

Curriculum Vitae
Elizabeth F. Teel, M.S.

CONTACT INFORMATION

Matthew A. Gfeller Sport Related Traumatic Brain Injury Research Center
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EDUCATION

The University of North Carolina at Chapel Hill (in progress)
Chapel Hill, NC
Doctor of Philosophy (Ph.D.)
School of Medicine, Department of Allied Health, Human Movement Science
Curriculum
Dissertation: The Effect of ACTIVE Training on Clinical and Physiological Outcomes in Healthy and Concussed College-Aged Participants

The Pennsylvania State University 2013
University Park, PA
Master of Science (M.S.),
College of Health and Human Development, Department of Kinesiology,
Concentration in Sport and Exercise Psychology
Thesis: Differential Sensitivity of ImPACT and Virtual Reality Testing Modalities in the Assessment of Concussion: An EEG Study

The University of North Carolina at Chapel Hill 2011
Chapel Hill, NC
Bachelor of Arts (B.A.)
College of Arts and Science, Department of Exercise and Sport Science (Major)
Thesis: The Effects of a Dual-Task in Balance Performance and Cognitive Function Compared to a Single Balance or Cognitive Function Task
College of Arts and Science, Department of Chemistry (Minor)

PROFESSIONAL EXPERIENCE

The University of North Carolina at Chapel Hill, Chapel Hill, NC
College of Arts and Sciences, Department of Exercise and Sport Science
Lecturer, January 2014 to present
Teaching Assistant, August 2013 to present
Doctoral Research Assistant, July 2013 to present

The University of North Carolina at Chapel Hill, Chapel Hill, NC
Athletic Department, Academic Support Program for Student-Athletes
Tutor, August 2014 to August 2015

The Pennsylvania State University, University Park, PA
College of Health and Human Development, Department of Kinesiology
Teaching Assistant, August 2011 to May 2013
Doctoral Research Assistant, July 2011 to June 2013

HONORS, AWARDS, & SCHOLARSHIPS

Graduate School Transportation Grant The University of North Carolina at Chapel Hill, \$1,000	2016
Departmental Travel Award, Exercise and Sport Science The University of North Carolina at Chapel Hill, \$300	2016
Penn State University Fund for Excellence in Graduate Recruitment Award The Pennsylvania State University, \$2,295	2011
Graduating With Highest Honors The University of North Carolina at Chapel Hill	2011
Varsity Letter UNC Women's Rowing	2011
Atlantic Coast Conference (ACC) Academic Honor Roll The University of North Carolina at Chapel Hill	2009 – 2011

BIBLIOGRAPHY

Books and Chapters (2)

1. **Teel EF** & Guskiewicz KM. (2015). The Potential Contribution of Objective Tests to the Diagnosis of Concussion. *Concussion and Traumatic Encephalography*. New York, NY: Cambridge University Press Textbook. (In Production).
2. Ray WJ, **Teel EF**, Gay MR, & Slobounov SM. (2014). Feasibility of Electroencephalography for Direct Assessment of Concussion. *Concussion in Athletics: From Brain to Behavior*. New York, NY: Springer Science+Business Media.

Referred Papers/Articles

1. Lynall RC, Clark MD, Grand EE, Stucker JC, Littleton AC, Aguilar AJ, Petschauer MA, **Teel EF**, & Mihalik JP. Head Impact Biomechanics in Women's College Soccer. *Medicine and Science in Sports and Exercise*. 2016, 48(9):1772-1778.
2. **Teel EF**, Gay MR, Johnson BA, & Slobounov SM. Determining Sensitivity/Specificity of a Virtual Reality Based Neuropsychological Tool for Detecting Residual Abnormalities following Sport-Related Concussion. *Neuropsychology*. 2016:30(4):474-83.

3. Guskiewicz KM & **Teel EF**. Clinical Management of Sport-Related Concussion: Developing a Roadmap to a Successful Clinical Outcome. *Kinesiology Review*. 2015;4(2):156-168.
4. **Teel EF**, Gay MR, Arnett PA, & Slobounov SM. Differential sensitivity between a virtual reality (VR) balance module and clinically used concussion balance modalities. *Clinical Journal of Sport Medicine*. Published online before print October 26, 2015.
5. Gay MR, Ray WJ, Johnson BA, **Teel EF**, Geronimo AM, & Slobounov SM. Feasibility of EEG Measures in Conjunction with Light Exercise for Return-to-Play Evaluation after Sport-Related Concussion. *Developmental Neuropsychology*. 2015;40(4):248-253.
6. Guskiewicz KM, **Teel EF**, & McCrea MM. Concussion: Key stakeholders and multidisciplinary participation in making sports safe. *Neurosurgery*. 2014;74:113-118.
7. **Teel EF** & Slobounov SM. Validation of a Virtual Reality Balance Module for Use in Clinical Concussion Assessment and Management. *Clinical Journal of Sports Medicine*. 2015;25(2):144-148.
8. Mihalik JP, Lynall RC, **Teel EF**, & Carneiro KA. Concussion management in soccer. *Journal of Sport and Health Science*. 2014;3(4):307-313.
9. **Teel EF**, Ray WJ, Geronimo AM, & Slobounov S.M. Residual Alterations of Brain Electrical Activity in Clinically Asymptomatic Concussed Individuals: An EEG Study. *Clinical Neurophysiology*. 2014;125(4):703-707.
10. Slobounov SM, **Teel EF**, & Newell KM. Modulation of cortical activity in response to visually-induced postural perturbation: Combined VR and EEG study. *Neuroscience Letters*. 2013;28:546-549.
11. **Teel EF**, Register-Mihalik JK, Blackburn JT, & Guskiewicz KM. Balance and cognitive performance during a dual-task: Preliminary implications for use in concussion assessment. *Journal of Science in Sport Medicine*. 2012;16(3):190-194.

Refereed Papers/Articles in Press

Refereed Papers/Articles in Review

1. **Teel EF**, Guskiewicz KM, Marshall SW, Shankar V, & McCrea M. Effect of on-field and intrinsic factors on acute concussion recovery in athletes. (2016). *Journal of Athletic Training*. (In Review).

2. Mihalik JP, **Teel EF**, Lynall RC, & Wasserman EB. Balance Error Scoring System Reliability and Validity when Performed with Ice Skates. (2016). *Clinical Journal of Sport Medicine*. (In Review).

Referred Presentations/Published Abstracts

1. **Teel EF**, Wasserman EB, Register-Mihalik JK, & Mihalik JP (2016, October). *Baseline symptoms are associated with post-concussion symptom frequency and severity in college and high school athletes*. To be presented at the 5th International Consensus Conference on Concussion, Berlin, Germany.
2. Kramer MR, Wasserman EB, **Teel EF**, & Mihalik JP (2016, October). *Effect of protective helmets on vision and sensory performance*. To be presented at the 5th International Consensus Conference on Concussion, Berlin, Germany.
3. **Teel EF**, Wasserman EB, Marshall SW, & Mihalik JP. (2016, June). *The Effect of Sex, Age Group, Position, Event Type, and Location on Head Impact Biomechanics in Youth Ice Hockey Players*. To be presented at the National Athletic Trainer's Association Annual Meeting, Baltimore, MD.
4. Pexa BS, Myers JB, Ryan ED, **Teel EF**, Rucinski TJ, & Hibberd EE. (2016, June). *Diagnostic Ultrasound of the Infraspinatus to Track Recovery following Pitching in Baseball Pitchers*. To be presented at the American College of Sports Medicine Annual Meeting, Boston, MA.
5. Pexa BS, Myers JB, Ryan ED, **Teel EF**, Rucinski TJ, & Hibberd EE. (2016, June). *Recovery of Infraspinatus Cross-Sectional Area, Echo Intensity, and Glenohumeral Range of Motion Following Overhand Pitching*. To be presented at the National Athletic Trainer's Association Annual Meeting, Baltimore, MD.
6. **Teel EF**, Wasserman EB. & Mihalik JP. (2015, November). *The Association Between Head Impact Severity and Season Timing in Youth Ice Hockey Players*. Poster presented at the John B. Graham Student Research Day, Chapel Hill, NC.
7. **Teel EF**, Lynall RC, Appelbaum LG, & Mihalik JP. (2015, June). *The Effect of Sex, Sport, and Concussion History on Visual and Sensory Performance in Collegiate Athletes*. Oral presentation at the National Athletic Trainer's Association Annual Meeting, St. Louis, MO.
8. **Teel EF**, Lynall RC, & Mihalik JP. (2014, June). *Concurrent Validity of the Balance Error Scoring System Performed with Skates*. Poster presented at the National Athletic Trainer's Association Annual Meeting, Indianapolis, IN.
9. **Teel EF**, Lynall RC, & Mihalik JP. (2014, February). *Concurrent Validity of the Balance Error Scoring System Performed with Skates*. Oral presentation given at the HMSC Day Symposium, Chapel Hill, NC.

10. **Teel EF**, Register-Mihalik JK, Blackburn JT, & Guskiewicz KM. (2011, April). *Balance and cognitive performance during a dual-task: Preliminary implications for use in concussion assessment*. Poster presented at the 12th Annual Celebration of Undergraduate Research Symposia, Chapel Hill, NC.

Non-Refereed Publications and Blogs

1. **Teel EF**. Concussion: Key Stakeholders and Multidisciplinary Participation in Making Sports Safe. <https://uncexss.wordpress.com/2015/09/08/concussion-key-stakeholders-and-multidisciplinary-participation-in-making-sports-safe/>

Invited Scholarly Presentations

1. **Teel EF**. (2016, June). Benefits of Incorporating Virtual Reality into Clinical Concussion Assessment and Management. Oral presentation at the National Athletic Trainer's Association Annual Meeting, Baltimore, MD.
2. **Teel EF**. (2015, November). *Concussion: It's Not an Alternate Universe, Just Virtual Reality*. Oral presentation at the North Carolina Athletic Trainer's Association Meeting, Winston-Salem, NC.
3. **Teel EF**. (2015, March). *Concussion: It's Not an Alternate Universe, Just Virtual Reality*. Oral presentation at the 3rd Matthew Gfeller Neurotrauma Symposium, Chapel Hill, NC.

MENTORSHIP

Master's Thesis Committees

Department of Exercise and Sport Science, The University of North Carolina at Chapel Hill

Dubas R. Comparison of SCAT-3 Measures during Anaerobic and Aerobic Fatigue States. May 2017 (Anticipated).

Busque K. The Effect of Soccer Heading on the SCAT-3 in Recreational College Soccer Players. May 2016 (Anticipated).

Pexa B. Recovery of Infraspinatus Cross-Sectional Area, Echo Intensity, and Glenohumeral Range of Motion following Overhand Pitching. May 2015.

Undergraduate Thesis Committees

Department of Exercise and Sport Science, The University of North Carolina at Chapel Hill

Morrisoe K. The Effect of Athletic Headgear on Visual and Sensory Performance in Female Athletes. May 2017 (Anticipated).

Cabell G. The Effect of Exercise on UCH-L1 in Healthy and Concussed Collegiate Athletes. May 2017 (Anticipated).

Kramer M. Effect of Athletic Headgear on Visual and Sensory Performance. May 2016.

Undergraduate Independent Studies

Department of Kinesiology, Pennsylvania State University

Griswold J. Electroencephalography and the YMCA bike protocol: Processing and analysis. June 2013.

Derise P. Electroencephalography methodology, processing, and analysis. May 2012.

RESEARCH FUNDING

Current Support

2016-2017 Teel EF & Mihalik JP

The Effect of ACTIVE Training on Clinical and Physiological Outcomes in Healthy and Concussed Participants

National Athletic Trainer's Association Doctoral Grant

Role: PI

Amount: \$2,500.00

2016-2017 Teel EF & Mihalik JP

The Effect of ACTIVE Training on Healthy and Concussed Participants

American College of Sports Medicine Clinical Sports Medicine Endowment

Role: PI

Amount: \$5,000.00

Previous Support

Summer 2016 **Teel EF** & Mihalik JP

The Effect of ACTIVE Training on Clinical and Physiological Outcomes in Healthy and Concussed College-Aged Participants

UNC-CH Graduate School Summer Fellowship

Role: PI

Amount: \$4,000.00

Support Not Funded

2016-2017 **Teel EF**, Mihalik JP, Register-Mihalik JK, et al.

The Effect of ACTIVE Training on Clinical and Physiological Outcomes in Healthy and Concussed College-Aged Participants

P.E.O. Scholar Award

Role: PI

Amount: \$15,000.00

2016-2017 **Teel EF**, Mihalik JP, Register-Mihalik JK, et al.
The Effect of ACTIVE Training on Clinical and Physiological Outcomes in Healthy and Concussed College-Aged Participants

North Carolina Translational & Clinical Sciences Institute 2k Award

Role: PI

Amount: \$2,000.00

2015-2017 **Teel EF**, Mihalik JP, Guskiewicz KM, et al.

Can the ACTIVE rehabilitation shorten concussion recovery?

National Institutes of Health–National Institute of Neurological Disorders and Stroke (NIH-NINDS) F31

Role: PI

Amount: \$78,712.00

PROFESSIONAL SERVICE

Research Service

Journal Peer Review

American Journal of Sports Medicine

The Journal of Applied Sport Psychology

Journal of Athletic Training

Journal of Clinical and Translational Research

Departmental Service

HMSC

HMSC Research Symposium Planning Committee, 2015

HMSC Lunch Series Organizer, 2015

Community Engagement

College Engagement

Carolina Outreach, 2010-2011

OTHER EXPERIENCE

Professional Organizations and Certifications

Organizations

National Athletic Trainer Association, *Member*

November 2015-Present

Membership Number: 72490

North Carolina Translations & Clinical Sciences Institute, *Member*

November 2015-Present

American College of Sports Medicine, *Member*

April 2015-Present

Membership Number: 756068

Certifications

American Red Cross CPR & AED, *Certified Professional Rescuer*
August 2014-Present