

## Christian A. Clermont, PhD

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### PROFILE

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Sport scientist with a commitment to excellence in health outcomes, performance, and injury prevention. Currently a Postdoctoral Fellow at the University of Calgary specializing in biomechanical analysis, wearable technology, and pattern recognition methods to prevent injury and improve performance in health & sport. Looking for an opportunity to share my passions in health, sport, and innovation and further demonstrate my intellectual curiosity in higher education.

### KEY STRENGTHS

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**Technical skills:** Extensive experience using technology to collect biomechanics data with 3D motion capture, force platforms, wearable technology, EMG, pressure sensing insoles, and foot scanners. Sophisticated programming skills to process and analyze multivariate data in MATLAB.

**Experimental design and analysis:** Expertise in the formation of hypotheses, planning of experiments, sophisticated analysis of results with inferential statistics and machine learning, and trouble-shooting.

**Communication skills:** Developed through writing manuscripts and research reports, presenting at conferences, teaching, and personal interactions with peers, faculty, and students.

**Leadership skills:** Mentored undergraduate and graduate students in research for a variety of projects. Taught hundreds of students and trained many teaching assistants as an instructor in higher education.

### EDUCATION

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| <b>Ph.D. Kinesiology</b><br>University of Calgary, Calgary, Alberta<br>Thesis: <i>Making Sense of Sensor Data for Recreational and Competitive Runners: Typical and Atypical Running Biomechanics</i><br>Advisor: Dr. Reed Ferber, Faculty of Kinesiology, University of Calgary | 2019 |
| <b>M.Sc. Kinesiology</b><br>University of Regina, Regina, Saskatchewan<br>Thesis: <i>The Effect of Knee Osteoarthritis on the Variability &amp; Fractal Dynamics of Human Gait</i><br>Advisor: Dr. John Barden, Faculty of Kinesiology & Health Studies, University of Regina    | 2015 |
| <b>B.Kin – Fitness &amp; Lifestyle (Honours)</b><br>University of Regina, Regina, Saskatchewan<br>Honours Thesis: <i>Decreased Breathing Frequency and Stroke Parameters in Competitive Swimming</i>   | 2010 |

## PROFESSIONAL EXPERIENCE

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- Postdoctoral Fellow** July 2019 - Present  
University of Calgary, Kinesiology & Sport Insight Inc.
- Sessional Instructor** September 2018 - Present  
University of Calgary, Kinesiology
- Human Anatomy & Physiology (KNES 259 & 260)
  - Laboratory Practicum – Human Anatomy Dissection (KNES 460)
  - Computer Applications in Kinesiology (KNES 381)
- Anatomist** May 2019 - March 2020  
University of Calgary, Cumming School of Medicine
- Advanced Technical Skills Simulation Laboratory
- Head Teaching Assistant (Lab Coordinator)** September 2015 - April 2019  
University of Calgary, Kinesiology
- Human Anatomy & Physiology (KNES 259 & 260)
- Research Assistant** April 2017 - May 2018  
Active & Safe BC – Running-Related Injuries
- Research Assistant** March 2015 - August 2015  
Regina Qu'Appelle Health Region, Research & Performance Support
- Sessional Instructor** January 2013 - June 2015  
University of Regina, Kinesiology & Health Studies
- Research Methods in KHS (KIN 220)
  - Biomechanics (KIN 285)
  - Lifestyle, Health, & Wellness (KIN 170)
  - Seminar in KHS (KHS 100 & KIN 101)
  - Personal Fitness & Wellness (KHS 135)
  - Human Physiology (KIN 267 Online)
- Research Assistant** July 2012 - August 2014  
University of Regina, Centre for Teaching & Learning

## ACADEMIC AWARDS & SCHOLARSHIPS

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**Total Amount Awarded: \$267,000**

### Research & Scholarship:

- CIHR Postdoctoral Fellowship (\$80,000 + \$10,000 research allowance) 2020 - 2022
- AI:TF Graduate Student Scholarship (\$24,000; Top-up to NSERC PGS-D) 2017 - 2019
- NSERC Postgraduate Scholarship – Doctoral (\$42,000) 2017 - 2019
- Queen Elizabeth II Graduate Scholarship (\$15,000; Declined due to NSERC) 2017
- University of Calgary, Kinesiology Dean's Doctoral Studentship (\$80,000) 2015 - 2019
- University of Regina, FGSR Graduate Scholarships (\$12,000 total) 2011 - 2012

### Teaching & Leadership:

- University of Regina, Faculty of KHS Outstanding Graduate Student Award 2015
- University of Regina New Faculty Teaching Award of Recognition (\$1,000) 2014

### Travel & Conferences:

- University of Calgary, Faculty of Kinesiology Presentation Award (\$1,000) 2017
- University of Calgary, FGS Travel Award (\$1,500) 2017
- University of Regina, FGSR Graduate Travel Award (\$500) 2013

## PUBLICATIONS

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22. **Clermont, C.**, Barrons, Z., Esposito, M., Dominguez, E., Culo, M., Wannop, J.W., & Stefanyshyn, D. (Under Review). The influence of midsole shear on running economy and smoothness with a 3D-printed midsole. *Sports Biomechanics*. Manuscript ID: RSPB-2021-0400.
21. Benson, L.C., Räisänen, A.M., **Clermont, C.A.**, & Ferber, R. (Under Review). Is this the real life, or is it just laboratory? A scoping review of IMU-based running gait analysis. *Gait & Posture*.
20. West, S.W., Shill, I.J., **Clermont, C.**, Pavolvic, N., Cairns, J., Seselja, B., Hancock, M., Roberts, S.P., Hendricks, S., & Emery, C.A. (Under Review). Same name, same game, but is it different? An investigation of female rugby union match events in Canadian Varsity players. *International Journal of Sports Science and Coaching*.
19. Singh, P., Esposito, M., Barrons, Z., **Clermont, C.A.**, Wannop, J., & Stefanyshyn, D. (Under Review). Utilizing data from a local positioning system as input into a neural network to determine stride length. *Frontiers*.
18. Singh, P., Esposito, M., Barrons, Z., **Clermont, C.A.**, 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, doi: <https://doi.org/10.3390/s21092896>
17. **Clermont, C.A.**, Pohl, A.J., & Ferber, R. (2020). Fatigue-related changes in running gait patterns persist in the days following a marathon race. *Journal of Sport Rehabilitation*, 29(7), 934-941. doi: <https://doi.org/10.1123/jsr.2019-0206>
16. Kobsar, D., Barden, J., **Clermont, C.**, & Ferber, R. (2020). Sex differences in the gait regularity and symmetry of older adults with and without knee osteoarthritis. *Osteoarthritis & Cartilage*, 28(S1), S235-S236. doi: <https://doi.org/10.1016/j.joca.2020.02.380>
15. Benson, L., **Clermont, C.A.**, & Ferber, R. (2020). New considerations for collecting biomechanical data using wearable sensors: The effect of different running surfaces. *Frontiers in Bioengineering and Biotechnology: Biomechanics*, 8(86), 1-8. doi: <https://doi.org/10.3389/fbioe.2020.00086>
14. **Clermont, C.A.**, Duffett-Leger, L., Hettinga, B.A., & Ferber, R. (2020). Runners' perspectives on 'smart' wearable technology and its use for preventing injury. *International Journal of Human-Computer Interaction*, 36(1), 31-40. doi: <https://doi.org/10.1080/10447318.2019.1597575>
13. **Clermont, C.A.**, Benson, L., Edwards, W.B., Hettinga, B.A., & Ferber, R. (2019). New considerations for wearable technology data: Changes in running biomechanics during a marathon. *Journal of Applied Biomechanics*. 35(6), 401-409. doi: <https://doi.org/10.1123/jab.2018-0453>
12. Ahamed, N.U., Benson, L.C., **Clermont, C.A.**, Pohl, A.J., & Ferber, R. (2019). New considerations for collecting biomechanical data using wearable sensors: How does inclination influence the number of runs needed to determine a stable running gait pattern? *Sensors*, 19, 2516. doi: <http://dx.doi.org/10.3390/s19112516>.
11. **Clermont, C.A.**, Phinyomark, A., Osis, S.T., & Ferber, R. (2019). Classification of higher- and lower-mileage runners based on running kinematics. *Journal of Sport and Health Science*, 8(3), 249-257. doi: <https://doi.org/10.1016/j.jshs.2017.08.003>
10. Benson, L.C., **Clermont, C.A.**, Watari, R., Exley, T., & Ferber, R. (2019). Automated accelerometer-based gait event detection during multiple running conditions. *Sensors*, 19(7), 1483. doi: <https://doi.org/10.3390/s19071483>

9. Ahamed, N.U., Kobsar, D., Benson, L., **Clermont, C.**, Osis, S.T., & Ferber, R. (2019). Subject-specific and group-based running pattern classification using a single wearable sensor. *Journal of Biomechanics*, 84(14), 227-233. doi: <https://doi.org/10.1016/j.jbiomech.2019.01.001>
8. **Clermont, C.A.**, Benson, L.C., Osis, S.T., Kobsar, D., & Ferber, R. (2019). Running patterns for male and female competitive and recreational runners based on accelerometer data. *Journal of Sports Sciences*, 37(2), 204-211. doi: <https://doi.org/10.1080/02640414.2018.1488518>
7. Ahamed, N., Kobsar, D., Benson, L., **Clermont, C.**, Kohrs, R., Osis, S.T., & Ferber, R. (2018). Using wearable sensors to classify subject-specific running biomechanical gait patterns based on changes in environmental weather conditions. *PloS ONE*, 13(9): e0203839. doi: <https://doi.org/10.1371/journal.pone.0203839>.
6. Benson, L.C., **Clermont, C.A.**, Bošnjak, E., & Ferber, R. (2018). The use of wearable devices for walking and running gait analysis outside of the lab: A systematic review. *Gait & Posture*, 63, 124-138. doi: <https://doi.org/10.1016/j.gaitpost.2018.04.047>
5. Benson, L.C., **Clermont, C.A.**, Osis, S.T., Kobsar, D., & Ferber, R. (2018). Classifying running conditions using a single wearable sensor: Optimal segmentation and feature extraction methods. *Journal of Biomechanics*, 71(11), 94-99. doi: <https://doi.org/10.1016/j.jbiomech.2018.01.034>
4. Macaulay, C.A.J., Osis, S.T., **Clermont, C.**, & Ferber, R. (2017). The use of real-time feedback to improve kinematic marker placement consistency among novice examiners. *Gait & Posture*, 58, 440-445. doi: <http://dx.doi.org/10.1016/j.gaitpost.2017.08.040>
3. **Clermont, C.A.**, Osis, S., Phinyomark, A., & Ferber, R. (2017). Kinematic gait patterns in competitive and recreational runners. *Journal of Applied Biomechanics* 33(4), 268-276. doi: <https://doi.org/10.1123/jab.2016-0218>
2. Barden, J.M., **Clermont, C.A.**, Kobsar, D., & Beauchet, O. (2016). Accelerometer-based step regularity is lower in older adults with bilateral knee osteoarthritis. *Frontiers in Human Neuroscience*, 10(625). doi: <https://dx.doi.org/10.3389%2Ffnhum.2016.00625>
1. **Clermont, C.A.** & Barden, J.M. (2016). Accelerometer-based determination of gait variability in older adults with knee osteoarthritis. *Gait and Posture*, 50, 126-130. doi: <http://dx.doi.org/10.1016/j.gaitpost.2016.08.024>.

## REFEREED CONFERENCE PROCEEDINGS

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22. **Clermont, C.**, Barrons, Z., Esposito, M., Culo, M., Dominguez, E., Wannop, J.W., & Stefanyshyn, D. (Accepted, 2021, July). *The Influence of Midsole Shear on Running Smoothness*. 15<sup>th</sup> Biennial Footwear Biomechanics Symposium, Göteborg, Sweden. doi: 10.1080/19424280.2021.1916612
21. **Clermont, C.**, Wannop, J.W., Normand, A., Emery, C., & Stefanyshyn, D. (2021, May). *Differences in Biomechanics between Head Impact Locations in Youth Football Players*. Poster presentation at the 21<sup>st</sup> Biennial Meeting of the Canadian Society for Biomechanics, Montreal, PQ.
20. **Clermont, C.**, Wannop, J.W., Normand, A., Emery, C., & Stefanyshyn, D. (2021, May). *The Use of Impact Monitoring Mouthguards to Quantify Head Impact Biomechanics in Youth Football Players*. Oral presentation at the 21<sup>st</sup> Biennial Meeting of the Canadian Society for Biomechanics, Montreal, PQ.
19. Pankow, M.P., Srydiuk, R., Kolstad, A.T., **Clermont, C.A.**, Dennison, C.R., Hagel, B., Mrazik, M., & Emery, C.A. (2021, January). *Keep your Head Up: Examining Head Impacts through Video-analysis in Canadian High School Football*. Poster presentation at the Canadian Traumatic Brain Injury Research Consortium (CTRC) Meeting #10.

18. Singh, P., Esposito, M., Barrons, Z.B., **Clermont, C.A.**, Wannop, J.W., & Stefanyshyn, D.J. (July, 2020). *Determining Speed and Stride Length of Runners using an Ultrawide Bandwidth Local Positioning System equipped with an Inertial Measurement Unit*. 44<sup>th</sup> Annual Meeting of the American Society of Biomechanics, Atlanta, GA.
17. **Clermont, C.A.**, Agnew, L., Benson, L., & Ferber, R. (2019, August). *Using Wearable Technology Data to Detect Atypical Running Patterns with Injury: A Case Report*. Oral presentation at the XXVII Congress of the International Society of Biomechanics, Calgary, AB.
16. Benson, L.C., **Clermont, C.A.**, Pohl, A.J., & Ferber, R. (2019, August). *Greater Medial-Lateral Regularity for Treadmill vs. Outdoor Running Observed in Males but Not Females*. Oral presentation at the XXVII Congress of the International Society of Biomechanics, Calgary, AB.
15. Ahamed, N.U., Benson, L.C., Pohl, A., **Clermont, C.A.**, & Ferber, R. (2019, August). *Does a Stable Running Pattern Remain Stable during Different Elevation Conditions?* Poster presentation at the XXVII Congress of the International Society of Biomechanics, Calgary, AB.
14. Ahamed, N.U., Benson, L., Kobsar, D., **Clermont, C.A.**, Pohl, A.J., & Ferber, R. (2019, May). *A Machine Learning Approach to Understand Intrinsic and Extrinsic Factors that Influence Running Gait Patterns*. Poster presentation at the Human Performance Optimization Symposium, Pittsburgh, PA.
13. **Clermont, C.**, Benson, L., Osis, S., Kohrs, R., Johnston, A., & Ferber, R. (2018, July). *Subject-Specific Running Profiles to Quantify Biomechanical Changes throughout a Marathon Race*. Oral presentation at the 8<sup>th</sup> World Congress of Biomechanics, Dublin, IRE.
12. Kobsar, D., Johnston, A., Kohrs, R., Osis, S., **Clermont, C.**, Jacob, C., & Ferber, R. (2018, July). *Validity of a Novel Method to Track Vertical Oscillations in Runners using Microsoft Kinect v2 Depth Data*. Poster presentation at the 8<sup>th</sup> World Congress of Biomechanics, Dublin, IRE.
11. Benson, L., Kobsar, D., **Clermont, C.**, Osis, S., & Ferber, R. (2018, June). *A Machine Learning Approach to Predicting Running-Related Pain Using Wearable Technology*. Poster presentation at the CASEM Annual Symposium, Halifax, NS.
10. Ahamed, N.U., Benson, L., **Clermont, C.**, Osis, S.T., & Ferber, R. (2017). Fuzzy inference system-based recognition of slow, medium, and fast running conditions using a triaxial accelerometer. *Procedia Computer Science*, 114, 401-407.
9. Macaulay, C.A.J., Osis, S.T., **Clermont, C.**, & Ferber, R. (2017, August). *Real-Time Feedback to Improve Marker Placement Consistency among Novice Examiners*. Poster presentation at the 41<sup>st</sup> Meeting of the American Society of Biomechanics, Boulder, CO.
8. **Clermont, C.**, Benson, L., Osis, S., Kobsar, D., & Ferber, R. (2017, July). *The Use of a 3D Accelerometer to Quantify Subject-Specific 'Typical' and 'Atypical' Running Gait Patterns*. Poster presentation at the XXVI Congress of the International Society of Biomechanics, Brisbane, QLD.
7. Benson, L., **Clermont, C.**, Osis, S., Kobsar, D., & Ferber, R. (2017, July). *Exploring Segmentation and Feature Extraction Methods for Classifying Running Conditions using 3D Accelerometers*. Oral presentation at the XXVI Congress of the International Society of Biomechanics, Brisbane, QLD.
6. **Clermont, C.**, Kobsar, D., Benson, L., Osis, S., & Ferber, R. (2016, November). *The Use of Wearable Technology to Monitor Subject-Specific Running Gait Patterns*. Poster presentation at the 11<sup>th</sup> Annual Sport Innovation Summit, Calgary, AB.
5. Phinyomark, A., Osis, S., **Clermont, C.**, & Ferber, R. (2016, July). *Differences in Running Mechanics between High- and Low-Mileage Runners*. Abstract presented at the European Society of Biomechanics Annual Conference, Lyon, France.

4. **Clermont, C.**, Kobsar, D., & Barden, J. (2016, July). *The Use of 3D Accelerometry to Investigate Step Time Variability and Asymmetry in Bilateral Knee Osteoarthritis*. Poster presentation at the 19<sup>th</sup> Meeting of the Canadian Society for Biomechanics, Hamilton, ON.
3. Phinyomark, A., Kobsar, D., Osis, S., **Clermont, C.**, & Ferber, R. (2016, July). *Gender Differences in Gait Kinematics in Competitive and Recreational Runners*. Poster presentation at the 19<sup>th</sup> Biennial Meeting of the Canadian Society for Biomechanics, Hamilton, ON.
2. **Clermont, C.**, Reed, J., Dash, M., & Barden, J. (2014, July). *Step and Stride Time Variability in Older Adults with Knee Osteoarthritis*. Poster presentation at the 7<sup>th</sup> World Congress of Biomechanics, Boston, MA.
1. **Clermont, C.** & Barden, J.M. (2013, October). *The Effect of Knee Osteoarthritis on the Variability and Fractal Dynamics of Human Gait*. Poster presentation at the 42<sup>nd</sup> Annual Scientific Meeting of the Canadian Association of Gerontology, Halifax, NS.

## PATENTS

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1. Ferber, R. Kobsar, D. Osis, S.T. **Clermont, C.** Benson, L.C. (2017). Method and system utilizing pattern recognition for detecting atypical movements during physical activity. U.S. Patent No. 62586565. Washington, DC: U.S. Patent and Trademark Office. Filed Nov. 15, 2017.

## TECHNICAL & INDUSTRY RESEARCH REPORTS

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6. Wannop, J.W., Barrons, Z., Esposito, M., **Clermont, C.**, Culo, M., Dominguez, E., & Stefanyshyn, D.J. (2021). *Female Forefoot Bending Stiffness*. Technical Report for adidas Future Team; 2021.
5. **Clermont, C.**, Wannop, J.W., Barrons, Z., Esposito, M., & Stefanyshyn, D.J. *4D Shear: Phase 2 Shoe Shear, Running Mechanics and Running Performance*. Technical Report for adidas Future Team; 2021.
4. Wannop, J.W., Kowalchuk, S., Bill, K., Smith, E., **Clermont, C.**, Stefanyshyn, D.J. *Foot Sensitivity and Insole Selection*. Technical Report for Superfeet; 2020.
3. Wannop, J.W., Kowalchuk, S., **Clermont, C.**, Smith, E., Barrons, Z., Sawka, A., Stefanyshyn, D.J. *Optimizing the Comfort of 3D Printed Insoles*. Technical Report for Wiivv; 2020.
2. Wannop, J.W., **Clermont, C.**, Perewernycky, N., & Stefanyshyn, D.J. *Evaluation of Basketball Shoes*. Technical Report for CBC Marketplace; 2019.
1. **Clermont, C.**, Black, A., Richmond, S.A., Pike, I., & Babul, S. *Evidence Summary: Running*. Active & Safe Central. BC Injury Research and Prevention Unit: Vancouver, BC; 2018. Available at <https://activesafe.ca/running/>.

## **JOURNAL REVIEW ACTIVITIES**

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Number of reviewed manuscripts in brackets.

- Footwear Science (1)
- Frontiers (3)
- Gait & Posture (3)
- Injury Epidemiology (1)
- Intl. Journal of Human-Computer Interaction (1)
- International Journal of Sports Medicine (1)
- Journal of Aging and Physical Activity (1)
- Journal of Applied Biomechanics (1)
- Journal of Biomechanics (4)
- Journal of Healthcare Engineering (1)
- Journal of Sport & Health Science (2)
- Journal of Sport Rehabilitation (1)
- Journal of Sports Science & Medicine (2)
- Medicine & Science in Sports & Exercise (2)
- Research Quarterly for Exercise and Sport (1)
- Sensors (2)
- Sports Biomechanics (4)

## **JOURNAL TOPIC EDITOR**

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- *Sensors* Special Issue – “*Wearable Sensors for Biomechanical Monitoring in Sport*”
  - Invited guest editor with Dr. Darren Stefanyshyn

## **POPULAR PRESS INTERVIEWS / CONTRIBUTIONS**

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- Sport Health Magazine – Sports Medicine Australia. (2020/21, Vol. 38, Issue 1). Runners’ Perspectives on ‘Smart’ Wearable Technology and its use for Preventing Injury. Retrieved from [https://issuu.com/-sma/docs/sport\\_health\\_volume\\_38\\_issue\\_1\\_running?fr=sZjRhMDE3NTA0NDA](https://issuu.com/-sma/docs/sport_health_volume_38_issue_1_running?fr=sZjRhMDE3NTA0NDA)
- Canadian Running Magazine. (2020, September/October, Vol. 13.6). Lab Rat: How soon is too soon?
- Brunswickan – UNB Student Newspaper. (2018, September 24). UNB track team is excited about wearable technology research in Calgary. Retrieved from <https://www.thebruns.ca/articles/unb-track-team-is-excited-about-wearable-technology-research-in-calgary>
- Outside Magazine. (2018, August 6). *The Automatic Hobbyjogger Detection Machine*. Retrieved from <https://www.outsideonline.com/2332596/hobbyjogger-running-study-accelerometer-injury>

## **PROFESSIONAL AFFILIATIONS**

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- Member, Footwear Biomechanics Group
- Member, International Society for Biomechanics
- Member, Canadian Society for Biomechanics

## **GRADUATE STUDENTS – THESIS SUPERVISORY COMMITTEE**

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Cody van Rassel, PhD, University of Calgary

July 2021 - Present

## **GRADUATE STUDENTS – THESIS EXAMINING COMMITTEE**

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Brian Russell, PhD, Auckland University of Technology

September 2020

## UNDERGRADUATE STUDENTS SUPERVISED

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- Gabriella Durante, Faculty of Kinesiology, University of Calgary May 2021 - Present
- Alberta Innovates Summer Studentship (\$6,000)
    - *The Influence of Forefoot Bending Stiffness in Female and Male Runners.*
- Nina Pavlovic, Faculty of Kinesiology, University of Calgary May 2020 - December 2020
- KNES 504 (Directed Study), Co-Supervised with Dr. Carolyn Emery
    - *Open play contact events and tackle-related head impact frequencies in Canadian female varsity rugby union: A video analysis evaluation*
  - University of Calgary NSERC-Create Summer Studentship (\$6,000)
    - *The Effect of Fatigue on Head Impact Biomechanics in Professional Rugby League Athletes.*
- Hannah Smith, Faculty of Engineering, University of Calgary May 2020 - August 2020
- University of Calgary ICRP Summer Studentship (\$6,000)
    - *The Influence of Tackling Technique on the Magnitude of Head Impact Accelerations in Rugby League Athletes.*

## PROFESSIONAL DEVELOPMENT

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- MOOC Concussion: Prevention, Detection and Management** 2019
- Offered by Université Laval and the University of Calgary, this MOOC demystifies concussion and explains how everyone can play a role in the prevention, identification, and management of this type of traumatic brain injury.
- Machine Learning by Stanford University on Coursera** 2016
- This course provided an introduction to machine learning, data mining, and statistical pattern recognition.
- Graduate Student Teaching Development Badge** 2016  
*Taylor Institute for Teaching and Learning, University of Calgary*
- Designed to provide educational development for graduate students about the roles, responsibilities, and skills required of a teaching assistant at the University of Calgary.
- Graduate Citation in University Teaching** 2012  
*Centre for Teaching and Learning, University of Regina*
- The course provided information about various pedagogical strategies for teaching at the university level.

## GUEST LECTURES

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- *Head Impact Biomechanics – The Use of Impact Monitoring Mouthguards.* Video recorded guest lecture for University of Calgary KNES 503.64 – Special Topics in Kinesiology (Concussion), taught by Dr. Jonathan Smirl. March 26, 2020.
- *The Hobbyjogger Index: Monitoring Gait Patterns for Recreational and Competitive Runners.* Guest lecture for University of Calgary KNES 603 – Innovations in Wearable Technology, taught by Dr. Reed Ferber. September 26, 2019.
- *Making Sense of Sensor Data: Detecting Typical and Atypical Running Patterns.* Guest lecture for University of Calgary KNES 213 – Introduction to Research in Kinesiology, taught by Dr. Venus Joumaa. October 17, 2018.
- *Aging and Postural Control.* Guest lecture for University of Regina KIN 380 – Advanced Motor Behaviour, taught by Dr. Kerri Staples. October 15, 2014.
- *Experiences as a KHS Master's Student.* Guest lecture for University of Regina KHS 800 – Graduate Seminar, taught by Dr. Shanthi Johnson. October 26, 2013.



## INVITED PRESENTATIONS

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- *The Importance of Running Biomechanics*. Guest speaker for the Eau Claire Running Room Half-Marathon, 10km, & 5km Training Clinics, Calgary, AB. December 2019 - March 2020.
- *Making Sense of Sensor Data for Runners: Typical and Atypical Running Patterns*. Seminar presentation for the University of Calgary HPL Seminar Series, Calgary, AB. June 2019.
- *Using Wearable Technology to Evaluate Gait*. Workshop presentation at “Becoming a gait specialist” event of the Pedorthic Association of Canada, Calgary, AB. October 2016.
- *New Biomechanical Technologies to Improved Sport Performance*. Workshop presentation at the Saskatchewan Coaches Association of Saskatchewan Conference, Saskatoon, SK. May 2014.
- *Prezi*. Workshop presentation at the University of Regina Kinesiology and Health Studies Graduate Student Society Workshop Series, Regina, SK. March, 2014.
- *Lessons Learned: Advice from an Experienced T.A.* Workshop presentation at the University of Regina Graduate Teaching Development Days, Regina, SK. September, 2013.
- *The Hiring Process*. Workshop presentation for the University of Regina Kinesiology and Health Studies Graduate Student Society Workshop Series, Regina, SK. March, 2013.

## VOLUNTEER AND COMMITTEE INVOLVEMENT

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<b>Mentor</b> Kinesiology Mentorship Program	September 2019 - Present
<b>Mentor</b> NSERC Peer Mentorship Program	September 2017
<b>Evaluator - Awards Committee</b> University of Calgary, Graduate Students' Association	2016 - 2018
<b>Member at Large - Kinesiology Graduate Students' Association</b> University of Calgary, Kinesiology	2016 - 2018
<b>Member at Large - Kinesiology &amp; Health Studies Graduate Students' Society</b> University of Regina, Kinesiology & Health Studies	2012 - 2013
<b>Hiring Committee</b> University of Regina, Kinesiology & Health Studies	January 2013 - March 2013

## COMMUNITY AND VOLUNTEER ACTIVITIES

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<b>Volunteer – Drop-In ESL Tutor</b> Calgary Immigration Educational Services	August 2017 - February 2018
<b>Assistant Coach</b> The Canadian Tire First Shift Hockey Program	November 2016 - February 2017
<b>Assistant Coach</b> Regina Minor Football & Regina Riot Football, WWCFLL	August 2012 - October 2014

## REFERENCES

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Dr. Darren Stefanyshyn  
Professor  
Faculty of Kinesiology  
University of Calgary, Calgary, Alberta, Canada  
403-220-8637  
[stefanys@ucalgary.ca](mailto:stefanys@ucalgary.ca)

Dr. Reed Ferber  
Professor  
Faculties of Kinesiology and Nursing  
University of Calgary, Calgary, Alberta, Canada  
403-210-6468  
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Dr. Dave Paskevich  
Associate Professor and Associate Dean (Academic)  
Faculty of Kinesiology  
University of Calgary, Calgary, Alberta, Canada  
306-220-3535  
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Faculty of Kinesiology & Health Studies  
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