer Tag (East Berlin, GDR)**
- 100m mF (ray) *Heß, W.-D. (1978). Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p24. (in German)*
- 28-Jul **1974 West German National Championships (Hannover, FRG)**
- 100mH wF *Letzelter, M. (1977). Hurdensprint: Geschwindigkeitsverlauf und spezielle eigenschaften. Berlin, FRG: Verlag Bartels & Wernitz KG. p46. (in German)*
- 22-Jun **1974 Kusocinski Memorial (Warsaw, POL)**
- 400m wF (szewinska) *Quercentani, R.L. (2000). Athletics: A history of modern track and field athletics (1860-2000) Men and Women. Rome, ITA: SEP. p. 377*
- 22-Jul **1973 East German National Championships (Dresden, GDR)**
- 100mH wF (ehrhardt) *Tepper, E. (1978). Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der männer und frauen des DVfL der DDR in olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p50. (in German)*
- 20-Jul **1973 East German Spitzenklasse (Dresden, GDR)**
- 100m wF (stecher) *Tepper, E. (1978). Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der männer und frauen des DVfL der DDR in olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p47. (in German)*
- wF (hamann) *Heß, W.-D. (1978). Die geschwindigkeitsdynamik von sprintern in 100m-lauf (frauen und männer) bei wettkampfläufen im olympiazyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), p27. (in German)*
- 200m wF (stecher) *Breizer, V. (1984) Sprint Competition Analyiss. Legkaya Atletika. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)*
- 28-Jul **1973 DLV-Test (Frankfurt-am-Main, FRG)**
- 400mH wF *Keydel, H. (1973). 400m Hürden test der frauen vom 26. bis 28.7.1973. Die Lehre der Leichtathletik, 24(33), p1280. (in German)*
- 16-Jun **1973 British International Games (Edinburgh, GBR)**
- 400mH wF (sykora) *Ewen, S. (1976). 400m haies feminin. Amicale des Entraîneurs Francis d'Athlisme, 50(1), pp24-25.*
- 1-Sep **1972 Olympic Games (Munich, FRG)**
- 100m mF, wF *Breizer, V. (1984) Sprint Competition Analyiss. Legkaya Atletika. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)*
- mF (borzov) *Moravec, P., & Susanka, P. (1986). Sprints. In Susanka, P., Brüggemann, P., & Tsarouchas, E. (Eds) IAAF biomechanical research - 1st World Junior Championships, Athens 1986. pA8.*
- 200m mF, wF *Gundlach, H., Grundmann, G., Tepper, E., Pöhlitz, L., Jeitner, G., & Meißner, H. (1973). Beobachtungsergebnisse in der leichtathletik. Theorie und Praxis Leistungssport, 11(6/7), p153. (in German)*
- 400m mF (matthews) *Sultanov, N. (1982). Probleme der vorbereitung für den 400m-lauf. Leichtathletik Magazin, 2(6), p26. (in German)*
- mQF (juantorena) *Vazel, P.-J. (2011). Speed reserve in the 400m. Www.uka.org.uk/coaching.*
- wF (zehrt) *Track & Field News (1979) - olympic track & field: complete results*

- mF, wF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p84, 233.
- 100mH wF Kay, D.R. (1972) BAAB Munich Technical Report
- wH Letzelter, M. (1977). Hurdensprint: Geschwindigkeitsverlauf und spezielle eigenschaften. Berlin, FRG: Verlag Bartels & Wernitz KG. p46. (in German)
- 110mH mF Kay, D.R. (1972) BAAB Munich Technical Report
- mF, mH Letzelter, M. (1977). Hurdensprint: Geschwindigkeitsverlauf und spezielle eigenschaften. Berlin, FRG: Verlag Bartels & Wernitz KG. p32, 46. (in German)
- 400mH mF McFarlane, B. (1981). Understanding the 400m hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p98). Los Altos, CA: Track and Field News
- mF (mann) Le Masurier, J. (1977). Die olympischen 400-m-hürdenlauf vom Mexico City, München und Montreal. Die Lehre der Leichtathletik, 28(9), p305. (in German)
- mF (gavrilenko, zorin) Letzelter, M. (1973). Schrittgestaltung und geschwindigkeitsverlauf beim 400-m-hürdenlauf der olympischen spiele 1972, Teil 1. Die Lehre der Leichtathletik, 24(37), p1424. (in German)
- mSF, mH Schmidt, B., & Sonntag, H. (1973). Vorolympisches training von John Akii-Bua über 400 hürden. Die Lehre der Leichtathletik, 24(14), p488. (in German)
- 21-Jun **1972 West German National Championships (Munich, FRG)**
- 400m mF (honz) Vazel, P.-J. (2015.08.27). Van Niekerk and Merritt were on for the record at 300m. Retrieved from www.track-stats.com
- 9-Jul **1972 USA Olympic Trials (Eugene, OR)**
- 400m mF Hymans, R. (2008) the history of the US olympic trials - track and field. Indianapolis, IN: USA Track & Field. p. 153.
- 400mH mF (1972). Die große olympia-vorschau. Von wettbewerb zu wettbewerb. - Hemery in besserer ausgangsposition als 1968. Leichtathletik, 24(34-35), p1231. (in German)
- 4-Jul **1972 FRA vs. GDR (Colombes, FRA)**
- 400m wF (zehrt) Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 261
- 3-Jun **1972 NCAA Championships (Eugene, OR)**
- 400m mF (smith) Robinson, C.F., Jensen, C.R., James, S.W., Hirschi, W.M. (1974). Modern techniques of track and field. Philadelphia, PA: Lea & Febiger. p66.
- 15-Apr **1972 UCLA Meet of Champions (Westwood, CA)**
- 400m mF (collett) Robinson, C.F., Jensen, C.R., James, S.W., Hirschi, W.M. (1974). Modern techniques of track and field. Philadelphia, PA: Lea & Febiger. p66.
- 13-Aug **1971 European Championships (Helsinki, FIN)**
- 200m mF (borzov) (1971). Walerij Borsow - ein souveräner Europameister. Der Leichtathlet, (in German)
- 400m mF (jenkins) (1971). Walerij Borsow - ein souveräner Europameister. Der Leichtathlet, (in German)
- mF (flasconaro) Quercentani, R.L. (2000). Athletics: A history of modern track and field athletics (1860-2000) Men and Women. Rome, ITA: SEP. p. 207
- 400mH mF Behm, J.-J. (1995). La tactique du 400 haies. Revue de l'AEFA, pp.41-44. (in French)
- 26-Jun **1971 USA National Championships (Eugene, OR) (yards)**
- 400m mF Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 52
- 17-May **1971 West German Athletics - 400m Hurdles Test (Bonn, FRG)**
- 300mH wF Keydel, H. (1971). Die 400m hürden machten das rennen. Leichtathletik, 22(21), p747. (in German)
- 400mH wF Keydel, H. (1971). Die 400m hürden machten das rennen. Leichtathletik, 22(21), p747. (in German)
- 18-Jul **1970 Commonwealth Games (Edinburgh, GBR)**
- 400m wF (neufville) Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 261
- 110mH mF (hemery) Le Masurier, J. (1972). Track speed: Hurdles, sprints, and relays. London: Stanley Paul. p???
- 8-Jul **1970 France vs. USA (Colombes, FRA)**
- 400mH mF (nallet) Behm, J.-J. (1988). 45-39, Revue de l'AEFA. (107). P19. (in French)
- 19-Jul **1970 French National Championships (Colombes, FRA)**
- 400m mF (nallet) Robinson, C.F., Jensen, C.R., James, S.W., Hirschi, W.M. (1974). Modern techniques of track and field. Philadelphia, PA: Lea & Febiger. p66.
- 18-Sep **1969 European Championships (Athens, GRE)**
- 200m wH (samotjosova) (1964). Einschätzung der einzelnen leichtathletischen disziplinen. Theorie und Praxis Leistungssport, p131. (in German)
- 21-Jun **1969 NCAA Championships (Knoxville, TN)**
- 400m mF (mills) Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 52
- 14-Oct **1968 Olympic Games (Mexico City, MEX)**
- 100m mF (hines) Tepper, E. (1978). Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der männer und frauen des DVfL der DDR in olympiazzyklus 1973/76. Theorie und Praxis Leistungssport, 16(1), (in German)
- 200m mF (smith) Брейзер (1984) - соревновательная деятельность спринтеров (in Russian). ?????
- mF Hymans, R., & Matrahazi, I. (2015). Progression of IAAF world records: 2015 Edition. Monaco, MON: Multiprint. p44.
- 400m mF (Evans) Track & Field News (1979) - olympic track & field: complete results
- mF Butler, M. (2016). IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016. IAAF Communications Department, p83.
- 400mH mF Dessons (1982) Traite d'athletisme - volume 1: les courses. Paris: Editions Vigot. p. 303 (in French)
- mF McFarlane, B. (1981). Understanding the 400m hurdles. In Jarver, J. (ed) The hurdles: Contemporary theory, technique and training (p98). Los Altos, CA: Track and Field News
- mF Le Masurier, J. (1972). Track speed: Hurdles, sprints, and relays. London: Stanley Paul. p???
- mSF, mH Jonath, U. (1969). Wie gerhard hennig trainiert. Die Lehre der Leichtathletik, 20(9), p302. (in German)
- 12-Sep **1968 USA Olympic Trials (Echo Summit, CA) (Altitude)**

- 200m mF (carlos) Breizer, V. (1984) *Sprint competition analysis. Legkaya Atletika*. Retrieved from http://www.cnopm.ru/athletics/training/1984/november/competitive_activity_sprinters (in Russian)
- 400m mF Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 139.
- 31-Aug **1968 Pre-Olympic Test (Echo Summit, CA) (Altitude)**
400m mF (matthews) Hymans, R. & Matrahazi, I. (Eds.). (2015) *Progression of IAAF world records*. Monaco, MON: IAAF. p 51
- 25-Aug **1968 USA Olympic Trials (Walnut, CA)**
400m wF Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 149.
- 2-Oct **1967 ??? (Leninakan, URS) (Altitude)**
400mH mF (skomorokhov) Jonath, U. (1969). *Wie gerhard hennige trainiert. Die Lehre der Leichtathletik*, 20(9), p302. (in German)
- 20-May **1967 San Jose State Invitational (San Jose, CA)**
400m mF Drake, D. (1967). *Der schnellste sprint der geschichte, Leichtathletik*, 18(22), 550 (in German)
- 19-Sep **1964 Olympic Games (Tokyo, JPN)**
400m mF (larrabee) Sultanov, N. (1982). *Probleme der vorbereitung für den 400m-lauf. Leichtathletik Magazin*, 2(6), p26. (in German)
- mF Butler, M. (2016). *IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016*. IAAF Communications Department, p83.
- 80mH wF, wSF Breitschaft, J. (1965). *Die leichtathletik wettkämpfe der XVIII Olympischen Sommerspiele 1964 in Tokio - 80m hürdenlauf. Theorie und Praxis Leistungssport*, 3(7/8), p126. (in German)
- 400mH mF Breitschaft, J. (1965). *Die leichtathletik wettkämpfe der XVIII Olympischen Sommerspiele 1964 in Tokio - 400m hürdenlauf. Theorie und Praxis Leistungssport*, 3(7/8), p112. (in German)
- 12-Sep **1964 USA Olympic Trials (Los Angeles, CA)**
400m mF (larrabee) ????
- 13-Oct **1963 International Sportweek (Tokyo, JPN)**
200m wH (popkova) (1964) *Einschätzung der einzelnen leichtathletischen disziplinen. Theorie und Praxis Leistungssport*. p. 130 (in German)
- 25-May **1963 Western Athletic Conference Championships (Tempe, AZ)**
400m mF (plummer) Drake, D. (1967). *Der schnellste sprint der geschichte, Leichtathletik*, 18(22), 550 (in German)
- 12-Sep **1962 European Championships (Belgrad, YUG)**
400mH mF (morale) Nett, T. (1964) - *Training des leichtathleten: Hürdenlauf, sprung, wurf, mehrkampf*. Berlin, FRG: Verlag Bartels & Wernitz KG. p139 (in German)
- 15-Oct **1961 International Fall Meeting (Rome, ITA)**
400mH mF (morale) Nett, T. (1964) - *Training des leichtathleten: Hürdenlauf, sprung, wurf, mehrkampf*. Berlin, FRG: Verlag Bartels & Wernitz KG. p139 (in German)
- 1-Sep **1961 Universiade (Sofia, BUL)**
400mH mF (morale) Nett, T. (1964) - *Training des leichtathleten: Hürdenlauf, sprung, wurf, mehrkampf*. Berlin, FRG: Verlag Bartels & Wernitz KG. p139 (in German)
- mF (chevychalov) Bartusek, B. (1969). *400-meter training and technique. Track Technique*, (38), 1213.
- 2-Sep **1960 Olympic Games (Rome, ITA)**
400m mF Khomenkov, L.S. (Ed.) (1982) *A textbook for a track and field coach. Physical Education and Sports Publishers*. p. 144. (in Russian)
- mF (kinder, young) Martini, M. (2010). *Ricordi romani (1) - analisi della distribuzione dello sforzo di Otis Davis, che mezzo secolo fa vinse la medaglia d'oro ai giochi Olimpici di Roma nel 400 metri piani con il nuovo primato del mondo di 44.9. Atleticastudi*, (3), p64. (in Italian)
- mSF (davis) Quercentani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 142
- 400mH mF (davis) Nett, T. (1964) - *Training des leichtathleten: Hürdenlauf, sprung, wurf, mehrkampf*. Berlin, FRG: Verlag Bartels & Wernitz KG. p139 (in German)
- mF, mSF Ulrich, J. (1960) *Der 400m-hürdenlauf in Rom (200m times). Die Lehre der Leichtathletik*. 41, p. 1032 (in German)
- 24-Jul **1960 ??? (Berlin, FRG)**
400m mF (kaufman) Quercentani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 141
- 19-Sep **1959 ??? (Köln, FRG) (500m track)**
400m mF (kaufman) Quercentani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 141
- 18-Apr **1959 San Jose University Meeting (San Jose, CA)**
100m mF (norton) Hymans, R., & Matrahazi, I. (2015). *Progression of IAAF world records: 2015 Edition*. Monaco, MON: Multiprint. p28.
- 21-Aug **1958 European Championships (Stockholm, SWE)**
400m mF (1959). *Der 400-m-hürdenlauf in stockholm. Leichtathletik*, 59(10), 229-230. (in German)
- 14-Jun **1958 NCAA Championships (Berkeley, CA) (yards)**
400m mF (davis) *Track & Field News* (1963)
- 24-May **1958 Big 10 Championships (Lafayette, LA) (yards)**
400m mF (davis) Hymans, R. & Matrahazi, I. (Eds.). (2015) *Progression of IAAF world records*. Monaco, MON: IAAF. p 51
- 29-Nov **1956 Olympic Games (Melbourne, AUS)**
400m mF Butler, M. (2016). *IAAF statistics handbook- Special edition: Games of the XXXI Olympiad- Rio 2016*. IAAF Communications Department, p83.
- 400mH mF (davis, southern) Quercentani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 168
- 30-Jun **1956 USA Olympic Trials (Los Angeles, CA)**

400m mF

Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 107.

- 26-May **1956 California Relays (Modesto, CA)**
400m mF (lea) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 140
- 25-Jun **1955 Znamenskiy Memorial (Moscow, URS)**
400m mF (ignatyev) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 139
- 18-Mar **1955 Pan American Games (Mexico City, MEX)**
400m mF (jones) Drake, D. (1967). *Der schnellste sprint der geschichte, Leichtathletik*, 18(22), 550 (in German)
- 20-Sep **1953 Hungary vs. USSR (Budapest, HUN)**
400mH mF (lituyev) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 166
- 21-Jul **1952 Olympic Games (Helsinki, FIN)**
400m mF Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 139
400mH mF (moore) Mitchell, L. (1967) *Future of the one-lap hurdles*. Track Technique p. 892.
- 22-Aug **1950 International Athletics Meeting (Eskilstuna, SWE)**
400m mF (rhoden) Drake, D. (1967). *Der schnellste sprint der geschichte, Leichtathletik*, 18(22), 550 (in German)
- 5-Aug **1948 Olympic Games (London, GBR)**
400m mF Parienté, R. (1978). 400 mètres: Carrefour des vertus. In Parienté, R., *la fabuleuse histoire de l'athlétisme* (p. 127). Paris: Edité par Editions O.D.I.L.E (in Spanish)
- 2-Jul **1948 AAU Championships (Milwaukee, WI)**
400m mH (mckenley) Drake, D. (1967). *Der schnellste sprint der geschichte, Leichtathletik*, 18(22), 550 (in German)
- 6-Jun **1948 Pacific Association Championships (Berkeley, CA)**
400m mF (mckenley) Track & Field News (1963)
- 23-Aug **1947 ??? (Long Branch, NJ) (440y straightaway)**
400m mF (mckenley) Parienté, R. (1978). 400 mètres: Carrefour des vertus. In Parienté, R., *la fabuleuse histoire de l'athlétisme* (p. 127). Paris: Edité par Editions O.D.I.L.E (in Spanish)
- 28-Jun **1947 PCC vs Big 10 (Berkley, CA) (yards)**
400m mF (mckenley) Hymans, R. & Matrahazi, I. (Eds.). (2015). *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 21-Jun **1947 NCAA Championships (Salt Lake City, UT) (Altitude)**
400m mF (mckenley) Hymans, R. & Matrahazi, I. (Eds.). (2015). *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 1-Jun **1946 Big 10 Championships (Champaign, IL)**
400m mF (mckenley) Hymans, R. & Matrahazi, I. (Eds.). (2015). *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 20-Jun **1943 ??? (New York, NY) (220y Straightaway)**
200m mf (davis) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 127
- 29-Jun **1941 AAU Championship (Philadelphia, PA)**
400m mF (klemmer) Hymans, R. & Matrahazi, I. (Eds.). (2015.) *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 6-Jun **1941 Compton Invitational (Compton, CA)**
100m mf (davis) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 127
- 31-May **1941 Pacific Coast Conference Championship (Berkley, CA)**
400m mF (klemmer) Hymans, R. & Matrahazi, I. (Eds.). (2015). *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 17-May **1941 ??? (Fresno, CA) (220y Straightaway)**
200m mf (davis) Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 127
- 12-Aug **1939 Internationale Leichtathletik Wettkampf (Frankfurt-am-Main, GER) (500m track)**
400m mF Quercetani, R.L. (2005) *A world history of the one-lap race: The killer sprint, 400m and 4x 400m relay, men and women, 1850-2004*. Rome, ITA: SEP. p. 52.
- 16-Jul **1939 Italy vs. Germany (Milan, ITA) (500m track)**
400m mF Quercetani, R.L. (2000). *Athletics: A history of modern track and field athletics (1860-2000) Men and Women*. Rome, ITA: SEP. p. 82
- 7-Aug **1936 Olympic Games (Berlin, GER)**
400m mF Butler, M. (2016). *IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*. Monaco, MON, IAAF Communications Department. p82.
- 19-Jun **1936 NCAA Championships (Chicago, IL)**
400m mH (williams) Quercetani, R.L. (2005) *A world history of the one-lap race: The killer sprint, 400m and 4x 400m relay, men and women, 1850-2004*. Rome, ITA: SEP. p. 45.
- 5-Aug **1932 Olympic Games (Los Angeles, CA)**
400m mF Quercetani, R.L. (2005) *A world history of the one-lap race: The killer sprint, 400m and 4x 400m relay, men and women, 1850-2004*. Rome, ITA: SEP. p. 43.
- 16-Jul **1932 USA Olympic Trials (Palo Alto, CA)**
400m mF (eastman) Hymans, R. (2008) *the history of the US olympic trials - track and field*. Indianapolis, IN: USA Track & Field. p. 71-72.
- 26-Mar **1932 Los Angeles AC vs. Stanford University (Stanford, CA) (yards)**
400m mF (eastman) Hymans, R. & Matrahazi, I. (Eds.). (2015) *Progression of IAAF world records*. Monaco, MON: IAAF. p 50
- 12-May **1928 Pacific AAU Championships (Palo Alto, CA)**
400m mF (spencer) Parienté, R. (1978). 400 mètres: Carrefour des vertus. In Parienté, R., *la fabuleuse histoire de l'athlétisme* (p. 120). Paris: Edité par Editions O.D.I.L.E (in Spanish)
- 11-Jul **1924 Olympic Games (Paris, FRA)**
400m mF (liddell) Parienté, R. (1978). 400 mètres: Carrefour des vertus. In Parienté, R., *la fabuleuse histoire de l'athlétisme* (p. 120). Paris: Edité par Editions O.D.I.L.E (in Spanish)

- 10-Apr **1900 Exhibition Handicap (Guttenberg, NY) (440y Straightaway)**
400m mF (long) *Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 48*
- 9-Jul **1890 ??? Beacon Park (Boston, MA) (440y Straightaway)**
400m mF (downs) *Quercentani, R.L. (2000). Athletics: A history of modern track and field athletics (1860-2000) Men and Women. Rome, ITA: SEP. p. 24.*
- 1-Jul **1886 ??? Beacon Park (Boston, MA) (440y Straightaway)**
400m mF (baker) *Quercentani, R.L. (2000). Athletics: A history of modern track and field athletics (1860-2000) Men and Women. Rome, ITA: SEP. p. 24.*
- 22-Oct **1881 Time Trial in Solo Effort (New York, NY) (640y Circuit)**
400m mF (myers) *Hymans, R. & Matrahazi, I. (Eds.). (2015) Progression of IAAF world records. Monaco, MON: IAAF. p 48*

