

## **STEVEN P. BROGLIO**

### *Office:*

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### **LEADERSHIP**

#### ***Research***

*More than twenty years of extensive neuroscience research underpinned by robust support from a variety of institutions, including local communities, national organizations, and federal agencies committed to advancing scientific understanding and fueling groundbreaking discoveries on the identification, diagnosis and management of concussion.*

- Secured \$113M in grant support (\$105M as PI/coPI)
- Managed >350 full and part time research employees from 30 institutions across the US
- >275 peer reviewed manuscripts
  - h-index = 77 (Google Scholar 10/2024)
  - #1 concussion subject matter expert (<https://expertscape.com/>)

#### *Founding director Michigan Concussion Center*

- Secured seed funding (>\$5M) and 3 tenure track lines
- Grew center membership to >175 faculty, staff, and trainees across 25 campus units
- Developed a distribution list of approx. 22,000 researchers, clinicians, trainees and advocates
- Facilitated >\$2million in development gifts

#### ***Teaching and Mentoring***

*I have continually engaged and inspired graduate and undergraduate students through innovative teaching methods and commitment to student success by creating a supportive and inclusive learning environment that fosters critical thinking, collaboration, and the continuous pursuit of knowledge.*

- Primary mentor or committee member for 41 MS and PhD students

#### ***Service and Administration***

*My dedication to higher education is evident through a progressive escalation in my administrative roles, during which I have sought to refine and advance policies, streamline procedures, and enrich the academic atmosphere. Throughout my career, I have been focused on enhancing the educational experience, research environment, and community engagement, ensuring that each venture under my purview not only meets, but exceeds the expectations of academic excellence and societal contribution.*

University of Michigan, School of Kinesiology, Associate Dean of Graduate Affairs: 2020 to present

- 78% increase in graduate student applications
- 265% increase in enrolled graduate students
- 82% increase in Office of Graduate Affairs budget and Office staff by 50%
- Development of Master of Science degree programs in Intraoperative Neuromonitoring (anticipated Fall 2026) and Sport Management (online; anticipated Fall 2027)
- #1 ranked graduate program - National Academy of Kinesiology (2023)

#### ***Diversity, Equity, Inclusion and Justice***

*Dedication to fostering a collegial environment within and outside the University where diversity is celebrated, equity is pursued, and inclusion is the norm, ensuring that everyone has an opportunity to contribute and thrive. My actions reflect a steadfast commitment to these principles by working proactively to dismantle barriers and create pathways for the success and empowerment.*

## EDUCATION

**University of Georgia:** Athens, Georgia: 2006

Doctorate of Philosophy, Exercise Science: Measurement and Evaluation concentration

Dissertation: *Reliability of computer-based concussion assessment programs*

**University of Pittsburgh:** Pittsburgh, Pennsylvania: 2002

Master of Science, Health and Rehabilitation Science

Thesis: *The acute effect of rotational heading on measures of postural stability*

**University of North Carolina at Chapel Hill:** Chapel Hill, North Carolina: 2000

Bachelor of Arts, Exercise and Sport Science

Highest Honors and Highest Distinction Graduate

Thesis: *The cumulative effect of soccer on postural stability and cognitive function*

**The Ohio State University:** Columbus, Ohio

Bachelor of Science, Molecular Genetics (degree not conferred)

## PROFESSIONAL EXPERIENCE

**University of Michigan**

School of Kinesiology

Associate Dean of Graduate Affairs: 2020 to present

Founding Director, Michigan Concussion Center: 2018 to present

Professor: 2018 to present

Associate Professor: 2013 to 2018

Assistant Professor: 2011 to 2013

Director, NeuroTrauma Research Laboratory: 2011 to present

School of Medicine

Department of Neurology

Adjunct Professor: 2019 to present

Adjunct Associate Professor: 2014 to 2019

Adjunct Assistant Professor: 2011 to 2014

Department of Physical Medicine and Rehabilitation

Adjunct Professor: 2019 to present

Adjunct Associate Professor: 2014 to 2019

Adjunct Assistant Professor: 2011 to 2014

Michigan Neuroscience Institute

Affiliate Member: 2022 to present

Neuroscience Graduate Program Faculty: 2021 to present

University of Michigan Injury Prevention Center

Concussion Content Lead: 2016 to present

Member: 2013 to present

Institute for Healthcare Policy and Innovation

Leadership Team: 2022-present

Investigator Member: 2014 to present

***University of Illinois at Urbana-Champaign***

Department of Kinesiology and Community Health

Adjunct Assistant Professor: 2011 to 2017

Director, Graduate Athletic Training: 2008 to 2011

Assistant Professor: 2006 to 2011

Director, Neurotrauma Research Laboratory: 2006 to 2011

Director, Undergraduate Athletic Training Education Program: 2006 to 2011

Center for Advanced Study

Beckman Fellow: 2010 to 2011

Center on Health, Aging, and Disability

Affiliate Member: 2008 to 2011

***University of Georgia***

Department of Kinesiology

Clinical Coordinator, Undergraduate Athletic Training Education Program: 2003 to 2006

Graduate Research Assistant (Athletic Training Research Laboratory): 2002 to 2006

Approved Clinical Instructor of Athletic Training Students: 2003 to 2006

***University of Pittsburgh***

Neuromuscular Research Laboratory

Research Assistant: 2001

**TEACHING EXPERIENCE**

***University of Michigan***

School of Law

Course Instructor      Concussion: Reducing Brain Injuries in Youth Football

School of Kinesiology

Course Instructor:      Athletic Training Administration  
Pharmacology for the Allied Health Professional  
Mild Traumatic Brain Injury in Sport  
Special Topics in Sports Medicine

***University of Illinois at Urbana-Champaign***

Department of Kinesiology and Community Health

Course Instructor:      Advanced Assessment of Athletic Injuries - Lower Extremity  
Advanced Assessment of Athletic Injuries - Upper Extremity  
Capstone Proficiency of Athletic Training  
Special Topics - Sport Concussion  
Issues in Sports Medicine

***University of Georgia***

Department of Exercise Science

Course Instructor:      Recognition and Evaluation of Athletic Injuries - Upper Extremity  
Introduction to Athletic Training Lab  
Clinical Experience in Athletic Training I, II, III, IV

Workshops:      Athletic Training Student Workshop:  
Co-director: 2004 to 2006

Cramer Japan Athletic Training Workshop:  
Co-director: 2004  
Coordinator and lecturer: 2003

***University of Pittsburgh***

Department of Health and Rehabilitation Science

Course Instructor: Athletic Training Practicum  
Basic Athletic Training Lab  
Teaching Assistant: Basic Athletic Training

***University of North Carolina at Chapel Hill***

Department of Exercise and Sport Science

Teaching Aid: Human Anatomy Cadaver Lab, 1999

**CLINICAL EXPERIENCE**

***University of Georgia***

Graduate Assistant Certified Athletic Trainer - Cheerleading: 2004

***University of Pittsburgh***

Graduate Assistant Certified Athletic Trainer - Baseball: 2000 to 2002  
Graduate Assistant Certified Athletic Trainer - Women's Soccer: 2002

***University of North Carolina at Chapel Hill***

Athletic Training Student: 1998 to 2000

Sports: football, track & field, field hockey, baseball, Southeast Raleigh High School

***Athletic Summer Camps***

Certified Athletic Trainer

University of North Carolina - Field Hockey: 2000 to 2003

Carnegie Mellon University - Soccer: 2001

Athletic Training Student

University of North Carolina - Field Hockey, Wrestling: 1999

***New York Football Giants***

Training Camp Intern: 1999

## SCHOLARSHIP

### Refereed Journal Publications

Pandeya HS, Garcia GGP, **Broglia SP**, McAllister TW, McCrea MA, Pasquina PF, Lempke LB, CARE Consortium Investigators, Comprehensive Assessment under Constrained Time (CompACT): An operationally constrained machine learning approach, *IISE Transactions* (in review).

Czerniak LL, Garcia GGP, Genthe MW, Xia Y, Lavieri MS, McCrea MA, McAllister TW, Pasquina PF, Liebel SW, **Broglia SP**, CARE Consortium Investigators, Prediction of symptom burden, cognitive status, and risk of psychological distress in NCAA athletes with sport-related concussion(s): Findings from the NCAA-DoD CARE Consortium, *Annals of Biomedical Engineering* (in review)

Huntzinger KJ, Caccese JB, Law CA, Wittmer RM, Buckley TA, **Broglia SP**, McAllister TW, McCrea MA, Pasquina PF, Schneider ALC, CARE Consortium Investigators, Associations of collegiate football career and incident concussion with players' health: A longitudinal study from the CARE Consortium, *Sports Medicine* (in review).

Eagle SR, Huber D, McCrea M, Okonkwo DO, McAllister T, Pasquina P, **Broglia S**, Meier T, CARE Consortium Investigators, Effect of obese body mass index on clinical outcomes and inflammatory blood biomarkers following sport-related concussion in collegiate athletes and military cadets: Findings from the NCAA-DOD CARE Consortium, *Journal of Neurology, Neurosurgery, and Psychiatry* (in review).

Bretzin AC, Zynda AJ, Wiebe DJ, **Broglia SP**, Collins CL, Acute concussion management of high school athletes with access to athletic training services, *Pediatrics* (in review).

Hunzinger KJ, Caccese JB, Law CA, Wittmer RM, Buckley TA, **Broglia SP**, McAllister TW, McCrea MA, Pasquina PF, Schneider ALC, CARE Consortium Investigators, Associations of collegiate football career and incident concussion with players' health: A longitudinal study from the CARE Consortium, *British Journal of Sports Medicine* (in review)

Syrydiuk RA, Bretzin AC, Goldstick JE, **Broglia SP**, Wiebe DJ, All-cause mortality between National Hockey League players and the general population: A retrospective cohort study, *American Journal of Epidemiology* (in review).

Memmini AK, Mosesso KM, Li C, Perkins SM, Boltz AB, Lempke LB, Syrydiuk RA, Ren J, Harezlak J, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP** & CARE Consortium Investigators, Effects of concussion history and sport exposure across a collegiate athletic career: A CARE Consortium study, *Sports Medicine*, (in review).

Dybing K, McAllister TW, W YC, McDonald BC, **Broglia SP**, Mihalik JP, Guskiewics KM, Goldman JT, Jackson JC, Saykin AJ, Risacher SL, Nudelman KMH, Association of Alzheimer's disease polygenic risk score with concussion severity and recovery metrics, *Sports Medicine* (in review).

Boltz AJ, Lempke LB, Syrydiuk RA, Memmini AK, Chengyun L, Ren J, Perkins SM, Harezlak J, Mosesso KM, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP**, CARE Consortium Investigators, Head impact exposures and health outcomes in former collegiate athletes: A CARE Consortium study, *JAMA Neurology* (in review).

Aderman MJ, Andriescu R, Malvasi SR, Roach MH, Ross JD, Svoboda SJ, Robb J, McGinty G, Jackson J, Campbell D, Estevez CA, Brodeur RM, VanPelt K, Susmarski A, **Broglia SP**, McCrea MA, McAllister T, Pasquina PF, Cameron KL, Association between sleep duration and recovery trajectories after a concussion in United States service academy cadets and midshipmen, *Neurotrauma Reports* (in review).

Petrosian A, Casas R, Twyford J, McCrea M, McAllister T, **Broglia S**, Kelly L, ADHD as a mediating variable for invalid baseline profiles on the ImpACT, *Neurodiversity* (in review).

Fasoranti ZO, Anderson M, Putukian M, Bodt B, Pasquina P, McCrea M, McAllister T, **Broglia SP**, Buckley TA, Sport participation type and cognitive function in collegiate student-athletes, *Archives of Clinical Neuropsychology* (in review).

Anderson MN, Gallo CA, Gill J, Caccese J, **Broglia SP**, McCrea M, McAllister TW, Pasquina P, Cameron KL, Malvasi SR, Trump JR, Roach MH, Jackson J, McGinty G, Buckley TA, Career duration does not predict baseline neuroinflammatory blood biomarkers in NCAA athletes or military cadets, *Journal of Athletic Training*, (in review).

Syrydiuk RA, Cairns J, Pankow MP, **Broglia SP**, Mrazik M, Emery CA, Down three: Does a reduction in on-field players influence head impacts in youth tackle football?, *Journal of Neurosurgery: Pediatrics* (in review).

McCrea MA, **Broglia SP**, W YC, Nencka AS, Koch KM, Saykin AJ, Brett BL, Klein AP, Meier TB, Pasquina P, McAllister TW, Advanced neuroimaging of concussion: Findings from the CARE Consortium, *Brain Injury Professional* (in review).

Muench JR, Sinson GP, Harezlak J, Rowson S, Duma S, Brooks A, Cameron K, Giza C, Goldman J, McGinty G, Rigger LD, Pasquina P, Broglia SP, McCrea M, McAllister T, Stemper B, Change in head impact exposure following return to play in concussed football athletes, *Medicine and Science in Sport and Exercise* (in review).

Stemper BD, Shah AS, Rowson S, Mihalik J, Rigger L, Harezlak J, Duma S, Pasquina P, **Broglia SP**, McAllister TW, McCrea M, CARE Consortium Investigators, Correlation of annual trends in preseason and regular season head impact exposure with season-long concussion incidence in NCAA Division I college football, *Journal of Athletic Training* (in review)

Garcia GGP, Lavieri MS, McAllister TW, McCrea MA, **Broglia SP**, CARE Consortium Investigators, Estimating the value of incorporating patient behavior in return-to-play from concussion: A behavior-learning POMDP approach, *Operations Research* (in review).

Rooks L, Giulia B, Pasquina P, **Broglia S**, McAllister T, McCrea M, Pestilli F, Port N, Protective and risk factors for persisting post concussion symptoms and return to play of NCAA collegiate athletes: Findings from the NCAA-DoD CARE Consortium, *Sports Medicine* (in press).

McAllister TW, **Broglia SP**, Perkins SM, Katz BP, Pasquina PF, McCrea MA, CARE Consortium Investigators, Characterizing the effects of concussion & head impact exposure: Design, methods & participant traits of the CARE 2.0 study, *Journal of Neuropsychiatry and Clinical Neurosciences* (in press).

Goeckner BD, Huber DL, Van Bortel K, Hill JM, Mannix R, Master CL, Brett BL, Pasquina PF, **Broglio SP**, McAllister TW, Harezlak J, McCrea MA, Meier TB, Associations of progesterone and estradiol with concussion and clinical outcomes in female athletes and cadets, *Medicine and Science in Sport and Exercise* (in press).

Jain D, Caccese JB, Boltz AJ, Buckley T, Cameron K, Chrisman SPD, Clugston JR, Eckner JT, Ermer E, Griffin Scott F, Harcum S, Hunt TN, Jannace KC, Kelly LA, Lempke LB, McDevitt J, Memmini A, Mozel A, Putukian M, Robb JB, Susmarski AJ, Strydiuk RA, **Broglio SP**, McAllister TW, McCrea MA, Pasquina PF, Master CL, Esopenko C, CARE Consortium Investigators, Factors associated with return to activity after concussion among female service academy members: Findings from the NCAA-DoD CARE Consortium, *Military Medicine*, (in press).

Glodowski K, Freemyer B, Myers J, Lee JS, **Broglio S**, Furutani T, Murata N, Stickley C, Swartz E, Hawaiian high school football player positional differences in helmet impact characteristics, *Journal of Athletic Training* (in press).

Swartz EE, Myers JL, Lee JS, **Broglio SP**, Furutani T, Oshiro R, Gioia GA, Brothers D, Glodowski K Meyer L, Rodriguez I, Murata N, Head impact exposure in Hawaiian high school football: influence of adherence rates on a helmetless tackling and blocking training intervention, *Journal of Athletic Training* (in press).

Pandey HS, Lahijanian B, Schmidt JD, Lynall RC, **Broglio SP**, McAllister TW, McCrea MA, Pasquina PF, Garcia GG-P, CARE Consortium Investigators, Quantifying the diagnostic utility of baseline testing: An analysis of the NCAA-DoD CARE Consortium dataset, *The American Journal of Sports Medicine*, 53(1):181-191, 2025.

Strydiuk RA, Boltz AJ, Lempke LB, van Pelt K, Balendran V, Scott K, Vesia M, Giordani B, McCrea MA, McAllister TW, **Broglio SP**, CARE Consortium Investigators, Association between magnetic resonance imaging use and recovery time following concussion: A CARE Consortium study, *Research in Sports Medicine*, 22:1-12, 2025.

Pestilli F, Bertò G, Rooks L, **Broglio S**, McAllister T, McCrea M, Pasquina P, Giza C, Brooks A, Mihalik J, Guskiewicz K, Goldman J, Duma S, Rowson S, Port N, Diffusion tensor analysis of white matter tracts is prognostic of persisting post-concussion symptoms in collegiate athletes, *NeuroImage: Clinical*, 43:103646, 2024.

Strydiuk RA, Boltz AJ, Lempke LB, Caccese JB, McAllister TW, McCrea MA, Pasquina PF, **Broglio SP**, CARE Consortium Investigators, SCAT symptom evolution in the acute concussion phase: Findings from the NCAA-DoD CARE Consortium, *Journal of Neurotrauma*, 41(23-24):2571-2579, 2024

Kelly LA, Caccese JB, Esopenko, C, Jain D, Master CL, Lempke L, Memmini AK, Buckley T, Clugston JR, Mozel A, Eckner JT, Susmarski A, Ermer E, **Broglio SP**, McAllister TW, McCrea M, and CARE Investigators, Sex differences across concussion characteristics in U.S. Service Academy cadets: A CARE Consortium study, *Sports Medicine*, 54(11):2955-2964, 2024.

Meier TB, Huber DL, Goeckner BD, Gill JM, Pasquina P, **Broglia SP**, McAllister TW, Harezlak J, McCrea MA, CARE Consortium Investigators, Research Letter: Relationship of blood biomarkers of inflammation with acute concussion symptoms and recovery in the CARE Consortium, *Journal of Head Trauma Rehabilitation*, 40(1): E23-E28, 2025.

Boltz AJ, Lempke LB, Srydiuk RA, Duma S, Pasquina P, McAllister TW, McCrea MA, Chandran A, **Broglia SP**, CARE Consortium Investigators, Association of sport helmet status on concussion presentation and recovery in male collegiate student-athletes, *Annals of Biomedical Engineering*, 52(10):2884-2896, 2024.

Simons MU, McCrea MA, **Broglia S**, McAllister TW, Nelson LD, CARE Consortium Investigators, Latent profiles of acute symptoms, cognitive performance, and balance in sport-related concussion, *American Journal of Sports Medicine*, 52(8):2110-2118, 2024.

Memmini AK, Snedden TR, Boltz AJ, Benson BA, Margolin E, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP**, CARE Consortium Investigators, Factors influencing time to return to learn among NCAA student-athletes enrolled in the Concussion Assessment, Research, and Education (CARE) study, *Sports Medicine*, 54(7):1965-1977, 2024.

Shumski E, Eagle SR, Kontos AP, Bazarian JJ, Caccese JB, Chrisman S, Clugston JR, McAllister TW, McCrea M, **Broglia SP**, Lynall RC, Schmidt JD, The interval between concussions does not influence time to asymptomatic or return to play: A CARE Consortium study, *Sports Medicine*, 54(8):2185-2197, 2024.

King JA, Nelson LD, Cheever K, Brett B, Gliedt J, Szabo A, Dong H, Huber DL, **Broglia SP**, McCrea M, Prevalence and influence of new or worsened neck pain after sport-related concussion in collegiate athletes: A study from the CARE consortium, *American Journal of Sports Medicine*, 52(7):1845-1854, 2024.

Jo J, Boltz AJ, Williams KL, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP**, Zuckerman SP, Zuckerman SL, Terry DP, CARE Consortium Investigators, Mechanisms of injury leading to concussion in collegiate soccer players: A CARE Consortium study, *American Journal of Sports Medicine*, 52(6):1585-1595, 2024.

McAllister T, Kenny R, Harezlak J, Harland J, McCrea M, Pasquina P, **Broglia SP**, Profile of Brief Symptom Inventory-18 (BSI-18) scores in collegiate athletes: A CARE Consortium Study, *The Clinical Neuropsychologist*, 38(7):1667-1682, 2024.

Caccese JB, Master CL, Buckley TA, Chrisman SPD, Clugston JR, Eckner JT, Ermer E, Harcum S, Hunt TN, Jain D, Kelly LA, Langford TD, Lempke LB, McDevitt J, Memmini AK, Mozel AE, Perkins SM, Putukian M, Roby PR, Susmarski A, **Broglia SP**, McAllister TW, McCrea MA, Pasquina PF, Esopenko C, CARE Consortium Investigators, Sex differences in recovery trajectories of assessments for sport-related concussion: A CARE Consortium Study, *Sports Medicine*, 54(6):1707-1721, 2024.

Liebel SW, Van Pelt KL, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP**, CARE Consortium Investigators, Sport-specific recovery trajectories for NCAA collegiate athletes following concussion, *Annals of Biomedical Engineering*, 52(10):2794-2802, 2024.

Coffman CA, Gunn BS, Pasquina PF, McCrea MA, McAllister TW, **Broglia SP**, Moore RD, Concussion risk and recovery in athletes with psychostimulant-treated attention-deficit/hyperactivity disorder: Findings from the NCAA-DOD CARE Consortium, *Journal of Sport & Exercise Psychology*, 45(6):337-346, 2024.

D'Lauro CJ, Register-Mihalik JK, Meier TB, Kerr ZY, Knight KN, **Broglia SP**, Leeds D, Lynall RC, Kroshus E, McCrea M, McAllister TW, Schmidt JD, Optimizing Concussion Care Seeking (OCCS): Connecting care-seeking behaviors and neurophysiological states through blood biomarkers, *American Journal of Sports Medicine*, 52(3):801-810, 2024.

Lempke LB, Boltz AJ, Garcia GGP, Strydiuk RA, Pandey H, McCrea MA, McAllister TW, **Broglia SP**, CARE Consortium Investigators, Optimizing baseline and post-concussion assessments through identification, confirmation, and equivalence of latent factor structures: Findings from the NCAA-DoD CARE Consortium, *The Clinical Neuropsychologist*, 38(5):1156-1174, 2024.

Lempke LB, Ermer E, Boltz AJ, Caccese JB, Buckley TA, Cameron KL, Chrisman SPD, D'Lauro C, Eckner JT, Esopenko C, Hunt TN, Jain D, Kelly LA, Memmini AK, Mozel AE, Putukian M, Susmarski A, Pasquina PF, McCrea MA, McAllister TW, **Broglia SP**, Master CL, CARE Consortium Investigators, Initial mild traumatic brain injury characteristics and recovery patterns among females across the United States military service academies: A descriptive report from the NCAA-DoD CARE Consortium, *Annals of Biomedical Engineering*, 52(10):2756-2767, 2024.

Lempke LB, Caccese JB, Strydiuk RA, Buckley TA, Chrisman SPD, Clugston JR, Eckner JT, Ermer E, Esopenko C, Jain D, Kelly LA, Memmini AK, Mozel AE, Susmarski A, Pasquina PF, McCrea MA, McAllister TW, **Broglia SP**, Master CL, CARE Consortium Investigators, Female collegiate athletes' concussion characteristics and recovery patterns: A descriptive report from the NCAA-DoD CARE Consortium, *Annals of Biomedical Engineering*, 52(10):2741-2755, 2024.

Roby P, Mozel A, Arbogast K, Buckley T, Caccese J, Chrisman S, Clugston J, Eckner J, Esopenko C, Hunt T, Kelly L, McDevitt J, Perkins S, Putukian M, Susmarski A, **Broglia S**, Pasquina P, McAllister T, McCrea M, Master C, Arbogast K, Post-injury outcomes following non-sport related concussion: A CARE Consortium study, *Journal of Athletic Training*, 59(3):289-296, 2024.

Anderson M, Gallo C, Passalugo S, Nimeh J, Edgar R, Yengo-Kahn A, Neitz K, Terr D, **Broglia S**, McCrea M, McAllister T, Pasquina P, Buckley T, Collegiate athletes with diabetes: Baseline medical comorbidities and preseason concussion testing performance differ from non-diabetics?, *Journal of Athletic Training*, 59(3):297-303, 2024.

Simpson E, Nudelman KN, Riggen L, Menser M, Ren J, Reiter JL, Harezlak J, Foroud TM, Saykin AJ, **Broglia S**, McCrea MA, Pasquina PF, McAllister TW, Liu Y, CARE Consortium Investigators, Gene expression alterations in peripheral blood following sport-related concussion in a prospective cohort of collegiate athletes: A Concussion Assessment, Research and Education (CARE) Consortium Study, *Sports Medicine*, 54(4):1021-1032, 2024.

Hunzinger KJ, Cameron KL, Roach M, Jackson JC, McGinty GT, Robb JB, Susmarski AJ, Estevez CA, **Broglia SP**, McAllister TW, McCrea M, Pasquina PF, Buckley TA, Baseline concussion assessment performance by sex in military service academy rugby players: Findings from the CARE Consortium, *BMJ Military Health*, 170(e2):e161-e166, 2024.

Kontos AP, Shawn E, Chrisman S, Putukian M, Manderino LM, Holland CL, Collins M, **Broglia S**, McAllister TW, McCrea M, Pasquina P, Kaminski T, Incidence of concussion and associated risk factors in collegiate soccer: Findings from the NCAA-DoD CARE Consortium, *Science of Medicine in Football*, 8(3):189-195, 2024.

Kroshus E, Leeds DD, McAllister T, Kerr ZY, Knight K, Register Mihalik J, Lynall RC, D'Lauro C, Ho Y, Rahman M, **Broglia SP**, McCrea MA, Schmidt JD, CARE Consortium Investigators, Optimizing concussion care seeking: Using machine learning to identify individual and institutional factors that predict concussion care seeking, *American Journal of Sports Medicine*, 52(9):2372-2383, 2024.

**Broglia SP**, Register-Mihalik JK, Guskiewicz KM, Leddy JJ, Merriman A, Valovich McLeod TC. Updates to the 2014 National Athletic Trainers' Association bridge statement: Management of sport related concussion, *Journal of Athletic Training*, 9(3):225–242, 2024.

Davis GA, Schneider KJ, Anderson V, Babl FE, Barlow K, Blauwet CA, Bressan S, **Broglia SP**, Emery CA, Echemendia RJ, Gagon I, Gioia GA, Giza CC, Leddy JJ, Master CL, McCrea M, McNamee MJ, Meehan WP, Purcell L, Putukian M, Moser RS, Takagi M, Yeates KO, Zemek R, Patricios JS, Pediatric sport-related concussion: Recommendations from the Amsterdam consensus statement 2023, *Pediatrics*, 153(1):e2023063489, 2024.

Meier TB, Huber DL, Goeckner BD, Gill JM, Pasquina P, **Broglia SP**, McAllister TW, Harezlak J, McCrea MA, CARE Consortium Investigators, Association of blood biomarkers of inflammation with acute concussion in collegiate athletes and military service academy cadets, *Neurology*, 102(2):e207991, 2024.

Chang RC, Singleton M, Chrisman SP, Giza CC, Cuneo AZ, Murinova N, **Broglia SP**, McCrea M, McAllister TW, Sharma TL, Postinjury alcohol use is associated with prolonged recovery after concussion in NCAA athletes, *Clinical Journal of Sports Medicine*, 34(1):30-37, 2024.

Lempke LB, Breedlove KM, Caccese JB, McCrea MA, McAllister TW, **Broglia SP**, Schmidt JD, Lynall RC, Buckley TA, CARE Consortium Investigators, Pre-injury measures do not predict future concussion among collegiate student-athletes: Findings from the CARE Consortium. *American Journal of Physical Medicine and Rehabilitation*, 102(9):823-828, 2023.

Boltz AJ, Memmini AK, Brett BL, Snedden TR, Yengo-Kahn AM, Chandran A, Conway DP, Shah R, Pasquina P, McAllister TW, McCrea MA, Master CL, **Broglia SP**, CARE Consortium Investigators, Intersection of Race and Socioeconomic Status on Concussion Recovery among NCAA Student-Athletes: A CARE Consortium study, *Medicine and Science in Sport and Exercise*, 55(12), 2180-2193, 2023.

Garcia GGP, Czerniak LL, Lavieri MS, Liebel SW, Van Pelt KL, Pasquina PF, McAllister TW, McCrea MA, **Broglia SP**, Estimating the relationship between the symptom-free waiting period and injury rates after return-to-play from concussion: A simulation analysis using CARE Consortium data, *Sports Medicine*, 53(12), 2513-2528, 2023.

Aderman MJ, Brett BL, Ross JD, Malvasi SR, McGinty G, Jackson JC, Estevez CA, Brodeur RM, Svoboda SJ, McCrea MA, **Broglia SP**, McAllister TW, Pasquina PF, Cameron KL, Roach MH, Association between symptom cluster endorsement at initiation of a graduated return-to-activity protocol and time to return to unrestricted activity after concussion in United States service academy cadets, *American Journal of Sports Medicine*, 51(11):2996-3007, 2023

Mayer A, Meier T, Ling J, Dodd A, Brett B, Robertson-Benta C, Huber D, van der Horn H, Broglia SP, McCrea M, McAllister T, Increased brain age and relationships with blood-based biomarkers following concussion in younger populations, *Journal of Neurology*, 270(12):5835-5848, 2023.

Lempke LB, Teel EF, Lynall RC, Hoffman NL, Buckley TA, Eckner JT, McCrea MA, McAllister TA, **Broglia SP**, Schmidt JB, Early exercise is associated with faster concussion recovery among collegiate athletes: Findings from the NCAA-DoD CARE Consortium, *Sports Medicine*, 53(10):1987-1999, 2023.

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## **Books**

Whiting WC, Zernicke RF, **Broglio SP**, Biomechanics of Musculoskeletal Injury (3<sup>rd</sup> ed), Human Kinetics, (2023)

## **Book Chapters**

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### **Invited Lectures and Symposium Presentations**

Advances in concussion care: Findings from the CARE Consortium, *Northeastern University Cognitive & Brain Health Speaker Series*, Boston, MA (April 2025)

Updates on concussion care: The 2024 NATA Bridge Statement on Sports-Related Concussion, *Great Lakes Athletic Trainers Association 2025 Annual Meeting*, Chicago, IL (March 2025)

Insights on recent guiding documents on concussion in sport, NeuroHuddle Conference, Honolulu, Hawaii (January 2025)

Return to learn at the college and high school level, *University of Oregon Center on Brain Injury Research and Training*, webinar (October 2024)

When the lights go out: The short and long-term effects of concussion, *Science on Tap Series*, Brighton, MI (October 2024)

The landscape surrounding athlete health and concussions, International Jockey Concussion, Safety and Wellness Conference, *Horsereading Integrity and Safety Authority*, Lexington, KY (October 2024)

Integrating the NATA's Concussion Bridge Statement into Healthcare Administration Procedures, *National Athletic Trainers' Association Clinical Symposia & AT Expo*, New Orleans, LA (June 2024)

Cutting Edge Concussion Research: Findings from the NCAA-DoD CARE Consortium, *American College Health Association Annual Meeting*, Atlanta, GA (May 2024).

Concussion in Sport: An Update on What We Know and Where We Should Go, *American College of Sports Medicine 71st Annual Meeting*, Boston, MA (May 2024).

Key findings from the CARE (Concussion Assessment, Research and Education) Consortium, *The Annual Traumatic Brain Injury Conference*, Washington DC (May 2024).

Youth American Football: Is a helmet enough?, 7th IOC World Conference on Prevention of Injury and Illness in Sport, Monaco (March 2024).

Key Findings from the CARE Clinical Study Core, *Concussion 360 Toronto*, virtual (September 2023).

Findings from the CARE Consortium, *3<sup>rd</sup> Annual Intermountain Health Concussion Conference*, Provo, UT (July 2023).

Primary prevention in youth collision sport - American football takes on Rugby Union: Reducing football risk with head impact exposure data, *Steadman Philippon Research Institute 7<sup>th</sup> Annual Injury Prevention Symposium*, virtual (June 2023).

Structure and findings from the CARE Consortium, *Sports Neuropsychology Society*, Denver, CO (May 2023)

Are all concussions created equal? Comparing civilian student-athletes and military service academies, *6th Matthew Gfeller Neurotrauma Symposium*, Chapel Hill, NC (March 2023)

Assessing concussion: From the NCAA-DOD CARE Consortium to the global stage, *6th Matthew Gfeller Neurotrauma Symposium*, Chapel Hill, NC (March 2023)

The CARE Consortium: Clinical core updates, *10<sup>th</sup> Annual NYU School of Medicine Concussion Center Conference*, virtual (February 2023).

The CARE Consortium: Findings and future directions, *BIG10 / Ivy League TBI summit*, Philadelphia, PA (July 2022).

The CARE Consortium: Overview and findings, *Hawaii Sports Medicine Summit*, virtual (June 2022).

Longitudinal analysis of recovery trajectories after concussion, *Fifth Annual NCAA-US Department of Defense Grand Alliance Concussion Conference*, virtual (April, 2022).

A study of the acute natural history of concussion: Findings from the CARE Consortium, *University of Waterloo Neuroscience Graduate Seminar Series*, virtual (March 2022).

How the CARE Consortium is shaping concussion policy, *University of Calgary Concussion Seminar*, virtual (February 2022).

Rethinking concussion clinical care: Findings from the CARE Consortium, *Grand Rounds for the University of Washington Department of Rehabilitation Medicine*, virtual (October 2021).

Mind the Gap! Updating Recommendations To Keep Members Informed, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, virtual (June 2021).

Clinical and advanced research findings from the CARE Consortium, *New York University Neurology Grand Rounds*, virtual (May 2021)

Sensitivity and Specialty of Computer-Based Neurocognitive Tests in Sport-Related Concussion Findings from the NCAA-DoD CARE Consortium, *4th Annual NCAA-U.S. Department of Defense Grand Alliance Concussion Conference: A New Era of Scientific Collaboration*, virtual (April 2021).

The role of CARE in concussion management, *New York University 8th Annual Concussion Across the Spectrum of Injury: The Latest in Diagnosis and Management-A Focus on Telehealth*, virtual (February 2021).

NCAA-DoD CARE Consortium Clinical Study Core Update, *National Collegiate Athletic Association Concussion Safety Advisory Group*, virtual (January 2021).

An update from the CARE Consortium, *Montana Athletic Trainers Association*, virtual (December 2020).

CARE Consortium: A multi-site concussion investigation, *University of Michigan Department of Physical Medicine and Rehabilitation*, virtual (October 2020).

A CARE Consortium Update, *National Collegiate Athletic Association Concussion Safety Advisory Group*, Indianapolis, IN (February 2020).

Concussion in football: Data from the CARE Consortium, *National Collegiate Athletic Association Football Concussion Data Task Force*, Indianapolis, IN (February 2020).

CARE Consortium: Updates and what's on the horizon, *New York University Seventh Annual Concussion Across the Spectrum of Injury: Latest in Diagnosis and Management*, New York, NY (February 2020).

Concussion science and best practices, *National Catholic Risk Retention Group Winter Meeting*, Tampa, FL (January 2020).

Value of concussion assessments in clinical care, *Oregon Health and Science University Traumatic Brain Injury Symposium*, Portland, OR (December 2019 - Keynote).

Setting up a research network: Lessons and findings from the CARE Consortium, *Oregon Health and Science University Traumatic Brain Injury Symposium*, Portland, OR (December 2019 - Keynote).

Background and findings of the CARE Consortium, *McMaster University*, Hamilton, ON (November 2019).

The CARE Consortium: Findings from a multi-site concussion study, *Mid-Atlantic Regional Chapter – ACSM*, Harrisburg, PA (November 2019).

The NCAA-DoD CARE Consortium - Clinical Study Core, *National Collegiate Athletic Association Concussion Safety Advisory Group*, Indianapolis, IN (July 2019)

Concussion: From Research to Clinical Practice - The CARE Consortium, *2019 Ohio State Brain Health and Performance Summit*, Columbus, OH (June 2019).

Emerging information from the NCAA-DoD Concussion Assessment, Research and Education Consortium - Longitudinal Clinical Study Core, *Third Annual NCAA-US Department of Defense Grand Alliance Concussion Conference*, Madison, WI (April 2019).

What can you learn about concussion from 45,000 participants? Findings from the CARE Consortium, *Boston University Grand Rounds*, Boston, MA (April 2019).

Are concussions the downfall of football, *University of Michigan Saturday Morning Physics*, Ann Arbor, MI (February, 2019).

Concussion in football, *National Collegiate Athletic Association Football Data Task Force*, Indianapolis, IN (February 2019).

CARE 1.0 Outcomes and Overview of CARE 2.0, *Eastern Athletic Trainer's Association's Concussion Summit*, King of Prussia, Pennsylvania (January, 2019).

The persistent effects of concussion: What science tells us that fake news won't, *Marjorie A. King Research to Reality Presentation, Eastern Athletic Trainer's Association's Concussion Summit*, King of Prussia, Pennsylvania (January, 2019).

Findings from the CARE Consortium: A nationwide prospective investigation of sport concussion, *University of Michigan Health & Fitness Workshop*, Ann Arbor, MI (December 2018).

The Business of Science: Securing Extramural Funding, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, New Orleans, LA (June 2018).

Advances in Sport Concussion Research: Findings from the NCAA-DoD CARE Consortium, *American College of Sports Medicine 65<sup>th</sup> Annual Meeting*, Minneapolis, MN (May 2018).

Head impact exposure in football: Can we predict concussion? *Sport Neuropsychological Society*, Washington, DC (May 2018).

Emerging information from the NCAA-DoD Concussion Assessment, Research, and Education Consortium - Longitudinal Clinical Study Core, *Second Annual NCAA-DoD Grand Alliance Concussion Conference*, West Point, NY (April 2018).

Concussion Research, *Penn State Sports Analytics Conference*, State College, PA (April 2018).

Injury and concussion rates: Pre-season, *National Collegiate Athletic Association Football Data Task Force*, Indianapolis, IN (February 2018).

Injury and concussion rates: In-season and post-season, *National Collegiate Athletic Association Football Data Task Force*, Indianapolis, IN (February 2018).

Clinical concussion recovery: The CARE Consortium clinical study core, *Royal College of Surgeons in Ireland*, Dublin, Ireland (November 2017)

Concussion in sport - what's the current state of play? What 40,000 athletes have taught us, *Science Gallery*, Dublin, Ireland (November 2017).

CARE Consortium concussion injury and return to play profiles, *University of South Carolina*, Columbia, SC (October 2017)

Persistent effects of sport concussion on motor control, part of: The long-term outcomes of sport-related brain injuries: Insights from psychophysiological research, *Society for Psychophysiological Research*, Vienna, Austria (October 2017)

Early finding from the NCAA-DoD Concussion Assessment, Research, and Education (CARE) Consortium, *New York University Concussion Center Grand Rounds*, New York, NY (September 2017).

The relationship between concussion and cognitive health, *University of Calgary*, Calgary, Canada (August 2017).

Findings from the CARE Consortium Clinical Study Core, *Big Ten-Ivy League Traumatic Brain Injury Research Collaboration*, Chicago, IL (July 2017).

Clinical Updates from the CARE Consortium, *American Academy of Neurology Sport Concussion Conference*, Jacksonville, FL (July 2017).

Long-term and cumulative effects of concussion: Where's the evidence?, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Houston, TX (June 2017).

Concussion Recovery: The natural history and modifiers, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Houston, TX (June 2017).

Concussion research: Emerging evidence from the laboratory, *On common ground: A team approach to sports medicine*, Ann Arbor, MI (June 2017)

Sideline concussion assessment, *Major League Soccer and USA Soccer - Head Injury and Concussion In Soccer; From Science to the Field*, New York, NY (May 2017)

Concussions, CTE, and the Law, *Collegiate Athletic Trainers' Society*, Las Vegas, NV (May 2017).

Does concussion change the brain, *Trinity College Dublin*, Dublin, Ireland (May 2017)

Emerging Concepts in Sport-Related Concussion: Overview and Data From the Concussion Assessment, Research, and Education (CARE) Consortium, *International Brain Injury Association's 12th World Congress on Brain Injury*, New Orleans, LA (March 2017)

The NCAA-DoD Concussion Assessment, Research and Education (CARE) Consortium: Longitudinal Clinical Study Core, *Sport-Related Concussion: A New Era of Scientific Collaboration*, Los Angeles, CA (January 2017)

Sport concussion: A brief overview, *Kalamazoo Rotary Club*, Kalamazoo, MI (December 2016).

Is the sky falling? The long term effects of concussion, *National Academy of Kinesiology*, Albuquerque, NM (October 2016).

Does concussion alter long term cognitive health? *University of California Neurotrauma Symposium*; Santa Rosa, CA (September 2016)

Should contact sports be banned: The long term risks of concussion, *Michigan Athletic Trainers' Society Clinical Symposium*, Ypsilanti, MI (June 2016).

Life after concussion, *University of Virginia 2016 Art and Science of Medicine meeting*, Charlottesville, VA (June 2016).

Repeated head impact exposure in high school football, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, part of: The "Impact" of Head Impacts in Sport; Baltimore, MD (June 2016).

Concussion research: What are the risks of contact sports?, *Return on Investment: A Sports Medicine Approach*, Ann Arbor, MI (May 2016)

Concussion, *Gull Lake Area Rotary Club*, Kalamazoo, MI (April 2016).

When the cheering stops: The after effects of concussion, *6th Annual First Coast Sports Injury Symposium & Concussion Update*; Jacksonville, FL (April 2016).

Impact mechanics in football athletes, *6th Annual First Coast Sports Injury Symposium & Concussion Update*; Jacksonville, FL (April 2016).

Is rest best? Concussion recovery, *6th Annual First Coast Sports Injury Symposium & Concussion Update*; Jacksonville, FL (April 2016).

Just the facts mam: Sport concussion, *National Association of Social Workers - Spring Continuing Education Conference for Social Workers*; Charleston, WV (April 2016).

The soup to nuts of concussion, *National Association of Social Workers - Spring Continuing Education Conference for Social Workers*; Charleston, WV (April 2016).

Life after concussion in college sports, *South by Southwest Conferences and Festivals*; Austin, TX (March 2016).

The CARE data: What is the natural history of concussion, *International Brain Injury Association World Congress on Brain Injury*; The Hague, Netherlands (March 2016).

Does concussion have an enduring effect? *American Clinical Neurophysiology Society Annual Meeting and Courses*; Orlando, FL (February 2016).

Concussion diagnosis and management update: New data from the CARE Consortium Clinical Study Core, *NCAA Safety in College Football Summit*; Orlando, FL (February 2016).

Lasting effects of concussion, *Big Sky Athletic Training and Sports Medicine Conference*; Big Sky, MT (February 2016).

Prevention efforts and reducing the risk of concussion: Are we making progress? *Concussions in the Young Athlete VuMedi webinar* (January 2016).

Treatment options for sports-related concussion, *Arizona State University Center for Law: Safeguarding Brains: The Law, Science & Ethics of the Concussive Injury Epidemic*; Tempe, AZ (November 2015).

The NCAA Perspective on the Relationship between Head Trauma and CTE. *2015 International State-of-the-Science meeting on "Does Repeated Blast-Related Trauma Contribute to the Development of Chronic Traumatic Encephalopathy (CTE)?"*; McLean, VA (November 2015).

What is the long term risk of concussion? Fact v Fiction, *The University of Delaware Distinguished Scholars Lecture Series*; Newark, DE (November 2015).

NCAA-DoD CARE Consortium - A longitudinal investigation, *2015 International Professional Sports Concussion Research Think Tank*; London, England (October 2015).

The National Collegiate Athletic Association and Department of Defense Grand Alliance: The Concussion Assessment, Research, and Education (CARE) Consortium, *International Initiative for Traumatic Brain Injury Research (InTBIR) Meeting*; Brussels, Belgium (October 2015).

The NeuroTrauma Research Laboratory: An Overview, *University of Michigan Exercise and Sport Science Institute Symposium*; Ann Arbor, MI (September 2015).

Do concussions have a lasting effect?: What the data tell us, *Michigan State University's Department of Neurology and Ophthalmology Grand Rounds*; Lansing, MI (September 2015).

Prospective cohort research in sports mTBI, *American Academy of Neurology Sport Concussion Conference*; Denver, CO (July 2015).

The science and media of sport concussion, *Academy for Sports Dentistry*; Chicago, IL (June 2015).

Persistent effects of concussion: How concussive injury during the teen years impacts cognitive and motor performance, *National Summit on Sports Concussion: Sports and Concussion Outcomes*; Los Angeles, CA (June 2015).

Sport concussion update, *University of Michigan All Eyes on Concussion*; Ann Arbor, MI (May 2015).

Concussion: Does the Science Support the Headlines, *National Association of Social Workers - Spring Continuing Education Conference for Social Workers*; Charleston, WV (April 2015).

Sport Concussion: The forces and vectors of injury, *Dell Children's Medical Center of Texas, Healthy Brain Foundation Annual Concussion Conference*; Austin, TX (April 2015).

Ways to reduce concussion in sports based on biomechanics, *Dell Children's Medical Center of Texas, Healthy Brain Foundation Annual Concussion Conference*; Austin, TX (April 2015).

Sports and Brain Injuries, *University of Michigan Museum of Natural History Science Café*; Ann Arbor, MI (March 2015).

The concussion problem: The NCAA's perspective, *International State-of-the-Science Meeting on the Biomedical Basis for Mild Traumatic Brain Injury (mTBI) Environmental Sensor Threshold Values*; McLean, VA (November 2014).

Balance and concussion, *University of Nebraska Concussion Think Tank*; Lincoln, NE (September 2014).

Concussion revisited, *2014 Medicine of Cycling Conference*; Colorado Springs, CO (August 2014).

Concussion - The science behind the headlines, *Rocky Mountain University of Health Professions*; webinar (August 2014).

The fight for evidence-based sports concussion management, *University of Michigan Department of Neurology Grand Rounds*; Ann Arbor, MI (August 2014).

NCAA-DoD: Grand Alliance – Concussion assessment, research and education consortium, *Big Ten/CIC-Ivy League Traumatic Brain Injury Research Collaboration Summit*; Philadelphia, PA (July 2014).

Post-Concussive Syndrome, *American Academy of Neurology, The Sports Concussion Conference*; Chicago, IL (July 2014).

Concussion research findings: What we know about concussion's lasting effects, *University of Michigan Sport Concussion and Emergency Management Symposium*; Ann Arbor, MI (May 2014).

Sport Concussion: Biomechanics to brainwaves, *University of Washington Injury Prevention Center*; Seattle, WA (May 2014).

NATA Position Statement: Management of sport concussion, *Youth Sport Safety Summit*; Washington DC (March 2014).

The role of balance in the concussion assessment paradigm, *Medical Professional eSeminar Series*; webinar (February 2014).

Rest, Recovery & Exercise Post Concussion, *Big Sky Athletic Training and Sports Medicine Conference*; Big Sky, MT (February 2014).

Everything I've learned about concussions, *University of Michigan 20<sup>th</sup> Annual Physical Education Workshop*; Ann Arbor, MI (December 2013 - Keynote).

Concussive and sub-concussive impacts: Implications for chronic outcomes, *University of Missouri - Kansas City*; Kansas City, MS (November 2013).

Balance assessment: From the athletic field to the battlefield, *National Intrepid Center of Excellence (NICoE)*; Bethesda, MD (October 2013).

Hard knocks: What you need to know about concussions, *Michigan Intramural - Recreational Sports Association*; Ann Arbor, MI (October 2013).

Concussion and minimal brain injury, *American Academy of Family Physicians Scientific Assembly*; San Diego, CA (September 2013).

Head impact biomechanics, *University of California at Los Angeles Sports Medicine Grand Rounds*; Los Angeles, CA (September 2013).

The kinetics and kinematics of head impacts, *University of California Neurotrauma Symposium*; Santa Barbara, CA (September 2013).

My rider has a concussion...now what?, *2013 Medicine of Cycling Conference*; Colorado Springs, CO (September 2013).

Roadside concussion assessment, *Interbike Trade Show*; Las Vegas, NV (September 2013).

Sport concussion: From bench to bedside, *National Athletic Trainers' Association Continuing Education Webinar*; webinar (September 2013).

The reliability of computerized concussion assessment tools, *Department of Defense Neurocognitive Assessment Tool Workshop*; webinar (August, 2013).

Management of sport concussion, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*; Las Vegas, NV (June 2013).

Strategies for rehabilitation and consideration for rest, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, part of: Sport-related concussion: What more do we know today and where are we making progress?; Las Vegas, NV (June 2013).

Sport concussion in collegiate athletics, *Bowling Green State University Department of Athletics*; Bowling Green, OH (June 2013).

Football impact dynamics: Measuring hits to the head: *Brain Trauma Foundation*; webinar (June 2013).

Concussion identification and evaluation, *USA Cycling: Race Officials' Training*; webinar (May 2013).

Concussion and its chronic effects on cognitive function, *Virginia Polytechnic Institute School of Biomedical Engineering and Sciences*; Blacksburg, VA (May 2013).

Concussion biomechanics, *University of Michigan, Department of Physical Medicine and Rehabilitation Thirtieth Annual James W. Rae Scientific Day*; Ann Arbor, MI (May 2013).

Impact biomechanics: Do big and little hits have the same result?, *University of Pittsburgh Department of Orthopedic Surgery Grand Rounds*; Pittsburgh, PA (April 2013).

Concussion identification and evaluation, *USA Cycling: Race Director's Summit*; Colorado Springs, CO (April 2013).

Concussion biomechanics and their role in long term disease, *Chi Epsilon Civil Engineering Honors Society*; Ann Arbor, MI (March 2013).

Concussion management: Updating the National Athletic Trainers' Association Position Statement, *Matthew Gfeller Sport-Related Neurotrauma Symposium*; Chapel Hill, NC (March 2013).

Sport concussion: Making sense out of scrambled eggs, *University of Toledo Sports Medicine Lecture Series*; Toledo, OH (February 2013).

A concussion discussion: Questions and (some) answers, *University of Oregon Department of Human Physiology*; Eugene, OR (February 2013).

A multifaceted approach to concussion assessment, *Big Sky Athletic Training and Sports Medicine Conference*; Big Sky, MT (February 2013).

Head impacts and chronic outcomes, *University of Michigan Depression Center Colloquium Series*; Ann Arbor, MI (January 2013).

Concussion assessment tools: Evidence for use, *Medicine of Cycling Conference*; Colorado Springs, CO (August 2012).

Concussion, *University of Michigan MedSport Outreach Clinic*; Ann Arbor, MI (July 2012).

Concussion and minimal brain injury, *Pennsylvania Academy of Family Physicians*; Annapolis, MD (July 2012).

Use of the Head Impact Telemetry System to understand concussion mechanics, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*; St. Louis, MS (June 2012).

Biomechanical aspects of concussion, Part of: *Concussions: Practical Management Strategies for Athletic Trainers*; Ann Arbor, MI (May 2012).

Everything you wanted to know about concussions in under 60 minutes, *Rocky Mountain University of Health Professions*; webinar (May 2012).

Sport concussion biomechanics, *American Medical Society for Sports Medicine*; Atlanta, GA (April 2012).

Managing risks of university athletic programs: Sport concussion, *Michigan Universities Self-Insurance Corporation*; Big Rapids, MI (April 2012).

The biomechanics of concussion, *University of Texas - Arlington Concussion Summit*; Arlington, TX (March 2012).

Concussion research in the interscholastic setting: Current issues, *University of Wisconsin - Madison Athletic Training Education Program Alumni and Friends Celebration*; Madison, WI (February 2012).

Head impact biomechanics: Concussion biomechanics, *Big Sky Athletic Training and Sports Medicine Conference*; Big Sky, MT (January 2012).

Sport Concussion: A biomechanical perspective, part of: Sports Related Head Injuries, *14th European Congress of Neurosurgery*; Rome, Italy (October 2011).

Assessing balance following concussion, *Athletic Trainers' Society of New Jersey 2<sup>nd</sup> Annual Sports Concussion Summit*; Plainsboro, NJ (July 2011).

Cognitive and motor functioning following sport related mild traumatic brain injury, *Carle Neuroscience Symposium*; Urbana, IL (April 2011).

Equipment and biomechanical considerations for concussion prevention, *International Olympic Committee World Conference on Prevention of Injury and Illness in Sport*, part of: Prevention of sport-related concussion and long-term effects of recurrent mTBI: Is research driving clinical practice?; Monaco, Monte Carlo (April 2011).

A closer look at sport concussion, *United States Youth Soccer Workshop 2011*; Louisville, KY (February 2011).

Concussion Management-Implications for Practice, *Illinois Athletic Trainers' Association Symposium*; Lisle, IL (November 2010 - keynote).

Brain trauma biomechanics: All hits are not created equal, *Southwest Athletic Trainers' Association*; Arlington, TX (July 2010).

Concussion in interscholastic football: Organizing field based research, *Carle Foundation Hospital*; Urbana, IL (November 2009).

The sideline evaluation: A systematic approach, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, part of: Sport-related concussion - Navigating the Latest Research Findings and Clinical Recommendations; San Antonio, TX (June 2009).

The relationship between cognitive and postural control performance with self-report concussion symptoms, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, part of: The concussion dilemma: Are we headed in the right direction?; San Antonio, TX (June 2009).

Concussion: Transient and persistent outcomes, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*; San Antonio, TX (June 2009).

The acute and persistent effects of sport concussion, *Catholic University of Rome: Institute of Biochemistry and Clinical Biochemistry*; Rome, Italy (May 2009).

The usefulness of neuropsychological testing in monitoring long term problems, *3<sup>rd</sup> International Conference on Concussion in Sport*; Zurich, Switzerland (October 2008).

Special Interest Group: Concussion in Sport, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*; St Louis, MS (June 2008).

Stability of common computerized tests for concussion assessment, *American College of Sports Medicine*, Featured Science Session: Neuropsychological Assessment of the Concussed Athlete: Only One Piece of the Concussion Puzzle; Indianapolis, IN (May 2008).

Helmet impacts during high school football: A biomechanical assessment, *Big Ten Sports Medicine Meeting*; Chicago, IL (May 2008).

Traumatic brain injury in sport: The Unity High School concussion project, *Illinois High School Association Sports Medicine Meeting*; Bloomington, IL (April 2008).

History of concussion is associated with suppressed neuroelectric activity in young adults, *4th International Meeting on mTBI in Sports*; St Moritz, Switzerland (March 2008).

Concussion assessments: Do they measure what we think?, *4th International Meeting on mTBI in Sports*; St Moritz, Switzerland (March 2008).

Sport Related Concussion: What we know about the acute and chronic effects, *University of Montreal: Centre de Recherche En Neuropsychologie Expérimentale et Cognition*; Montreal, Canada (February 2008).

Concussion in Sport: It's a hard knock life, *Brain and Cognition Seminar*; University of Illinois at Urbana-Champaign, IL (November 2007).

Concussion in sport, *Department of Kinesiology and Community Health Exercise Physiology and Athletic Training Seminar*; University of Illinois at Urbana-Champaign, IL (October 2006).

Bicycling Mechanics, *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*; Atlanta, GA (June 2006).

Concussion testing: The UGAA sport medicine approach, *Georgia Sports Medicine Symposium*; Athens, GA (June 2005).

The concussion discussion: Pre-season testing protocols and post-injury treatment, *Sports Health College and University Sports Medicine Meetings*; Portland, OR (June, 2003).

The concussion discussion: Pre-season testing protocols and post-injury treatment, *Sports Health College and University Sports Medicine Meetings*; Austin, TX (May, 2003).

## RESEARCH GRANTS AND CONTRACTS

### Ongoing

Wiebe D (PI), Power L, Allen PG, Smith S, Hoffman G, Bretzin A, Wexler L, Zeoli A, Alexander N, Miller A, Cross F, Goldstick J, Coughlin L, Bonar E, Kilbourne A, Heinze J, Carter P, Ehrlich P, Stoddard S, King C, Bohnert A, Flannagan C, **Broglia SP (co-I)**, Walton M, Sokol R, The University of Michigan Injury Prevention Center, *Department of Health and Human Services - Centers for Disease Control and Injury Prevention*, \$850,000, 2024-2029

Broglia SP (PI), Empowering communities through knowledge: Debunking myths of concussions in Michigan, Michigan Institute for Clinical & Health Research (MICHHR), \$15,000, 2024-2025.

**Broglia SP (co-PI)**, McAllister TW, McCrea M, Pasquina P, Characterizing potential chronic brain health effects of concussion and repetitive head impact exposure: The CARE-SALTOS Integrated (CSI) Study, *Medical Technology Enterprise Consortium (MTEC)*, \$25,000,000, 2021-2026.

**Broglia SP (co-PI)**, McAllister TW, McCrea M, Pasquina P, Characterizing potential chronic brain health effects of concussion and repetitive head impact exposure: The CARE-SALTOS Integrated (CSI) Study, (National Football League augmentation funds), *Henry Jackson Foundation*, \$7,650,000, 2021-2026.

**Broglia SP (co-PI)**, McAllister TW, McCrea M, Pasquina P, Characterizing potential chronic brain health effects of concussion and repetitive head impact exposure: The CARE-SALTOS Integrated (CSI) Study, *National Collegiate Athletic Association*, \$10,000,000, 2021-2026.

**Broglia SP (PI)**, Michigan Concussion Center, *University of Michigan Biosciences Initiative*, \$5,163,408, 2018-2025.

### Completed

Eckner JT (PI), Ashton-Miller J, Peterson M, He X, **Broglia SP (co-I)**, Jacobson J, How do the neck muscles influence head acceleration during sport associated impact events in high school athletes? *National Institutes of Health - National Institute of Child Health and Human Development (1R01HD093733-01A1)*, \$3,868,136, 2018-2024.

Pasquina P (PI), **Broglia SP (co-I)** McAllister TW, McCrea M, Service Academy Long Term Outcomes Study (SALTOS), Uniformed Services University \$2,555,000, 2019-2023.

**Broglia SP (co-PI)**, McAllister TW, McCrea M, Pasquina P, Cumulative and persistent intermediate effects of concussion and head impact exposure in CARE Consortium Military Service Academy members and NCAA Athletes, *USA Medical Research Acquisition Activity (W81XWH-18-2-0047)*, \$9,991,334, 2018-2022.

**Broglia SP (co-PI)**, McAllister TW, McCrea M, Pasquina P, A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes and U.S. Military Service Academy members, *National Collegiate Athletic Association*, \$20,485,847, 2018-2023.

**Broglio SP (co-PI)**, Islam M, Kovelman I, Rogers A, Concussion diagnosis: Beyond "How many fingers am I holding up?" *University of Michigan Exercise and Sport Science Initiative*, \$99,938, 2018-2020.

Cunningham R (PI), Maust D, Martin J, Bohnert A, Bingham C, **Broglio SP (co-I)**, Buckley L, Walton M, Resnicow K, Cranford J, Caldwell C, Tzilos G, Flannagan C, Carter P, Goldstick J, Lin L, Dahlem G, Ehrlich P, Zimmerman M, Eisman A, Heinze J, Stoddard S, University of Michigan Injury Center, *Centers for Disease Control and Prevention (R49CE002009-05S1)*, \$818,045, 2017-2019

**Broglio SP (co-PI)**, McAllister TW, McCrea M, The National Collegiate Athletic Association - Department of Defense Grand Alliance: Concussion Assessment, Research, and Education (CARE) Consortium, *USA Medical Research Acquisition Activity (option funding)*, \$4,999,999; 2016-2018.

**Broglio SP (co-PI)**, McAllister TW, McCrea M, The National Collegiate Athletic Association - Department of Defense Grand Alliance: Concussion Assessment, Research, and Education (CARE) Consortium, *USA Medical Research Acquisition Activity (W81XWH-14-2-0151)*, \$19,635,999; 2014-2018.

Eckner JT (PI), Ashton-Miller JA, Conley RS, **Broglio SP (co-I)**, Garton H, Development and validation of a "Gold Standard" *in vivo* head impact sensor, *University of Michigan Injury Center*, \$25,000 2015-2017.

Swartz EE (co-PI), **Broglio SP (co-PI)**, Prevention of head impacts in football: The HuTT technique (Phase I), *National Football League/Under Armour/GE Head Health Challenge II: Innovative Approaches For Identifying And Preventing Brain Injury*, \$500,000; 2014-2017.

Joseph JR (PI), **Broglio SP (Co-I)**, Park P, Evaluating neurocognitive impairment and serum biomarkers of mild traumatic brain injury in high-school football athletes with high acceleration head impact, *American Association of Neurological Surgeons Codman Resident NeuroTrauma Research Award*, \$40,000 2016-2017.

**Broglio SP (PI)**, Kutcher JS, He X, The impact of concussive and sub-concussive blows on brain network activity, *The National Institutes of Health: National Institute of Neurological Disorders and Stroke (1R15NS081691-01)*, \$435,212; 2012-2017.

**Broglio SP (PI)**, The impact of concussive and sub-concussive blows on brain network activity, *The National Institutes of Health: National Institute of Neurological Disorders and Stroke (3R15NS081691-01S1)*, \$74,310; 2014-2017.

**Broglio SP (co-PI)**, Pradhan AK, Bingham R, Long-term effects of concussion on driving behaviors: A driving simulator evaluation, *University of Michigan Injury Center*, \$15,000 2015-2017.

Swartz EE (co-PI), **Broglio SP (co-PI)** Prevention of head impacts in American football, *National Athletic Trainers' Association - Research and Education Foundation*, \$47,686; 2014-2016.

**Broglio SP (co-PI)** Pradhan AK, Bingham R, Persistent effects of concussion on driving, *University of Michigan Office of Research*, \$9,300 2015-2016.

**Broglia SP (co-PI)**, Eckner JT, Giza CC, Guskiewicz KM, Kutcher JS, McCrea M, National sport concussion outcomes study - Phase 1: The role of equipment and head impact exposure on neurological outcomes, *National Collegiate Athletic Association*, \$399,850; 2012-2016.

**Broglia SP (co-PI)**, Meehan SK, The effect transcranial magnetic stimulation (TMS) on neural plasticity in young adults with a concussion history, *University of Michigan Injury Center*, \$24,958; 2013-2015.

**Broglia SP (PI)**, Hillman CH, Sosnoff JJ, Concussion across the lifespan: Persistent effects on brain, neurocognitive functioning, and motor control, *National Athletic Trainers' Association - Research and Education Foundation*, \$128,912; 2011-2014.

**Broglia SP (PI)**, Spring/Summer Research Grants Program Application, *Rackham Graduate School, University of Michigan*, \$5045; 2014.

**Broglia SP (PI)**, Spring/Summer Research Grants Program Application, *Rackham Graduate School, University of Michigan* (awarded 2013 - funding returned).

Kutcher JS (PI), Eckner JT, **Broglia SP (Co-I)**, Stability and Effect of Concussion on Brain Network Activation Scores, contract with *ElMindA, Ltd*, \$677,521; 2011-2013.

Eckner JT (PI), Kutcher JS, **Broglia SP (Co-I)**, Ashton-Miller JA, A Novel Assessment of Head Impact Biomechanics in Female Athletes, *Women's Sports, Health and Activity Research and Policy (SHARP) Center*, \$15,000; 2011-2012.

**Broglia SP (PI)**, Imaging the concussed mind: A look at the long term effects of concussion, *Beckman Institute for Advanced Science and Technology*, \$8,000; 2011.

**Broglia SP (PI)**, Graduate Assistant support for the Activities and Recreation Center (ARC) Wellness Center, contract with *Carle Foundation Hospital - Division of Sports Medicine*, \$62,683; 2010-2012.

**Broglia SP (PI)**, Head Impact Telemetry Alert Beta Testing, contract with *Simbex LLC*, \$49,998; 2010.

**Broglia SP (PI)**, McAuley E, Kramer A, Cohen NJ, Sutton B, He X, Concussion across the lifespan: A multi-disciplinary assessment of cognitive health, *University of Illinois Health and Wellness Initiative*, \$49,820; 2010-2011.

**Broglia SP (PI)**, Hillman CH, McAuley E, Mild traumatic brain injury and cognitive health across the lifespan, *University of Illinois at Urbana-Champaign Research Board*, \$12,650; 2009-2012.

**Broglia SP (PI)**, Vagnozzi R with Tavazzi B, Lazzarino G, Mild Traumatic Brain Injury: Revealing the 'Silent Epidemic,' *William and Flora Hewlett International Research Grants*, \$3000; 2009.

Ferrara MS (PI), Cooper ER, Powell JW, Casa DJ, **Broglia SP (Co-I)**, Monitoring exertional heat illnesses in interscholastic Georgia football, *National Athletic Trainers' Association - Research and Education Foundation*, \$109,006; 2009 - 2011 .

Woods JA (PI), **Broglia SP (Co-I)**, Kelley KW, Dantzer R, Effects of mild traumatic brain injury (mTBI) on neuroinflammation, cognition, and depression, *The Mary Jane Neer Research Fund for Research in Disability*, \$14,902; 2007 - 2008.

**Broglia SP (PI)**, Ebersole KT, Rosengren KS, Reliability of postural control assessments, *Great Lakes Athletic Trainers' Association*, \$1200; 2007.

Ferrara MS (PI), Cooper ER, **Broglia SP (Co-I)**, Powell JW, Casa DJ, Monitoring environmental conditions and injury rates of fall sports, *National Collegiate Athletic Association Committee on Competitive Safeguards and Medical Aspects of Sports*, \$23,144; 2007.

**Broglia SP (PI)**, Hillman CH, Association between recurrent concussion and chronic changes in cognitive and neuroelectric indices, *University of Illinois at Urbana-Champaign Research Board*, \$9,175; 2007 - 2008.

Hillman CH (PI), **Broglia SP (Co-I)**, Clinical and Neuroelectric Indices of Multiple Concussions, *The Mary Jane Neer Research Fund for Research in Disability*, \$15,000; 2007 - 2008.

**Broglia SP (PI)**, Ostoja-Starzewski M, Sutton B, Finite Element Modeling of Brain Deformation from Rapid MRI, *The Mary Jane Neer Research Fund for Research in Disability*, \$14,400; 2006 - 2007.

Ferrara MS (PI), Cooper ER, **Broglia SP (Co-I)**, Monitoring environmental conditions and injury rates of selected fall sports at NCAA Division III institutions, *National Collegiate Athletic Association Committee (NCAA) on Competitive Safeguards and Medical Aspects of Sports*, \$28,996; 2006.

Ferrara MS (PI), Cooper ER, **Broglia SP (Co-I)**, Monitoring environmental conditions and injury rates of selected fall sports at NCAA Division III institutions, *National Collegiate Athletic Association (NCAA) Committee on Competitive Safeguards and Medical Aspects of Sports*, \$30,947; 2005.

**Broglia SP (PI)**, The reliability and specificity of computer-based concussion assessment protocols, *Louise E. Kindig Research Award, Department of Kinesiology, University of Georgia*, \$1,000; 2005 - 2006.

**Broglia SP (PI)**, *Dissertation Completion Assistantship*, University of Georgia Graduate School, \$16,767; 2005 - 2006.

Ferrara MS (PI), Cooper ER, **Broglia SP (Co-I)**, Monitoring environmental conditions and injury rates of selected fall sports at NCAA Division III institutions, *National Collegiate Athletic Association (NCAA) Committee on Competitive Safeguards and Medical Aspects of Sports*, \$49,500; 2004.

Piland SG (PI), **Broglia SP (Co-I)**, Ferrara MS, Investigation of Non-concussed group responses on a measure of self-reported concussion-related symptoms, *Southeast Athletic Trainers' Association Research Grant*, \$750; 2002.

Ferrara MS (PI), Cooper ER, **Broglia SP (Co-I)**, Courson RW, Monitoring environmental conditions at southeastern universities, *National Athletic Trainers' Association - Research and Education Foundation*, \$7,140; 2003.

**Broglia SP (PI)**, Ju YY, Broglia MD, Sell TC, The efficacy of soccer headgear, *National Athletic Trainers' Association - Research and Education Foundation, Osternig Masters Grant, \$1,000; 2001 - 2002.*

**Broglia SP (PI)**, Guskiewicz, KM, Sell, TC, Lephart, SM, The acute effect of rotational heading on measures of postural stability, *Orthopaedic Research Laboratory Alumni Council: Mrs. Ho-Tung Cheong Research Grant, \$3,000; 2001 - 2002.*

## SERVICE

### Professional Service

#### Organizations

*Concussion in Sport Group*

Board of Directors

President, 2025 to present

President Elect (inaugural), 2024

Member at Large, 2023

#### Journals

*Journal of Athletic Training*

Associate Editor, 2015 to present

Guest Editor, Special Edition on *Concussion in Sport*, 2015 to 2017

Editorial Board, 2009 to 2015

*Concussion*

Editorial Board, 2014 to present

*Athletic Training & Sports Health Care*

Editorial Board, 2008 to 2021

*British Journal of Sports Medicine*

Editorial Board, 2008 to 2020

#### Journal ad-hoc Reviewer

*American Journal of Sports Medicine* • *Annals of Biomedical Engineering* • *Applied Neuropsychology: Child* • *Archives of Clinical Neuropsychology* • *Archives of Physical Medicine and Rehabilitation* • *Biology of Sport* • *BMC Sports Science, Medicine, & Rehabilitation* • *Brain* • *Brain Injury* • *British Journal of Sports Medicine* • *British Medical Journal* • *Clinical Journal of Sports Medicine* • *Child Neuropsychology* • *Clinical Neurology and Neurosurgery* • *Concussion* • *Developmental Neuropsychology* • *Experimental Brain Research* • *International Journal of Exercise Science* • *JAMA Pediatrics* • *International Journal of Sports Medicine* • *Journal of ASTM International* • *Journal of Adolescent Health* • *Journal of Athletic Training* • *Journal of Biomechanical Engineering* • *Journal of Biomechanics* • *Journal of Clinical and Experimental Neuropsychology* • *Journal of Exercise Science* • *Journal of Motor Behavior* • *Journal of Neurological Sciences* • *Journal of Neurotrauma* • *Journal of Science and Medicine in Sport* • *Journal of Sport and Health Science* • *Journal of Sport Science and Medicine* • *Journal of Sport Rehabilitation* • *Medical Principles and Practice* • *Medicine and Science in Sport and Exercise* • *Neurocase* • *Neuropsychology* • *Neuropsychology Review* • *Neuroscience Letters* • *Neurosurgery* • *New England Journal of Medicine* • *Plos One* • *Research in Sports Medicine* • *Sports Health: A Multidisciplinary Approach* • *The Physician and Sports Medicine*

#### Funding Agencies

*National Athletic Trainers' Association Foundation*

Research Grants Committee

Vice Chair for General Grants, 2014 to 2020

Committee member, 2011 to 2014

Ad hoc reviewer, 2008 to 2011

*National Institutes of Health:*

Small Business: Clinical Neurophysiology, Devices, Neuroprosthetics, and Biosensors (10 ZRG1 ETTN-C (10) B) Review Panel, 2015, 2016  
Challenge Grant (RFA-OD-09-003) Special Panel/Scientific Review Group (ZRG1BDCN-T(58)R), 2009

*University of Michigan Pediatric Device Consortium, 2015*

*Neurological Foundation of New Zealand, 2015*

*University of North Carolina Research Opportunities Initiative, 2014*

*Canadian Foundation for Innovation, 2013*

*Medical College of Wisconsin, Injury Research Center, 2013*

*University of Nebraska, Experimental Program to Stimulate Competitive Research, 2013*

*Natural Sciences and Engineering Research Council of Canada, Research Partnership Program, 2012, 2013*

*U.S. Army Medical Research & Materiel Command-Military Operational Medicine Research Program (USAMRMC-MOMRP), Physiological Health/Traumatic Brain Injury Portfolio, 2011, 2019*

*Hewlett International Research Travel Grants, 2010*

Conferences

*North American Brain Injury Society*

Scientific Committee, Houston, TX 2018

*National Athletic Trainers' Association Foundation*

Free Communications Committee, 2013 to 2018

Symposium Moderator 2001, 2006 to 2011

*University of Michigan Sports Concussion Summit*

Conference Director, Ann Arbor, MI, 2015, 2019

*Think Tank Conference on Sport Concussion,*

Co-organizer, Lincoln, NE, 2014

*American Academy of Neurology - The Sports Concussion Conference*

Scientific Committee, Chicago, IL, 2014

*Medicine of Cycling Annual Meeting*

Faculty and Organization Committee, Colorado Springs, CO, 2013, 2014, 2016, 2017

*International Consensus Conference on Concussion in Sport*

Consensus Panelist: 2008 (Zurich), 2016 (Berlin), 2022 (Amsterdam)

Scientific Committee: 2022 (Amsterdam)

*International Meeting on mTBI in Sports*

Faculty and Organization Committee 4th, St Moritz, Switzerland, 2008.

Committees

*American Academy of Neurology*

Concussion Quality Measurement Working Group, 2018 to 2019

*Medicine of Cycling*

Director of Research, 2015 to 2018

Concussion Task Force, Concussion in Cycling Consensus Statement, 2012

*National Collegiate Athletic Association*

Concussion Safety Advisory Group, 2019 to present

*National Institutes of Health*

International Traumatic Brain Injury (TBI) Common Data Elements Steering Committee, National Institute of Neurological Disorders and Stroke (NINDS), 2017 to present

Chair, Acute Sport Concussion Common Data Elements, National Institute of Neurological Disorders and Stroke (NINDS), 2016 to 2017

Co-chair, Pediatric Concussion Workshop, National Institute of Neurological Disorders and Stroke (NINDS), National Institute on Drug Abuse (NIDA), National Center for Medical Rehabilitation Research (NCMRR), and Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), 2016

Working Group, National Institute of Neurological Disorders and Stroke - Clinical Data Interchange Standards Consortium (NINDS-CDISC) Food and Drug Administration (FDA) Traumatic Brain Injury Standards, 2014 to 2015

*USA Cycling*

Safety Committee, 2016 to present

Consulting

*Centers for Disease Control and Prevention,*

*HEADS UP to Athletic Trainers, 2021-2023*

*Game Plan Concussion Education, 2021 to 2022*

*University of Calgary SHRed Concussions Advisory Board, 2021 to present*

*New Jersey State Police, 2021*

*US Soccer, 2019 to 2020*

*US Cycling, 2016*

*Federal Trade Commission, 2012 to 2013*

*Department of Defense Concussion Definition Consortium, External Reviewer, 2012*

*Sportsconcussions.org, Advisory Board, Seattle, WA, 2009 to 2011*

*AthletiCo Sports Medicine and Rehabilitation Clinic, Chicago, IL, 2006 to 2011*

**University Service**

*University of Michigan*

Associate Deans Planning Committee, 2023 to present

Neuroscience Graduate Program, Admissions Committee, 2022 to present

Biological Science Scholars Program, Search Committee, 2018 to present

University of Michigan Injury Prevention Center, Internal Advisory Committee, 2016 to present

MiWorkspace Advisory Committee, 2015 to 2020

University Senate Assembly, 2014 to 2017

**School / College Service**

*University of Michigan*

School of Kinesiology

Human Performance & Sport Science Center - Advisory Panel, 2023 to present

NeuroSuite Research Group, Faculty Representative, 2023 to present

Space Advisory Committee, 2020 to present

Academic Structure Review Committee, 2020

Executive Committee, 2018 to present  
Graduate Committee, 2013 to 2016 (member) and 2020-present (chair)  
Search Committees  
Athletic Training, Assistant Professor (chair), 2023 to 2024  
Bickner Endowed Faculty Search, 2023 to 2024  
Michigan Concussion Center (chair, 3 faculty lines), 2019 to 2025  
Athletic Training, Assistant Professor 2018 to 2019  
Neuroscience Assistant Professor (co-chair), 2016 to 2017  
Dean, 2015  
Design Working Group - Classroom Space, 2014 to 2015  
Health and Fitness Curriculum Committee, 2011 to 2013

*University of Illinois at Urbana-Champaign*

College of Applied Health Sciences

Elections and Credentials Committee, 2009 to 2011  
Research Computing Task Force, 2009 to 2011

**Departmental Service**

*University of Illinois at Urbana-Champaign*

Department of Kinesiology and Community Health

Committee on Course Fees, 2009  
Graduate Travel Grant Committee, 2009 to 2011  
Elections and Credentials Committee, 2009 to 2011  
Athletic Training Faculty Search Committee (co-chair), 2008  
Global Campus Committee, 2008  
Education Policy Committee, 2007 to 2010  
Committee on Wellness, 2007 to 2008

**PROFESSIONAL ORGANIZATIONS**

Concussion in Sport Group, 2022 to present  
American College of Sports Medicine, member #640343, 2007 to present  
National Athletic Trainers' Association, member # 977340, 1997 to present  
Great Lakes Athletic Trainers' Association, 2006 to present  
Southeast Athletic Trainers' Association, 2002 to 2006  
Eastern Athletic Trainers' Association, 2000 to 2002  
Mid-Atlantic Athletic Trainers' Association, 1997 to 2000  
National Provider Identifier, #1659736031, 2015 to present

**CERTIFICATIONS**

*Board of Certification*

Athletic Trainer, Certified # 060002015, 2000 to present

*National Athletic Trainers' Association*

Certified Clinical Instructor Educator, 2004 to 2011  
Approved Clinical Instructor, 2003 to 2011

*American Red Cross*

CPR/AED for the Professional Rescuer

## LICENSURE

Michigan, Department of Licensing and Regulatory Affairs, 2601001220, 2011 to present  
Illinois, Department of Financial and Professional Regulation, 96.002310, 2006 to 2012

## PATENTS

Brain Metabolism Monitoring Through CCO Measurements Using All-Fiber-Integrated Super-Continuum Source" (U.S. US 11, 529, 091 B2)  
Organ Or Tissue Hemodynamic And Metabolic Function Measured Using Super-Continuum Light Sources (US 12,089,945 B2)

## LEADERSHIP TRAINING

*Association of Public and Land-Grant Universities*  
Council on Research Leader Fellowship: 2022-2023  
*University of Michigan Center for Health and Research Transformation*  
Health Policy Fellowship: 2022  
*Big Ten Academic Alliance*  
Academic Leadership Program Fellow: 2019-2020

## HONORS AND AWARDS

- 2024 Most Distinguished Athletic Trainer Award, National Athletic Trainers Association
- 2024 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training for 2023*, for: Kay J, Coffman C, Tavakoli A, Torres-McGehee T, **Broglia S**, Moore R, Concussion exposure and suicidal ideation, planning, and attempts among U.S. high school students, *Journal of Athletic Training*, 58(9):751-758, 2023.
- 2024 Athanasiou Student Paper Award from the Biomedical Engineering Society for Lempke LB, Ermer E, Boltz AJ, Caccese JB, Buckley TA, Cameron KL, Chrisman SPD, D'Lauro C, Eckner JT, Esopenko C, Hunt TN, Jain D, Kelly LA, Memmini AK, Mozel AE, Putukian M, Susmarski A, Pasquina PF, McCrea MA, McAllister TW, **Broglia SP**, Master CL, CARE Consortium Investigators, Initial mild traumatic brain injury characteristics and recovery patterns among females across the United States military service academies: A descriptive report from the NCAA-DoD CARE Consortium, *Annals of Biomedical Engineering*, 2023.
- 2024 Policy Impact Award, University of Michigan Institute for Healthcare Policy and Innovation
- 2022 William Fields Caveness Award, Brain Injury Association of America
- 2022 Fellow of the National Academy of Kinesiology (#612)
- 2022 Medal for Distinguished Athletic Training Research, National Athletic Trainers Association Research and Education Foundation
- 2021 Best Paper in IISE Transactions Focus Issue on Operations Engineering and Analytics for: Garcia GGP, Lavieri MS, Jiang R, McCrea MA, McAllister TW, **Broglia SP**, Data-driven stochastic optimization approaches to determine decision thresholds for risk estimation models. *IISE Transactions*, 52(10): 1098-1121, 2020.
- 2021 Outstanding Research Team Award (McAllister T, **Broglia SP**, McCrea M, Pasquina P), Military Health System Research Symposium

- 2020 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training* for: McGuine T, Pfaller A, Hetzel S, **Broglia S**, Hammer E, A prospective study of the impact of concussions on health outcomes in high school football players, *Journal of Athletic Training*, 55(10):1013-1019, 2020.
- 2019 Distinguished Alumni, University of Georgia, Department of Kinesiology
- 2018 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training* for: McGuine T, Pfaller A, Post E, Hetzel S, Brooks A, **Broglia SP**, The impact of athletic trainers on the incidence and management of concussions in high school athletes, *Journal of Athletic Training*, 53(11):1017-1024, 2018.
- 2019 Majorie A. King Research to Reality Lecture, Eastern Athletic Trainers' Association 71<sup>st</sup> Conference
- 2017 Fellow of the National Athletic Trainers' Association
- 2016 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training*, 2016, for: **Broglia SP**, Williams RM, O'Connor KL, Goldstick J, Football head impact exposure after limiting full-contact practices, *Journal of Athletic Training*, 51(7):511-518, 2016.
- 2015 Early Career Award for Important Contributions to the Field of Brain Injury Science, International Brain Injury Association
- 2014 Outstanding Early Career in Injury Research Award, University of Michigan Injury Center
- 2014 Fellow of the American College of Sports Medicine
- 2010 Freddie H. Fu New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2009 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training* for: **Broglia SP**, Sosnoff JJ, Sunghoon S, He X, Alcaraz C, Zimmerman J, Helmet impacts during high school football: A biomechanical assessment, *Journal of Athletic Training*, 44(4):342–349, 2009.
- 2009 Association Media and Publishing Annual EXCEL Awards Bronze Medalist, **Broglia SP**, Sosnoff JJ, Sunghoon S, He X, Alcaraz C, Zimmerman J, Helmet impacts during high school football: A biomechanical assessment, *Journal of Athletic Training*, 44(4):342–349, 2009.
- 2009 Phillis J. Hill James Scholar Faculty Award for Exemplary Mentoring University of Illinois
- 2005 Outstanding Teaching Assistant Award, University of Georgia
- 2005 Graduate Student Scholarship, Southeast Athletic Trainers' Association
- 2003 Oral Presentation Competition Winner - Master's Student Research, "The efficacy of soccer headgear," National Athletic Trainers' Association Research and Education Foundation
- 2003 Doctoral Student Scholarship, NATA-Research and Education Foundation
- 2003 Graduate Student Scholarship, Georgia Athletic Trainers' Association
- 2001 Jerry Rhea Sports Medicine Scholarship, Atlanta Falcons
- 2000 Highest Honors graduate, Department of Exercise and Sport Science, University of North Carolina
- 2000 Highest Distinction graduate, College of Arts and Science, University of North Carolina
- 2000 Max Crowder Award, Atlantic Coast Conference
- 2000 William Tessendorf Scholarship, National Athletic Trainers' Association Research and Education Foundation

- 1999 Phi Beta Kappa
- 1999 National Society of Collegiate Scholars
- 1999 Donald Fauls Memorial Scholarship, National Athletic Trainers' Association Research and Education Foundation
- 1998 Golden Key National Honor Society, University of North Carolina at Chapel Hill

updated: February 4, 2025