

Curriculum Vitae

John W. Wannop

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NATIONALITY: Canadian

DATE OF BIRTH: June 7, 1983

EDUCATION/EXPERIENCE

- 2017- Adjunct Assistant Professor
- 2012- Consultant
Sport Insight Inc.
- 2012-2016 Post-Doctoral Fellow
University of Calgary, Calgary, Canada
Specialization: Biomechanics Supervisor: Darren Stefanyszyn
- 2007-2012 Doctor of Philosophy (Ph.D.) in Kinesiology
University of Calgary, Calgary, Canada
Specialization: Biomechanics Supervisor: Darren Stefanyszyn
Thesis: Footwear Traction and Lower Extremity Non-Contact Injury
- 2001-2005 Bachelor of Kinesiology (B.Kin) in Biomechanics – With Distinction
University of Calgary, Calgary, Canada

PROFESSIONAL MEMBERSHIPS

- International Society of Biomechanics
Footwear Biomechanics Group - International Society of Biomechanics Technical Group
American College of Sports Medicine

PROFESSIONAL EXPERIENCE

- 2013 Guest Lecturer – Kinesiology 213: Intro to Research in Kinesiology (100 students)
- 2013 Guest Lecturer – Kinesiology 463: Advanced Biomechanics (10 students)
- 2012 Guest Lecturer – Kinesiology 463: Advanced Biomechanics (5 students)
- 2012 Guest Lecturer – Kinesiology 263: Introductory Biomechanics (160 students)
- 2007 - 2012 Teaching Assistant – Kinesiology 263: Introductory Biomechanics
- 2011 Executive Vice President (Ph. D.) Kinesiology Graduate Student Association
- 2011 Guest Lecturer – Kinesiology 263: Introductory Biomechanics (170 students)
- 2011 Guest Lecturer – Kinesiology 463: Advanced Biomechanics (8 students)

- 2010 Guest Lecturer – Kinesiology 263: Introductory Biomechanics (180 students)
- 2009 Guest Lecturer – Kinesiology 263: Introductory Biomechanics (180 students)
- 2005 Research Assistant – Human Performance Laboratory, University of Calgary, Canada

SERVICE EXPERIENCE

- 2013-2019 **Informatics Officer**
Footwear Biomechanics Group- International Society of Biomechanics Technical Group
- 2019 **Coordinator**
2019 Footwear Biomechanics Symposium – Kananaskis, Alberta, Canada
- 2019- **Awards Chair**
Footwear Biomechanics Group- International Society of Biomechanics Technical Group

REFEREED PUBLICATIONS

1. Esposito, M., **Wannop, J.W.**, Thompsett, B., Miles, H., Stefanyshyn, D. (2023). Effects of increased forefoot bending stiffness on performance and metatarsophalangeal joint biomechanics in soccer. *Sports Biomechanics*. Submitted.
2. Trama, R. **Wannop, J.W.**, Smith, E., Stefanyshyn, D. (2023). The influence of midsole horizontal and vertical deformation on soft tissue vibrations and bone acceleration during running. *Journal of Biomechanics*. Submitted.
3. **Wannop, J.W.**, Schrier, N., Wolter, M-L., Madden, R., Barrons, Z., Stefanyshyn, D.J. (2023). Changes in joint power and energetics during a sport-specific jumping fatigue protocol. *Applied Sciences* 13, 1231. <https://doi.org/10.3390/app13031231>
4. Barrons, Z., Stefanyshyn, D.J., **Wannop, J.W.** (2023). The impact of gender on the traction requirements of basketball related movements. *Footwear Science*. In-press. <https://doi.org/10.1080/19424280.2022.2141899>
5. Singh, P., Esposito, M., Barrons, Z., Clermont, C., **Wannop, J.W.**, Stefanyshyn, D. (2022). Utilizing data from a local positioning system as input into a neural network to determine stride length. *Sports Engineering*. *Sports Engineering*, 25(1), 1-9. <https://doi.org/10.1007/s12283-022-00383-4>
6. Clermont, C., Barrons, Z., **Wannop, J.W.**, Esposito, M., Stefanyshyn, D. (2022). Influence of midsole shear on running smoothness and performance with a 3D printed midsole. *Sports Biomechanics*. Published Ahead of Print. <https://doi.org/10.1080/14763141.2022.2029936>
7. Thomson, A., Holmes, W., Hodge, E., Paul, D., Bleakley, C., **Wannop, J.W.** (2022). Rotational traction of soccer football boots on hybrid reinforced turf system and natural grass. *Footwear Science*, 14(1), 58-69. <https://doi.org/10.1080/19424280.2022.2038690>
8. Schrier, N., **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2022). Influence of compliance and aging of artificial turf surfaces on lower extremity joint loading. *Biomechanics*, 2(1), 66-75. <https://doi.org/10.3390/biomechanics2010007>

9. Esposito, M, **Wannop, J.W.**, & Stefanyshyn, D.J. (2022). Effects of midsole cushioning stiffness on Achilles tendon stretch during running. *Scientific Reports*, 12, 4193. <https://doi.org/10.1038/s41598-022-07719-x>
10. Thomson, A., **Wannop, J.W.**, Okholm, K. (2021). Hey Coach/Doctor/Physio/Podiatrist/Dad/Mum: What football boot is best for me? *Apetar Sports Medicine Journal*, 75, 268-272.
11. Firminger, CR., Haider, IT., Bruce, OL., **Wannop, J.W.**, Stefanyshyn, D.J., & Edwards, W.B. (2021). Are subject-specific models necessary to predict patellar tendon fatigue life? A finite element modelling study. *Computer Methods in Biomechanics and Biomedical Engineering*, 25(7), 729-739. <https://doi.org/10.1080/10255842.2021.1975683>
12. Singh, P., Esposito, M., Barrons, Z., Clermont, C., **Wannop, J.**, & Stefanyshyn, D. (2021). Measuring gait velocity and stride length with an ultrawide bandwidth local positioning system and an inertial measurement unit. *Sensors*, 21(9), 2896.
13. **Wannop, J.**, Kowalchuk, S., Esposito, M., & Stefanyshyn, D. (2020). Influence of Artificial Turf Surface Stiffness on Athlete Performance. *Life*, 10(12), 340.
14. **Wannop, J.W.**, Schrier, N., Worobets, J.T., Stefanyshyn, D.J. (2020). Influence of forefoot bending stiffness on American football performance and metatarsophalangeal joint bending angle. *Journal of Sports Science*. 1-11.
15. Bruce, O.L., Firminger, C.R., **Wannop, J.W.**, Stefanyshyn, D.J., Edwards, W.B. (2019). Effects of basketball court construction and shoe stiffness on countermovement jump landings. *Footwear Science*, 11(3), 171-179.
16. **Wannop, J.W.**, Nigg, S., Edwards, W.B. (2019). From Canmore to Kananaskis: where has the last 20 years in footwear science brought us? *Footwear Science* 11(S1), S1-S2.
17. Firminger, C.R., Bruce, O.L., **Wannop, J.W.**, Stefanyshyn, D.J., Edwards, W.B. (2019). Effect of shoe and surface stiffness on lower limb tendon strain in jumping. *Medicine & Science in Sport & Exercise*, 51(9), 1895-1903.
18. **Wannop, J.W.**, Foreman, T., Madden, R., Stefanyshyn, D.J. (2019). Influence of the composition of artificial turf on rotational traction and athlete biomechanics. *Journal of Sports Science*, 37(16), 1849-1856. <https://doi.org/10.1080/02640414.2019.1598923>
19. **Wannop, J.W.**, Stefanyshyn, D.J., Anderson, R., Coughlin, M., Kent, R. (2019) Development of a footwear sizing system in the National Football League. *Sports Health*, 11(1), 40-46.
20. Lewinson, R.T., Madden, R., Killick, A., **Wannop J.W.**, Wiley, E.P., Lun, V.M.Y., Patel, C., LaMothe, J.M., Stefanyshyn, D.J. (2018). Foot structure and knee joint kinetics during walking with and without wedged footwear insoles. *Journal of Biomechanics*, 73, 192-200.
21. **Wannop, J.W.**, Madden, R.M., & Stefanyshyn, D.J. (2017) The influence of gearing footwear on running biomechanics. *Footwear Science*, 9(2), 111-119.
22. Graf, E.S., **Wannop, J.W.**, Schlarb, H., & Stefanyshyn, D.J. (2017) Effect of Torsional Stiffness on Biomechanical Variables of the Lower Extremity During Running. *Footwear Science*, 9(1), 1-8.
23. **Wannop, J.W.** & Stefanyshyn, D.J. (2016) Editorial: Bending Stiffness: Performance and Injury Effects. *Footwear Science*, 8(2), 49-50.
24. Madden, R.J., Sakaguchi, R., **Wannop, J.W.** & Stefanyshyn, D.J. (2016). Forefoot Bending Stiffness, Running Economy and Kinematics during Overground Running. *Footwear Science*, 8(2), 91-98.

25. Stefanyshyn, D.J. & **Wannop, J.W.** (2016) The Influence of Forefoot Bending Stiffness of Footwear on Athletic Injury and Performance. *Footwear Science* 8(2), 51-63.
26. **Wannop, J.W.** & Stefanyshyn, D.J. (2016) The Effect of Translational and Rotational Footwear Traction on Lower Extremity Joint Loading. *Journal of Sports Science*, 34(7), 613-620.
27. **Wannop, J.W.**, Worobets, J.T., Madden, R., & Stefanyshyn, D.J. (2016) Influence of Compression and Stiffness Apparel on Vertical Jump Performance. *Journal of Strength and Conditioning Research*, 30(4), 1093-1101.
28. Stefanyshyn, D.J. & **Wannop, J.W.** (2015) Biomechanics Research and Sport Equipment Development. *Sports Engineering*, 18(4), 191-202.
29. Worobets, J.T. & **Wannop, J.W.** (2015) The Influence of Shoe Mass, Outsole Traction and Forefoot Bending Stiffness on Athletic Performance. *Sports Biomechanics*, 14(3), 351-360.
30. Worobets, J.T., **Wannop, J.W.**, Tomaras E., & Stefanyshyn, D.J. (2014). Softer and More Resilient Running Shoe Cushioning Properties Enhance Running Economy. *Footwear Science*, 6(3), 147-153.
31. **Wannop, J.W.**, Worobets, J.T., Ruiz, R. & Stefanyshyn, D.J. (2014) Footwear Traction and Three-Dimensional Kinematics of Level, Downhill, Uphill and Cross-Slope Walking. *Gait & Posture*, 40, 118-122.
32. Worobets, J.T., Panizzolo, F., Hung, S., **Wannop, J.W.** & Stefanyshyn, D.J. (2014) Increased Running Shoe Traction Can Enhance Performance. *Research Journal of Textile and Apparel*, 18(2), 17-22.
33. Schrier, N.M., **Wannop, J.W.**, Lewinson, R.T., Worobets, J.T. & Stefanyshyn, D.J. (2014). Shoe-surface interaction affects performance of soccer-related movements. *Footwear Science*, Vol. 6(2), 69-80.
34. **Wannop, J.W.**, Graf, E. & Stefanyshyn, D.J. (2014). The Effect of Lateral Banking on the Kinematics and Kinetics of the Lower Extremity During Lateral Cutting Movements. *Human Movement Science*, Vol. 33, 97-107.
35. **Wannop, J.W.**, Luo, G. & Stefanyshyn, D.J. (2013) Footwear Traction and Lower Extremity Non-Contact Injury. *Medicine & Science in Sports & Exercise*, Vol. 45(11), 2137-2143.
36. **Wannop, J.W.**, Smith, G. & Stefanyshyn, D.J. (2013). Traction of Clogged Golf Footwear. *Footwear Science*, Vol. 5(2), 131-135.
37. **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2012) Normalization of Ground Reaction Forces, Joint Moments and Free Moments in Human Locomotion. *Journal of Applied Biomechanics*, 28, 665-676.
38. Fukuchi, C.A., Worobets, J.T., **Wannop, J.W.** & Stefanyshyn, D.J. (2012). The Influence of Footwear with a Small Integrated Lateral Wedge on Knee Joint Loading During Walking. *Footwear Science*, Vol. 4(3), 207-212.
39. **Wannop, J.W.**, Luo, G., & Stefanyshyn, D.J. (2012) Footwear Traction at Different Areas on Artificial and Natural Grass Fields. *Sports Engineering*, Vol. 15(2), 111-116.
40. **Wannop, J.W.** & Stefanyshyn, D.J. (2012). The Effect of Normal Load, Speed and Moisture on Footwear Traction. *Footwear Science*, Vol. 4(1), 37-43.
41. **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2010). Footwear Traction and Lower Extremity Joint Loading. *American Journal of Sports Medicine*, Vol. 38(6), 1221-1228.

42. **Wannop, J.W.**, Luo, G., & Stefanyshyn D.J. (2009) Wear Influences Footwear Traction Properties In Canadian High School Football. *Footwear Science*, Vol. 1(3), 121-127.

PATENTS

1. Stefanyshyn, D.J., **Wannop, J.W.**, & Madden, R.J. Method and System for Matching Athletes with Equipment.

BOOK CHAPTERS

1. Stefanyshyn, D.J. & **Wannop, J.W.** (2015). Sports Surfaces and Performance. *Science and Engineering of Sports Surfaces*.

NON-REFEREED PUBLICATIONS

1. Lower Extremity Review, January 2016. Footwear, Traction and the Risk of Athletic Injury.
2. New York Times, May 15, 2013. When Athletic Shoes Cause Injury.
3. Men's Health Magazine, December 2010. Nice Move, Slick. pg 44.

REFEREED ABSTRACTS

1. Esposito, M., Barrons, Z., Clermont, C., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). Shoe construction modifications to reduce braking force parameters during running. 27th Annual ECSS Congress, Spain.
2. Singh, P., Esposito, M., Barrons, Z., Clermont, C., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). Utilizing data from a local position system as input into a neural network to determine stride length. 2022 North American Congress on Biomechanics.
3. Clermont, C., Durante, G., Barrons, Z., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). The relationship between foot arch stiffness, midsole bending stiffness and running economy. 2022 American College of Sports Medicine Congress.
4. Clermont C., Barrons, Z., Esposito, M., Culo, M., Dominguez, E., **Wannop, J.W.**, & Stefanyshyn, D.J. (2021). The Influence of Midsole Shear on Running Smoothness. Proceedings of the XV Footwear Biomechanics Symposium.
5. Esposito, M., **Wannop, J.W.**, Stefanyshyn, D. (2021), Effects of midsole cushioning stiffness on Achilles tendon stretch during running. Proceedings of the XV Footwear Biomechanics Symposium.
6. Clermont, C., **Wannop, J.W.**, Normand, A., Emery, C., & Stefanyshyn, D.J. (2020). The use of impact monitoring mouthguards to quantify head impact biomechanics in youth football players. Canadian Society of Biomechanics.
7. Clermont, C., **Wannop, J.W.**, Normand, A., Emery, C., & Stefanyshyn, D.J. (2020). Differences in biomechanics between head impact helmet locations in youth football players. Canadian Society of Biomechanics.

8. **Wannop, J.W.**, Kowalchuk, S., Esposito, M., & Stefanyshyn D.J. (2020). Influence of artificial turf surface stiffness on athletic performance. Canadian Society of Biomechanics.
9. Barrons, Z.B., Ura, D., Bill, K., Cooke, E., **Wannop J.W.**, & Stefanyshyn, D.J. (2019). Required traction during common rugby movements. Proceedings of the XIII Footwear Biomechanics Symposium.
10. Cooke, E.S., **Wannop, J.W.**, Barrons, Z.B., Burkhardt, K., Park, SK., & Stefanyshyn, D.J. (2019). Influence of foot arch properties on running performance. Proceedings of the XIII Footwear Biomechanics Symposium.
11. Esposito, M., **Wannop, J.W.**, & Stefanyshyn, D.J. (2019). Tendon and muscle fascicle length changes during running with compliant and stiff footwear cushioning. Proceedings of the XIII Footwear Biomechanics Symposium.
12. Firminger, C., Bruce, O., **Wannop, J.W.**, Stefanyshyn, D.J., & Edwards, W.B. (2018). Surface construction alters patellar tendon strains in jumping. Proceedings of the 8th World Congress of Biomechanics, Dublin, Ireland.
13. Bruce, O., Firminger, C., **Wannop, J.W.**, Stefanyshyn, D.J., & Edwards, W.B. (2018). Patellar tendon stiffness in male adolescent basketball players. Proceedings of the 8th World Congress of Biomechanics, Dublin, Ireland.
14. **Wannop, J.W.**, Killick, A., Madden, R., & Stefanyshyn D.J. (2017). Influence of the composition of artificial turf on rotational traction and athlete biomechanics. Footwear Science, Vol 9(S1), S40-S42. Proceedings of the XIII Footwear Biomechanics Symposium.
15. **Wannop, J.W.**, Killick, A., Madden, R., Stefanyshyn D.J. (2017). Influence of gearing footwear on performance and biomechanical injury risk. Proceedings of the XXVI Congress of the International Society of Biomechanics.
16. Edwards, W.B., **Wannop, J.W.**, Stefanyshyn, D.J. (2016). Prediction of patellar tendinopathy using Weibull analysis. Proceedings of the XXXX Meeting of the American Society of Biomechanics.
17. **Wannop, J.W.**, Madden, R., Worobets, J.T., & Stefanyshyn, D.J. (2015). Can Compression Aid in Maintaining Jump Performance During a Fatiguing Protocol? Proceedings of the XXV Congress of the International Society of Biomechanics.
18. Madden, R., Schrier, N., Kondro, D., Grover, R., **Wannop, J.W.**, Stefanyshyn, D.J. (2015). The Effects of Altered Forefoot Bending and Torsional Stiffness on the Biomechanics of Curved Running. Proceedings of the XXV Congress of the International Society of Biomechanics.
19. Sakaguchi M., Madden, R., Schrier, N., Koska, D., **Wannop, J.W.**, Stefanyshyn, D.J. (2015). Biomechanical and Gender Differences between Single-legged and Two-legged Running Vertical Jumps. Proceedings of the XXV Congress of the International Society of Biomechanics.
20. Madden, R., Sakaguchi, M., **Wannop, J.W.**, & Stefanyshyn, D.J. (2015). Forefoot Bending Stiffness, Running Economy and Kinematics During Overground Running. Footwear Science, Vol 7(S1), S11-S13. Proceedings of the XII Footwear Biomechanics Symposium.
21. Sakaguchi M., **Wannop, J.W.**, Madden, R., Koska, D., & Stefanyshyn, D.J. (2015). Effects of Shoe Bending Stiffness and Surface Stiffness on lower Extremity Biomechanics During Running. Footwear Science, Vol 7(S1), S4-S6. Proceedings of the XII Footwear Biomechanics Symposium.

22. **Wannop, J.W.**, Schrier, N., Worobets, J.T. & Stefanyshyn, D.J. (2015). Influence of Forefoot Bending Stiffness on American Football Performance. *Footwear Science*, Vol 7(S1), S141-S142. Proceedings of the XII Footwear Biomechanics Symposium.
23. Worobets, J.T., Tomaras, E., **Wannop, J.W.** & Stefanyshyn, D.J. (2013). Running Shoe Cushioning Properties Can Influence Oxygen Consumption. *Footwear Science*, Vol5(S1), S75-76. Proceedings of the Eleventh Footwear Biomechanics Symposium.
24. Schrier, N.M., **Wannop, J.W.**, Worobets, J.T. & Stefanyshyn, D.J. (2013). Effects of Artificial Turf on Performance and Ground Contact Kinetics During a Sprint Acceleration. *Footwear Science*, Vol5(S1), S101-103. Proceedings of the Eleventh Footwear Biomechanics Symposium.
25. **Wannop, J.W.** & Worobets, J.T. (2013). Influence of Basketball Shoe Mass, Traction and Bending Stiffness on Athletic Performance. *Footwear Science*, Vol 5(S1), S98-S100. Proceedings of the Eleventh Footwear Biomechanics Symposium.
26. Schrier, N.M., **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2013). Joint Loading Differences Between Newly Installed and Worn Artificial Turf During a Cutting Movement. Proceedings of the XXIV Congress of the International Society of Biomechanics.
27. **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2013). The Effect of Upper Leg Compression and Hip Joint Stiffness on Sprinting and Jumping Performance. Proceedings of the XXIV Congress of the International Society of Biomechanics.
28. **Wannop, J.W.**, Luo, G., & Stefanyshyn, D.J. (2011). Footwear Traction and Lower Extremity Non-Contact Injury. *Footwear Science*, Vol. 3 (S1), 166-167. Proceedings of the Tenth Footwear Biomechanics Symposium.
29. **Wannop, J.W.**, Luo, G., & Stefanyshyn, D.J. (2011). Effect of Normal Load, Speed and Moisture on Footwear Traction. *Footwear Science*, Vol. 3 (S1), 164-165. Proceedings of the Tenth Footwear Biomechanics Symposium.
30. **Wannop, J.W.**, & Stefanyshyn, D.J. (2011). Effects of Banking on Lower Extremity Kinematics and Kinetics. Proceedings of the XXIII Congress of the International Society of Biomechanics.
31. **Wannop, J.W.**, Luo, G., & Stefanyshyn, D.J. (2011). Footwear Traction at Different Areas on Artificial and Natural Grass Fields. Proceedings of the XXIII Congress of the International Society of Biomechanics.
32. Fukuchi, C., Worobets, J.T., **Wannop, J.W.**, & Stefanyshyn, D.J. (2011). The Influence of Footwear with a Small Integrated Lateral Wedge on Knee Joint Loading During Walking. *Footwear Science*, Vol. 3 (S1), 56-58. Proceedings of the Tenth Footwear Biomechanics Symposium.
33. Worobets, J.T., Panizzolo, F., Hung, S., **Wannop, J.W.**, & Stefanyshyn, D.J. (2011). The Influence of Running Shoe Traction on Performance in a Short Duration Maximal Effort Running Drill. *Footwear Science*, Vol. 3 (S1), 167-168. Proceedings of the Tenth Footwear Biomechanics Symposium.
34. **Wannop, J.W.**, Luo, G., & Stefanyshyn, D.J. (2009). Traction Properties of Footwear in Canadian High School Football. Proceedings of the Ninth Footwear Biomechanics Symposium.

35. **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2009). Footwear Traction and Joint Loading. Proceedings of the International Society of Biomechanics Conference.
36. Worobets, J.T., **Wannop, J.W.**, Luo, G., Stefanyshyn, D.J. (2009). The Influence of Elastic Athletic Apparel on Hip Joint Mechanics and Ground Reaction Impulses during a Sprint Start. Proceedings of the International Society of Biomechanics Conference.

TECHNICAL REPORTS

1. Trama, R., Denis, Y., Vogel, A., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). Using Wearable Sensors to Differentiate Artificial Turf Surfaces. Technical Report for FieldTurf.
2. **Wannop, J.W.**, Fukuchi, C., Stefanyshyn, D.J. (2022). Carbitex AFX Running Biomechanics. Technical Report for Carbitex.
3. **Wannop, J.W.**, Trama, R., Denis, Y., Vogel, A., Stefanyshyn, D.J. (2022). The Influence of Rocker Geometry on Walking Biomechanics. Technical Report for Keen.
4. Trama, R., Gavaille, L., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). The Influence of Midsole Rocker Geometry on Running Performance and Biomechanics. Technical Report for adidas.
5. **Wannop, J.W.**, Smith, E., Esposito, M., Barrons, Z., Gavaille, L., Stefanyshyn, D.J. (2022). Hockey Stick Deformation during Modern Quick Release. Technical Report for Sherwood.
6. **Wannop, J.W.**, Crawford, R., Al-Saket, S., Stefanyshyn, D.J. (2022). Evaluation of Anta ZeroZero Basketball Shoes. Technical Report for Anta.
7. Barrons, Z., Esposito, M., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). Influence of Stack Height on Running Performance and Biomechanics. Technical Report for adidas Innovation.
8. **Wannop, J.W.**, Esposito, M., Stefanyshyn, D.J. (2022). Mechanical Traction of New Infill Blend System: Study 2. Technical Report for FieldTurf.
9. **Wannop, J.W.**, Trama, R., Stefanyshyn, D.J. (2022). The Influence of Shift Footwear on Running Performance and Biomechanics. Technical Report for adidas Future Team.
10. **Wannop, J.W.**, Esposito, M., Stefanyshyn, D.J. (2022). Kinematic and Kinetic Comparison of American Football Cleats. Technical Report for Under Armour.
11. **Wannop, J.W.**, Trama, R., Esposito, M., Stefanyshyn, D.J. (2022). American Football Traction Maps. Technical Report for Under Armour.
12. **Wannop, J.W.**, Trama, R., Stefanyshyn, D.J. (2022). Global Football Traction Maps. Technical Report for Under Armour.
13. **Wannop, J.W.**, Esposito, M., Stefanyshyn, D.J. (2022). Mechanical Traction of New Infill Blend System. Technical Report for FieldTurf.
14. **Wannop, J.W.**, Trama, R., Smith, E., Stefanyshyn, D.J. (2022). 4dFWD Specialization. Technical Report for adidas Innovation.
15. Crawford, R., **Wannop, J.W.**, Stefanyshyn, D.J. (2022). Investigation of adidas Meta Basketball Concept. Technical Report for adidas Athlete Science.
16. **Wannop, J.W.**, Trama, R., Stefanyshyn, D. (2022). Kinematic and Kinetic Comparison of Global Football Cleats. Technical Report for Under Armour.

17. **Wannop, J.W.**, Trama, R., Crawford, R., Barrons, Z., Esposito, M., Stefanyshyn, D.J. (2021). Influence of Prototype Apparel on Muscle Vibrations, Running and Jumping Performance. Technical Report for adidas Future Team.
18. Stefanyshyn, D.J., Esposito, M., **Wannop, J.W.** (2021). Evaluation of X22 Soccer Shoes. Technical Report for adidas Future Team.
19. **Wannop, J.W.**, Smith, E., Stefanyshyn, D.J. (2021). Foot Sensitivity and Insole Selection. Technical Report for Superfeet.
20. **Wannop, J.W.**, Smith, E., Esposito, M., Clermont, C., Stefanyshyn, D.J. (2021). 4D Shear: Phase 3 Influence of Midsole Shear on Peak Braking Forces and Foot Acceleration. Technical Report for adidas Future Team.
21. **Wannop, J.W.**, Esposito, M., Stefanyshyn, D.J. (2021). Mechanical Traction of Fibre Sprays. Technical Report for FieldTurf.
22. **Wannop, J.W.**, Crawford, R., Trauma, R., Barrons, Z., Clermont, C., Stefanyshyn, D.J. (2021). Evaluation of Techfit Prototypes. Technical Report for adidas Future Team.
23. **Wannop, J.W.**, Esposito, M., Stefanyshyn, D.J. (2021). Mechanical Traction of Natural and Wet Artificial Surfaces during Rugby Scrums. Technical Report for FieldTurf.
24. **Wannop, J.W.**, Kowalchuk, S., Smith, E., Stefanyshyn, D.J. (2021). Influence of Turf Fibers on Mechanical Traction of Artificial Turf Surfaces. Technical Report for FieldTurf.
25. **Wannop, J.W.**, Kowalchuk, S., Smith, E., Esposito, M., Stefanyshyn, D. (2021). Mechanical Traction of Artificial Surfaces During Rugby Scrums. Technical Report for FieldTurf.
26. **Wannop, J.W.**, Kowalchuk, S., Smith, E., Culo, M., Stefanyshyn, D. (2021). Synthetic Turf Testing: Phase 2. Technical Report for Biocore.
27. Stefanyshyn, D., **Wannop, J.W.** (2021). Basketball Endurance. Technical Report for adidas Concept Excellence.
28. Barrons, Z., Esposito, M., **Wannop, J.W.**, Stefanyshyn, D. (2021). Mechanical Traction of Football and Soccer Cleats. Technical Report for Under Armour.
29. Barrons, Z., Esposito, M., Smith, E., **Wannop, J.W.**, Stefanyshyn, D. (2021). Regional Traction Requirements of Female Basketball Shoes. Technical Report for adidas Concept Excellence.
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33. **Wannop, J.W.**, Esposito, M., Barrons, Z., Stefanyshyn, D.J. (2021). Mechanical Traction of Wet Non-infilled Artificial Surfaces. Technical Report for FieldTurf Inc.
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40. Barrons, Z., Esposito, M., Kowalchuk, S., **Wannop, J.W.**, Stefanyshyn, D.J. (2020). Hockey Stick Baseline Properties: Mechanical Testing. Technical Report for Sher-Wood Hockey.
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42. **Wannop, J.W.**, Kowalchuk, S., Stefanyshyn, D.J. (2020). Running Shoe Braking Forces: Functional Guidelines. Technical Report for Anta Sports Products Limited.
43. Esposito, M., Barrons, Z., **Wannop, J.W.**, Stefanyshyn, D.J. (2020). Midsole Cushioning: Mechanisms of Performance Improvement. Technical Report of adidas Future Team.
44. Esposito, M., Barrons, Z., Gebauer, S., **Wannop, J.W.**, Stefanyshyn, D.J. (2020). Futurecraft: Influence of Performance and Perception. Technical Report for adidas Future Team.
45. **Wannop, J.W.**, Kowalchuk, S., Singh, P., Smith, E., Sawka, A., Stefanyshyn D. (2020). Quantification of on-ice Kinematics during Speed Skating. Technical Report for Speed Skate Canada.
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47. **Wannop, J.W.**, Kowalchuk, S., Esposito, M., Stefanyshyn D.J. (2019). Optimizing Artificial Turf: Surface Stiffness. Technical Report for FieldTurf.
48. **Wannop, J.W.**, Barrons, Z., Stefanyshyn, D.J. (2019). Development of a Rugby Specific Traction Map. Technical Report for Under Armour.
49. **Wannop, J.W.**, Clermont, C., Perewernycky, N., Stefanyshyn, D.J. (2019). Evaluation of Basketball Shoes. Technical Report for CBC Marketplace.
50. **Wannop, J.W.**, Barrons, Z., Bill, K., Singh, P., Stefanyshyn, D.J. (2019). Evaluation of a Skating Technique Training System. Technical Report for J. Webb & R. Stone.
51. **Wannop, J.W.**, Esposito, M., Cooke, E., Burkhardt, K., Stefanyshyn, D.J. (2019). Carbon and Cushioning: Influence on Athlete Biomechanics. Technical Report for adidas Future Team.
52. **Wannop, J.W.**, Cooke, E., Burkhardt, K., Bill, K., Hartley, D., Stefanyshyn, D.J. (2019). Influence of Midsole Cushioning Density Heel Drop and Shoe Preference on Running Biomechanics and Performance. Technical Report for adidas Future Team.
53. **Wannop, J.W.**, Barrons, Z., Esposito, M., Park, S.K., Stefanyshyn D.J. (2019). Traction of Tennis Shoes. Technical Report for Fila.
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55. **Wannop, J.W.**, Bill, K., Burkhardt, K., Cooke, E., Stefanyshyn, D.J. (2018). Foot Sensitivity and Insole Selection: Pilot Study. Technical Report for Superfeet.

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57. **Wannop, J.W.**, Bill, K., Cooke, E., Stefanyshyn, D.J. (2018). Work Category Development: Boot and Apparel Comparisons. Technical Report for Ariat International.
58. Stefanyshyn, D.J., Cooke, E.S., Barrons, Z., Burkhardt, K., **Wannop, J.W.** (2018). Influence of Foot Arch Properties on Running Biomechanics. Technical Report for FILA.
59. **Wannop, J.W.**, Cooke, E., Bill, K., Barrons, Z., Stefanyshyn, D.J. (2018). Identifying Optimal Basketball Forefoot Bending Stiffness. Technical Report for adidas Future Team.
60. **Wannop, J.W.**, Varughese, J., Stefanyshyn, D.J. (2018). Influence of Infill Depth and Fibre Height on Rotational Traction. Technical Report for FieldTurf Inc.
61. Stefanyshyn, D.J., **Wannop, J.W.**, Barrons, Z.B. (2018). Futurecraft 4D: Running Midsole Cushioning. Technical Report for adidas Future Team.
62. **Wannop, J.W.**, Cooke, E., Madden, R., Stefanyshyn, D.J. (2018). The Influence of Upper and Tooling Stiffness on Lateral Movements in Basketball. Technical Report for adidas Future Team.
63. Madden, R., Varughese, J., **Wannop, J.W.**, Stefanyshyn D.J. (2018). Mixed Martial Arts Performance: Development of a Heavy Bag to Measure Strike Force. Technical Report for Reebok.
64. Madden, R., **Wannop, J.W.**, Cooke, E., Bonli, L., Stefanyshyn, D.J. (2018). American Football Footwear: Traction and Biomechanics. Technical Report for adidas Future Team.
65. **Wannop, J.W.**, Varughese, J., Park, S.K., Stefanyshyn D.J. (2017). Influence of Fiberglass on Outsole Slip Resistance. Technical Report for Fila.
66. **Wannop J.W.**, Foreman, T., Madden, R., Stefanyshyn D.J. (2017). Influence of Artificial Turf Infill Material on Rotational Traction and Athlete Biomechanics: NSERC Engage+. Technical Report for FieldTurf.
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69. Madden, R., **Wannop, J.W.**, Foreman, T., & Stefanyshyn, D.J. (2017). Copper Fit Balance Insole: Biomechanical Assessment. Technical Report for Ideavillage Products Corp.
70. **Wannop, J.W.**, Madden, R., Spiegelhoff, N., Volkel, R., & Stefanyshyn, D.J. (2017). Matching insoles to individuals. Technical Report for Superfeet.
71. **Wannop, J.W.**, Madden, R., Esposito, M., & Stefanyshyn D.J. (2017). Influence of midsole cushioning density on female running performance and athlete perception. Technical Report for adidas Future Team.
72. Stefanyshyn, D.J., Madden, R., & **Wannop, J.W.** (2017). Motocross Boots: Baseline Biomechanical Data. Technical Report for Fox.
73. **Wannop, J.W.**, & Stefanyshyn, D.J. (2017). Reactive Compression Apparel Prototype Assessment III. Technical Report for Xtep.
74. **Wannop, J.W.**, Killick, A., Spiegelhoff, N., Esposito, M., & Stefanyshyn, D.J. (2017). Copper Fit Knee Compression Sleeve Pilot Study. Technical Report for Ideavillage Products Corp.
75. **Wannop, J.W.**, & Stefanyshyn, D.J. (2017). Mixed Martial Arts Performance: Punching and Kicking Literature Review. Technical Report for Reebok.

76. **Wannop, J.W.**, Killick, A., Spiegelhoff, N. & Stefanyshyn, D.J. (2017). Outsole Traction of Tennis Shoes. Technical Report for Fila.
77. **Wannop, J.W.**, Madden, R., Killick, A., Foreman, T. & Stefanyshyn, D.J. (2017). Upper Stiffness: Basketball. Technical Report for adidas Future Team.
78. Madden, R., Killick, A., Foreman, T., **Wannop, J.W.** & Stefanyshyn, D.J. (2017). Upper Stiffness: Football. Technical Report for adidas Future Team.
79. Madden, R., Killick, A., Foreman, T., **Wannop, J.W.** & Stefanyshyn, D.J. (2017). Upper Stiffness: Running. Technical Report for adidas Future Team.
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81. **Wannop, J.W.**, Killick, A., Madden, R., & Stefanyshyn, D.J. (2016). Evaluation of Gearing Footwear. Technical Report for Carbitex.
82. **Wannop, J.W.**, Killick, A., Madden, R., & Stefanyshyn D.J. (2016). Influence of the Composition of Artificial Turf on Rotational Traction and Athlete Biomechanics. Technical Report for FieldTurf.
83. **Wannop, J.W.** & Stefanyshyn, D.J. (2016). NFL Foot Scanner Recommendation. Technical Report for Biocore and the National Football League.
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85. **Wannop, J.W.**, Killick, A., Badgery, K. & Stefanyshyn, D.J. (2016). Football Footwear: Stiffness & Toe Spring. Technical Report for adidas Future Team.
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88. **Wannop, J.W.**, Madden, R.J., Sakaguchi, M. & Stefanyshyn, D.J. (2016). Optimizing Footwear Properties: Footwear Traction. Technical Report for adidas Future Team.
89. Madden, R., **Wannop, J.W.**, Sakaguchi, M., Flores, C., & Stefanyshyn, D.J. (2016). Footwear Interventions to Improve Jump Performance. Technical Report for adidas Future Team.
90. Grover, R., Madden, R., **Wannop, J.W.**, & Stefanyshyn, D.J. (2016). Youth Hockey Stick Bending. Technical Report for Raven Hockey.
91. **Wannop, J.W.** & Stefanyshyn, D.J. (2016). Forefoot Bending Stiffness: Current Knowledge and Recommendations. Technical Report for adidas Future Team.
92. **Wannop, J.W.**, Madden, R., Sakaguchi, M., & Stefanyshyn, D.J. (2016). Better Way to Walk Footwear Final Evaluation. Technical Report for Mark's Work Wearhouse.
93. **Wannop, J.W.**, Madden, R., Sakaguchi, M., & Stefanyshyn, D.J. (2016). Development of a Sub-Two Hour Marathon Shoe: Interaction of Cushioning and Forefoot Bending Stiffness. Technical Report for adidas Future Team.
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97. **Wannop, J.W.**, Madden, R., Sakaguchi, M., Bowers, S. & Stefanyshyn, D.J. (2015). Toe-Spring and Forefoot Bending Stiffness in Basketball Footwear. Technical Report for adidas Future Team.
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99. **Wannop, J.W.**, Madden, R., Sakaguchi, M. & Stefanyshyn, D.J. (2015). Better Way to Walk Footwear Evaluation. Technical Report for Marks Work Wearhouse.
100. **Wannop, J.W.**, Madden, R., Sakaguchi, M. & Stefanyshyn, D.J. (2015). Jump Performance: Quickness & Height. Technical Report for adidas Future Team.
101. **Wannop, J.W.**, Madden, R., Sakaguchi, M., Benker, R. & Stefanyshyn, D.J. (2015). Development of a Sub-Two Hour Marathon Shoe: Cushioning. Technical Report for adidas Future Team.
102. Madden, R., **Wannop, J.W.**, Carpino, G., Benker, R., Stefanyshyn, D.J. (2015). Evaluation of the Sparta Footwear Classification Tool. Technical Report for Taylormade-adidas Golf.
103. Madden, R., **Wannop, J.W.**, Koska, D., Sakaguchi, M., Stefanyshyn, D.J. (2014). Evaluation of Hi-Octane Footwear. Technical Report for adidas AIT.
104. **Wannop, J.W.**, Madden, R., Joseph, N., Koska, D., Sakaguchi, M., Stefanyshyn, D.J. (2014). Development of a Middle Distance Shoe: Phase 3. Technical Report for adidas AIT.
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106. **Wannop, J.W.**, Madden, R., Tomaras, E., Sakaguchi, M., Koska, D., Stefanyshyn, D.J. (2014). Development of a Sub-Two Hour Marathon Shoe: Forefoot Stiffness. Technical Report for adidas AIT.
107. **Wannop, J.W.**, Madden, R., Sakaguchi, M., Stefanyshyn, D.J. (2014). Understanding the Functional Requirements of Riding Boots: Overview Report. Technical Report for Ariat International.
108. Madden, R., **Wannop, J.W.**, Sakaguchi, M., Lewinson, R., Koska, D., Stefanyshyn, D.J. (2014). Functional Needs and Requirements of English Riding Boors. Technical Report for Ariat International.
109. **Wannop, J.W.**, Sakaguchi, M., Madden, R., Stefanyshyn, D.J. (2014). Functional Requirements of Barrel Racers. Technical Report for Ariat International.
110. **Wannop, J.W.**, Sakaguchi, M., Madden, R., Lewinson, R., Koska, D., Stefanyshyn, D.J. (2014). Functional Needs and Requirements of Reiners & Cutters. Technical Report for Ariat International.
111. **Wannop, J.W.**, Sakaguchi, M., Madden, R., Stefanyshyn, D.J. (2014). The Influence of Kolon Sport Trekking Shoes on Muscle Activity. Technical Report for Korea Footwear International.
112. **Wannop, J.W.**, Madden, R., Stefanyshyn, D.J. (2014). Properties of Basketball Footwear. Technical Report for Orlando Magic.
113. **Wannop, J.W.**, Luelf, S., Madden, R., Schrier, N., Stefanyshyn, D.J. (2014). Cushioning Requirements of Basketball Shoes. Technical Report for adidas AIT.

114. Madden, R., Schrier, N., **Wannop, J.W.**, Stefanyshyn, D.J. (2013). Evaluation of a New Golf Footwear Traction Design. Technical Report for TaylorMade Golf.
115. **Wannop, J.W.**, Wolter, M., Schrier, N., Luel, S., Stefanyshyn, D.J. (2013). Can Compression Aid in Maintaining Jump Performance? Technical Report for adidas AIT.
116. **Wannop, J.W.**, Kondro, D., Schrier, N., Grover, R., Madden, R., Stefanyshyn, D.J. (2013). Development of a Middle Distance Shoe: Phase 1. Technical Report for adidas AIT.
117. **Wannop, J.W.**, Tomaras, E., Woo, B., Grover, R., Stefanyshyn, D.J. (2013). Influence of Springblade Footwear on Running Economy. Technical Report for adidas AIT.
118. **Wannop, J.W.**, Worobets, J.T., & Stefanyshyn, D.J. (2013). adidas adiPure Crazyquick Performance Evaluation. Technical Report for adidas AIT.
119. Worobets, J.T., **Wannop, J.W.**, McMurray, O., & Stefanyshyn, D.J. (2012). The Effect of Hip Joint Stiffness on Jumping Kinematics. Technical Report for adidas AIT.
120. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn D.J. (2012). Adapting to Increased Driver Length. Technical Report for TaylorMade-adidas Golf.
121. Worobets, J.T., Fukuchi, C., Tomaras, E., **Wannop, J.W.**, Stefanyshyn, D.J. (2012). Energetics of Boost Footwear. Technical Report for adidas AIT.
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123. **Wannop, J.W.**, Schrier, N., Ruiz, R., Worobets, J.T., Stefanyshyn, D.J. (2012). Outsole Traction Maps for American Football Cleats. Technical Report for adidas AIT.
124. **Wannop, J.W.**, Schrier, N., Ruiz, R., Worobets, J.T., Stefanyshyn, D.J. (2012). Effect of Plate Stiffness in American Football Cleats. Technical Reports for adidas AIT.
125. **Wannop, J.W.**, Schrier, N., Worobets, J.T., Ruiz, R., Stefanyshyn, D.J. (2012). Artificial Turf Toolbox. Technical Reports for adidas AIT.
126. Worobets, J.T., **Wannop, J.W.**, Ruiz, R., Stefanyshyn, D.J. (2012). Outsole Traction Requirements for Outdoor Shoes. Technical Reports for adidas AIT.
127. **Wannop, J.W.**, Worobets, J.T., Stefanyshyn, D.J. (2012). Articulate Basketball Footwear: Performance and Injury Risk Assessment. Technical Reports for adidas AIT.
128. **Wannop, J.W.**, Worobets, J.T., van der Smissen, S., Walgaard, S., Beudel, J., Stefanyshyn, D.J. (2011). The Effect of Upper Leg Compression and Hip Joint Stiffness on Sprinting and Jumping Performance. Technical Reports for adidas AIT.
129. Worobets, J.T., Fukuchi, C.A., Palhano, R., **Wannop, J.W.**, Stefanyshyn, D.J. (2011). Quantifying the Effect of Footwear on Tennis Performance. Technical Reports for adidas AIT.
130. **Wannop, J.W.**, Palhano, R., Worobets, J.T., Stefanyshyn, D.J. (2011). Regional Traction Requirements of Basketball Shoes. Technical Report for adidas AIT.
131. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn, D.J. (2011). The effect of Techfit Suit Size on Sprinting and Jumping Performance. Technical report for adidas AIT.
132. Stefanyshyn, D.J., Worobets, J.T., Josef, N., Luo, G., **Wannop, J.W.** (2010). Spike Traction and Spike Placement. Technical report for adidas AIT.
133. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn, D.J. (2010). Printed PU vs. Pressed TPU PowerWeb Apparel. Technical report for adidas AIT.

134. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn, D.J. (2010). PowerWeb Cycling Shorts. Technical report for adidas AIT.
135. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn, D.J. (2010). Adidas Launch Control. Technical report for adidas AIT.
136. Worobets, J.T., Stergiou, P., Hess, T., Schmidt, D., **Wannop, J.W.**, & Stefanyshyn, D.J. (2010). Adidas Fluid Ride: Assessing the Fluid Ride Concept in Prototype Athletic Training Shoes. Technical report for adidas AIT.
137. Stefanyshyn, D.J., Graf, E., **Wannop, J.W.** (2010). Football Torsion. Technical report for adidas AIT.
138. Stefanyshyn, D.J. & **Wannop J.W.** (2009). Basketball Banking. Technical report for adidas AIT.
139. Worobets, J.T., **Wannop, J.W.**, Stefanyshyn, D.J. (2009). Influence of PowerWeb Stiffness on Hip Joint Mechanics, Energy Storage and Performance during Sprinting and Jumping. Technical report for adidas AIT.
140. Stefanyshyn, D.J., Graf, E., **Wannop, J.W.**, & Worobets, J.T. (2008). Footwear Torsion. Technical report for adidas AIT.
141. Worobets, J.T., **Wannop, J.W.** & Stefanyshyn, D.J. (2008). Klap Mechanism Revolution. Research report for Own the Podium – Top Secret 2010.
142. **Wannop, J.W.**, Worobets, J.T. & Stefanyshyn D.J. (2008). Speed Skate Apparel Design. Research report for Own the Podium – Top Secret 2010.
143. Worobets, J.T., **Wannop, J.W.** & Stefanyshyn, D.J. (2008). Formotion Hiking on Level Ground. Technical report for adidas AIT.
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145. **Wannop, J.W.**, Worobets, J.T., Stefanyshyn, D.J. & Nigg, B.M. (2006). Analysis of Formotion Basketball Footwear. Technical report for adidas AIT.

INVITED SPEAKER

1. 2022 Pedorthic Runners Forum – September 16, 2022 – Influence of Longitudinal Bending Stiffness of Footwear on Athletic Injury and Performance - Keynote
2. 2021 FieldTurf Annual Sales Meeting – November 10, 2021 – Marana, Arizona, USA – Turf Traction Research
3. 2019 Canadian Academy of Sport and Exercise Medicine – September 14, 2019 – Calgary, Alberta, Canada – Running Shoe Design and Biomechanics.
4. 2019 Xsens User Meeting – July 31, 2019 – Calgary, Alberta, Canada – Use of Xsens to Quantify In-field Kinematics of High-Performance Athletes

REFEREE FOR JOURNAL PAPERS

Footwear Science
 Journal of Applied Biomechanics
 Sport Biomechanics
 British Journal of Sports Medicine
 Medicine & Science in Sports & Exercise

ASSOCIATE EDITOR FOR JOURNAL

Footwear Science – 2019 -

GUEST EDITOR FOR JOURNAL

Special Issue: Bending Stiffness Performance and Injury Effects (2016) Footwear Science, 8(2).

AWARDS

2012-2014	Alberta Innovates Industry r&D Associate	\$55,000 per year
2011	Benno Nigg Distinguished Faculty Achievement Award	\$800
2011	Faculty of Graduate Studies Achievement Award	\$500
2011	Young Investigator Award Footwear Biomechanics Group	\$1000
2011	NSERC CREATE Travel Grant	\$750
2011	Faculty of Kinesiology Travel Grant	\$1000
2011	University of Calgary Travel Grant	\$1000
2011	Faculty of Graduate Studies Scholarship	\$3000
2010 -2012	NSERC PGS D Ph. D. award	\$21,000 per year
2009	International Society of Biomechanics Travel Grant	\$1500
2009	University of Calgary Travel Grant	\$1000
2009	University of Calgary Graduate Research Scholarship	\$3000
2009	University of Calgary Graduate Research Scholarship	\$4050
2008-2009	NSERC PGS Masters Award	\$17,300 per year
2008-2011	Graduate Research Assistantship – Teaching	\$7950 per year
2007	University of Calgary Graduate Research Scholarship	\$2050
2006	Markin-Flanigan Scholarship	\$2500

2006	Student Assistance Bursary	\$800
2005	Markin-Flanigan Scholarship	\$4000

GRANTS

2022-2024	Title: Football Cleats to Optimize Rotational Traction on Artificial Turf Funding Agency: Mitacs Principal Investigator: John Wannop Amount: \$120,000
2019-2020	Title: Optimizing the comfort for 3D printed insoles Funding Agency: NSERC Principal Investigator: John Wannop Amount: \$25,000
2019-2021	Title: Optimizing artificial turf Funding Agency: NSERC Principal Investigator: Darren Stefanyshyn Amount: \$226,600
2017-2019	Title: The influence of footwear traction on biomechanical injury risk in rugby Funding Agency: World Rugby Principal Investigator: Darren Stefanyshyn Amount: \$88,216
2016-2018	Title: Towards the real-time monitoring of tendon strain and cumulative damage to minimize the risk of patellar tendinopathy. Funding Agency: NBA/GE Healthcare Orthopedics and Sports Medicine Collaboration Principal Investigator: Brent Edwards Amount: \$138,521

STUDENTS SUPERVISED

2022	Anniek Vogel	Hague University of Applied Science
2022	Loic Gavoille	ESPCI Paris – PSL, France
2021	Jake Ruschkowski	University of Calgary, Canada
2021	Gabriella Durante	University of Calgary, Canada
2021	Marina Culo	University of Calgary, Canada
2020	Eugene Dominguez	University of Calgary, Canada

2020	Alexandra Sawka	University of Calgary, Canada
2020	Emily Smith	University of Calgary, Canada
2019	Simon Gebauer	University of Technology, Chemnitz
2018	Katharina Burkhardt	University of Technology, Chemnitz
2018	Isa van Rijswijk	Hague University of Applied Science
2018	Thomas Reijnierse	Hague University of Applied Science
2018	Jonatan Jungmalm	University of Gothenburg
2018	Danielle Hartley	University of Calgary, Canada
2018	Zach Barron	University of Northern Colorado, USA
2018	Anke Nesselhaar	University of Twente, Netherlands
2018	Kevin Bill	German Sport University Cologne, Germany
2018	Leesa Schlenker	University of Calgary, Canada
2017	Leah Bonli	University of Calgary, Canada
2017	Quita Pol	Hague Academy, Netherlands
2017	Tessa von Enter	Hague Academy, Netherlands
2017	Teague Foreman	University of Calgary, Canada
2017	Michael Esposito	University of Calgary, Canada
2017	Richard Voelkel	TU Chemnitz, Germany
2017	Nils Spiegelhoff	German Sport University Cologne
2016	Jasper Kwasny	University of Calgary, Canada
2016	Teague Foreman	University of Calgary, Canada
2016	Julia Prusch	Universidade Federal Porto Alegre, Brazil
2016	Jon Hack	University of Calgary, Canada
2016	Kip Badgery	University of Waterloo, Canada
2016	Rosemary Grover	University of Calgary, Canada

2016	Courtney Woo	University of Calgary, Canada
2015	Amy Hawkings	University of Calgary, Canada
2015	Carolina Viero	Universidade Federal Porto Alegre, Brazil
2015	Carla Flores	Universidad Iberoamericana, Mexico
2015	Madison Grainger	University of Calgary, Canada
2014	Rita Benker	German Sport University, Cologne, Germany
2014	Daniel Koska	Technical University of Chemnitz, Germany
2014	Giancarlo Carpino	University of Calgary, Canada
2014	Lina Felser	Friedrich Alexandre Universitat, Germany
2014	Billy Woo	University of Calgary, Canada
2014	Brendan Wong	University of Calgary, Canada
2014	Brian McPhee	University of Calgary, Canada
2013	Steffen Luiff	German Sport University, Cologne, Germany
2013	Marie Wolter	German Sport University, Cologne, Germany
2013	Rosemary Grover	University of Calgary, Canada
2013	Doug Kondro	University of Calgary, Canada
2013	Telaina Sewers	University of Calgary, Canada
2013	Michael Foster	University of Calgary, Canada
2012	Olivia McMurray	University of Calgary, Canada
2012	Luis Rodrigo Ruiz Vilchis	Universidad Iberoamericana, Mexico
2011	Sjoerd van der Smissen	The Hague University, The Netherlands
2011	Stefan Walgaard	The Hague University, The Netherlands
2011	Joris Beudel	The Hague University, The Netherlands
2009	Laural Kuntz	University of Calgary, Canada
2008	Cole Stroeder	High School Student - HYRS Program