

CURRICULUM VITAE  
Kody R. Campbell, MSc.

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**CONTACT INFORMATION**

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2207 Stallings-Evans Sports Medicine Center  
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**EDUCATION**

**The University of North Carolina at Chapel Hill, Chapel Hill, NC, United States**

Doctor of Philosophy in Human Movement Sciences, expected May 2018  
Department of Allied Health Sciences, School of Medicine  
Advisor: Dr. Jason P. Mihalik

**The University of Western Ontario, London, ON, CA**

Masters of Science in Kinesiology, Biomechanics, Aug 2014  
Department of Kinesiology, School of Health Sciences  
Thesis Topic: *Quantifying and Comparing the Head Impact Biomechanics of Different Player Positions for Canadian University Football*  
Advisor: Dr. James P. Dickey

**The University of Western Ontario, London, ON, CA**

Bachelor of Science, Honours Specialization in Kinesiology  
Department of Kinesiology, School of Health Sciences

**PROFESIONAL EXPERIENCE and WORK HISTORY**

**The University of North Carolina at Chapel Hill, Chapel Hill, NC, United States**

*Department of Allied Health Sciences, School of Medicine*  
*Research Assistant, Aug 2014 to present*  
*Department of Exercise and Sport Science, College of Arts and Sciences*  
*Instructor/ Teaching Assistant, Aug 2015 to present*  
*Academic Support Program for Student Athletes, Athletic Department*  
*Academic Tutor, Spring 2015 to present*

**The University of Western Ontario, London, ON., CA**

*Department of Kinesiology, School of Health Sciences*  
*Research Assistant, Sept 2012 to Aug 2014*  
*Department of Kinesiology, School of Health Sciences*  
*Teaching Assistant, Sept 2012 to Aug 2014*

## **ACADEMIC HONOURS AND AWARDS**

- Aug 2014  
and  
**Doctoral Merit Assistantship**, Demonstrating strong academic achievements showing the most promise for success in graduate education.  
Department of Allied Health Sciences, University of North Carolina
- 2012-2014  
**Western Graduate Research Scholarship**, Academic achievement scholarship  
Faculty of Health Sciences, University of Western Ontario
- 2012-2013  
**Graduate Teaching Assistant Award Nomination**, Student nominated award in recognition of outstanding teaching  
Faculty of Health Sciences, University of Western Ontario
- Apr 2012  
**Academic All-Canadian**, Recognition of academic excellence while competing in Canadian Intercollegiate Sport (CIS) varsity sport (football)  
CIS, University of Western Ontario
- Apr 2012  
**Dean's Honour List**, Recognition of academic excellence  
Faculty of Health Sciences, University of Western Ontario
- Dec 2011  
**Dorothy Thompson Bursary**, Recognition of academic excellence and demonstration of leadership qualities while competing in intercollegiate sport  
University of Western Ontario
- Dec 2011  
**J.C. Hawlik Award**, Recognition of academic excellence and demonstration of leadership qualities while competing for the varsity football team  
University of Western Ontario
- 2007-2010  
excellence  
**Jack Cowin Football Scholarship**, Recognition of academic and athletic while competing for the varsity football team

## **SCHOLARSHIP**

### ***Refereed Articles (3)***

Kuo, C, Wu, LC, Hammor, BT, Luck, JF, Cutcliffe, HC, Lynall, RC, Kait, JR, **Campbell, KR**, Mihalik, JP, Bass, CR., Camarillo, DB., Effect of the mandible on mouthguard measurements of head kinematics. *J Biomech*, 2016. **49**(9): p. 1845-53.

**Campbell KR**, Warnica MJ, Levine IC, Brooks JS, Laing AC, Burkhart TA, et al. Laboratory Evaluation of the gForce Tracker™, a Head Impact Kinematic Measuring Device for Use in Football Helmets. *Annals of biomedical engineering*. 2015:1-11.

Kelleher, LK, **Campbell, KR**, and Dickey, JP (2013) Biomechanical Research on Bowed String Musicians: A Scoping Study. *Medical problems of performing artists*. 28(4), 212.

### ***Refereed Presentations and Published Abstracts (15)***

Wasserman EB, Mihalik JP, **Campbell, KR**, Combs, PR, Fraser MA, Grand EE, Nocera, M, Register-Mihalik JK, Guskiewicz KM, & Marshall SW. Innovative Behavior Modification Strategies to Reduce Concussion Risk in High School American Football Athletes. *2016 American Public Health Association Annual Meeting and Expo*, Denver, CO, US (October 29 – Nov 2, 2016)

Wasserman EB, Mihalik JP, **Campbell, KR**, Combs, PR, Fraser MA, Grand EE, Nocera, M, Register-Mihalik JK, Guskiewicz KM, & Marshall SW. Innovative Behavior Modification Strategies to Reduce Concussion Risk in High School American Football Athletes. *5<sup>th</sup> International Consensus Conference on Concussion in Sport*, Berlin, Germany (October 27 – 28, 2016)

**Campbell, KR**, Mihalik JP, Tripathi, BB, Espindola D, & Pinton GF. Simulations of recently observed shear shock wave physics amplify local brain acceleration by a factor of 40 in head drop experiments – future implications for concussion. *5<sup>th</sup> International Consensus Conference on Concussion in Sport*, Berlin, Germany (October 27 – 28, 2016)

Kuo C, Wu L, Fanton M, Luck JF, Cutcliffe HC, Lynall RC, **Campbell KR**, Mihalik JP, Bass CR, & Camarillo DB. Strain-based validation of an instrumented mouthguard. *2016 Biomedical Engineering Society Annual Meeting*, Minneapolis, MN., US (October 5 - 8, 2016).

**Campbell KR**, Lynall RC, Luck JF, Cutcliffe HC, Kait JR, Kuo C, Wu L, Camarillo DB, Bass CR, & Mihalik JP. Impact detection rate analysis on four head impact sensors. *2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Baltimore, MD, US (June 25, 2016)

Lynall RC, Wasserman EB, **Campbell KR**, Dompier TP, Kerr ZY. Comparison of concussion injury mechanisms and contact type between youth, high school, and college football players. *2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Baltimore, MD, US (June 25, 2016)

**Campbell KR**, Lynall RC, Luck JF, Cutcliffe HC, Kait JR, Kuo C, Wu L, Camarillo DB, Bass CR, & Mihalik JP. Impact detection rate analysis on four head impact sensors. *Human Movement Science Symposium*, Chapel Hill, NC, US, (February 26, 2016)

Cutcliffe HC, Luck JF, Kait JR, Kuo C, Wu L, Lynall RC, **Campbell KR**, Camarillo DB, Mihalik JP, & Bass CR. (2015). Validation of an ear-based measurement system for head impact. *2015 Biomedical Engineering Society Annual Meeting*, Tampa, FL., US (October 8, 2015).

Kuo C, Wu L, Luck JF, Cutcliffe HC, Lynall RC, Kait JR, **Campbell KR**, Mihalik JP, Bass CR, & Camarillo DB. (2015). Ex vivo evaluation of an instrumented mouthguard. *2015 Biomedical Engineering Society Annual Meeting*, Tampa, FL., US (October 8, 2015).

**Campbell KR**, Lynall RC, Luck JF, Cutcliffe HC, Kait JR, Kuo C, Wu L, Camarillo DB, Bass CR, & Mihalik JP. (2015). Laboratory evaluation of the xPatch: Differences in outputs between the left and

right patch in helmeted head impacts. *2015 Biomedical Engineering Society Annual Meeting*, Tampa, FL., US (October 8, 2015).

**Campbell KR**, & Mihalik JP. (2015). The effect of cervical muscle strength and head impact location on impact biomechanics in youth ice hockey players. *2015 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, St. Louis, MO, US (June 25, 2015).

**Campbell KR**, Lynall RC, Luck JF, Cutcliffe HC, Kait JR, Kuo C, Camarillo D, Bass CR, Mihalik JP. Laboratory evaluation of the xPatch: Differences in outputs between the left and right patch in helmeted head impacts. *Human Movement Science Symposium*, Chapel Hill, NC, US, (April 17, 2015)

**Campbell, KR** and Dickey, JP Quantifying and Comparing the Head Impact Biomechanics of Different Player Positions for Canadian University Football. *Faculty of Health Sciences Research Day*. London, ON, CA, (March 25, 2014)

**Campbell, KR**, Kelleher, LK, and Dickey, JP Biomechanical Research on Bowed String Musicians: A Scoping Study. *31<sup>st</sup> Annual Symposium of Medical Problems in Performing Artists*, Snowmass, CO, US, (July 23, 2013)

**Campbell, KR** and Dickey, JP Biomechanical Analysis of Head Impacts to Canadian University Football Players of Different Positions. *Ontario Biomechanics Conference*. Barrie, ON, CA, (March 15-17, 2013)

### ***Invited Scholarly Presentations (1)***

Mihalik JP, Lynall RC & **Campbell KR**. Nata advanced track seminar: Head Impact Biomechanics – Engineering Safe Sports. *2016 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Baltimore, MD, US (June 22, 2016)

### ***Research and Academic Service***

#### *Journal Peer Reviewer*

American Journal of Sports Medicine

## **TEACHING RECORD**

### ***Curricular Experience***

The University of North Carolina at Chapel Hill, Chapel Hill, NC., US

*Department of Exercise and Sport Science*

Instructor, Emergency Care of Injuries and Illness (EXSS 188), Fall 2016

Instructor, Human Anatomy Lab (EXSS 275L), Spring 2016

Teaching Assistant, Biomechanics of Sport (EXSS 385), Fall 2015

The University of Western Ontario, London, ON., CA

*Department of Kinesiology*

Teaching Assistant, Functional Human Anatomy (Kin 2221), Spring 2014

Teaching Assistant, Functional Human Anatomy (Kin 2221), Fall 2013

Teaching Assistant, Functional Human Anatomy (Kin 2221), Spring 2013  
Teaching Assistant, Functional Human Anatomy (Kin 2221), Fall 2013

### ***Graduate Thesis Committees (2)***

Ford JM. Functional movement assessments as a predictor for head impact biomechanics. May 2017 (graduate, anticipated). *Primary doctoral student, committee member.*

Langton M. Comparing ankle range of motion, arthrokinematic posterior glide motion, and muscular stiffness of the triceps surae in division 1 female gymnasts to division 1 female non-jumping athletes. May 2016. *Primary doctoral student, committee member.*

### **GRANT ACTIVITY**

#### ***Previous Support (1)***

Dickey JP, **Campbell, KR**. Validation of a New System Measuring Head Impact Biomechanics. NSERC Engage Grant: Co-Principal Investigator Amount: \$20,466 (Funded February 1, 2014 – July 31, 2014) Submitted: December 2013

#### ***Support Not Funded (1)***

Lynall R, Cutcliffe H, **Campbell KR**, Mihalik J, Bass C, Luck J. Head impact: How do we determine ‘bad’? Kenan-Biddle Partnership (Duke University and the University of North Carolina at Chapel Hill) Role: Co-Principal Investigator Amount: \$5,000 (Not funded) Submitted: October 2014

### **PROFESSIONAL ORGANIZATIONS/CERTIFICATIONS**

#### **American College of Sports Medicine**

Aug 2015 – Present

Membership #761973

#### **American Red Cross Instructor of CPR/AED for Professional Rescuers and Health Care Providers**

Aug 2014 – Present