

Adrian Joseph Boltz

University of Michigan – Ann Arbor, School of Kinesiology

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EDUCATION AND TRAINING

Doctor of Philosophy**Jan 2022 – Present**

University of Michigan, Ann Arbor

School of Kinesiology

Concentration: Movement Science

Master of Science in Health**Apr 2018**

University of North Florida

Concentration: Exercise Science and Chronic Disease

Thesis: Concussion Symptom Clusters and Return-To-Play time in College Athletes with Sports-

Related Concussions: 2009-2010 to 2013-2014 DISC

Bachelor of Science**May 2016**

Appalachian State University

Major: Exercise Science

Minor: Chemistry

PROFESSIONAL EMPLOYMENT

Graduate Student Research Assistant**Jan 2022 – Present**

University of Michigan at Ann Arbor: NeuroTrauma Research Laboratory and Michigan Concussion Center

Research Associate, NCAA Injury Surveillance Program**Jun 2020 – Present**

Datalys Center for Sports Injury Research and Prevention, Inc.

Clinical Research Assistant**Feb 2020 – Jun 2020**

The University of North Carolina at Chapel Hill: Center for the Study of Retired Athletes

Study Coordinator**Aug 2018 – Feb 2020**

The University of North Carolina at Chapel Hill: Matthew Gfeller Sport-Related Traumatic Brain Injury Research Center

Adjunct Faculty**Su 2018/19**

The University of North Florida: Department of Clinical and Applied Movement Sciences

Graduate Research and Teaching Assistant**Aug 2016 – Apr 2018**

The University of North Florida: Department of Clinical and Applied Movement Sciences

Physical Therapy Technician**May 2016 – Aug 2016**

Physical Therapy Institute, Inc

ONGOING RESEARCH

1. **Project Title:** National Collegiate Athletic Association Injury Surveillance Program
Principal Investigator: Avinash Chandran, PhD
Description: A program aimed to: a) describe injuries occurring from NCAA-sport participation; b) disseminate emerging trends to enhance the quality of healthcare of student-athletes; and c) advance sports injury scientific research.
Period of Performance: 8/1/2017-7/31/2022 (Pending renewal)
Role(s): Research Associate
Responsibilities: Data collector recruitment, data management, preparation of deliverables.
Site(s): Datalys Center for Sports Injury Research and Prevention, Inc.
Funding Source(s): National Collegiate Athletic Association

2. **Project Title:** National Athletic Treatment, Injury, and Outcomes Network Surveillance Program
Principal Investigators: Christy Collins, PhD
Description: A surveillance study of injuries occurring among high school student-athletes and treatments administered by athletic trainers
Period of Performance: 8/1/2021-7/31/2022 (Annual renewal)
Role(s): Research Assistant
Site(s): Datalys Center for Sports Injury Research and Prevention
Funding Source: National Athletic Trainers' Association Research and Education Fund

COMPLETED RESEARCH

1. **Study:** National High School Sports-Related Injury Surveillance Study
Principal Investigator: Christy Collins, PhD & Jason P. Mihalik, PhD
Sub-project Title: The Prevalence and Descriptive Surveillance (PADS) Study: Evaluating the role of shoulder pads in head, shoulder, chest, and neck injuries among high school football players
Period of Performance: 7/1/2021-8/06/2022
Accepted: July 2021
Role: Research Associate
Responsibilities: Data collector recruitment, data management, preparation of deliverables.
Funding Agency: National Operating Committee on Standards for Athletic Equipment
Amount Received: \$100,000

AWARDS

1. **Rackham Conference International Travel Grant**
Period of Performance: 10/26/2022-10/29/2022
Sponsor: University of Michigan
Award amount: \$1,150.00

2. **Kinesiology Conference Travel Grant**
Period of Performance: 06/28/2022-07/02/2022
Sponsor: University of Michigan
Award amount: \$800.00

3. **Rackham Conference Domestic Travel Grant**
Period of Performance: 05/31/2022-06/04/2022
Sponsor: University of Michigan
Award amount: \$900.00

PEER-REVIEWED PUBLICATIONS (34)

1. Chandran, A., Moffit, R.E., DeJong Lempke, A., **Boltz, A.J.**, Alexander, A.S., Robison, H.J., Kerr, Z.Y., Collins, C.L., Wikstrom, E.A. Epidemiology of Lateral Ligament Complex Tears in National Collegiate Athletic Association (NCAA) Sports: 2014/15-2018/19. *The American Journal of Sports Medicine*. In Print.
2. Buckley, T.A., Chandran, A., Mauntel, T.C., Kerr, Z.Y., Brown, D.W., **Boltz, A.J.**, Herman, D.C., Hall, E.E., Lynall, R.C. Post-concussion lower extremity musculoskeletal injuries in collegiate student athletes. *American Journal of Sports Medicine*. [In Press]
3. Chandran, A., **Boltz, A.J.**, Brett, B.L., Walton, S., Robison, H.J., Collins, C.L., Register-Mihalik, J.K., Mihalik, J.P. Patterns and predictors of concussion symptom presentations in NCAA sports: 2014/15-2018/19. *Research in Sports Medicine*. [In Press]
4. Williams, R.M., Huxel Bliven, K.C., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Chandran, A. Non-Time Loss and Time-Loss Injuries in Secondary School Girls' Volleyball Athletes: A Report from the NATION-SP. *Journal of Sports Rehabilitation*. [In Press]
5. Chandran, A., **Boltz, A.J.**, Morris, S.N., Robison, H.J., Nedimyer, A.K., Collins, C.L., Register-Mihalik, J.K. (2022) Epidemiology of Concussion in National Collegiate Athletic Association (NCAA) Sports: 2014/15-2018/19. *American Journal of Sports Medicine*. 50(2):526–536.
6. **Boltz, A.J.**, Powell, J.R., Robison, H.J., Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Baseball: 2014/15-2018/19. *Journal of Athletic Training* (2021) 56 (7): 742–749.
7. Chandran, A., Morris, S.N., D'Alonzo, B., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Swimming and Diving: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):711-718.
8. Veillard, K., **Boltz, A.J.**, Robison, H.J., Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Softball: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):734-741.
9. **Boltz, A.J.**, Robison, H.J., D'Alonzo, B., Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Swimming and Diving: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):719-726.
10. Bretzin, A.C, D'Alonzo, B., Chandran, A., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Morris, S.N. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Lacrosse: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):750-757.
11. Chandran, A., Roby, P.R., **Boltz, A.J.**, Robison, H.J., Morris, S.N., Collins, C.L. Epidemiology of injuries in National Collegiate Athletic Association Women's Gymnastics: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):688-694.
12. D'Alonzo, B., Bretzin, A.C., Chandran, A., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Morris, S.N. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Lacrosse: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):758-765.

13. Powell, J.R., **Boltz, A.J.**, Robison, H.J., Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Wrestling: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):727-733.
14. Chandran, A., Nedimyer, A.K., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Morris, S.N. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Ice Hockey: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):695-702.
15. Lempke, L.B., Chandran, A., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Morris, S.N. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Basketball: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):674-680.
16. Chandran, A., Morris, S.N., Lempke, L.B., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Volleyball: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):666-673.
17. Chandran, A., Morris, S.N., Lempke, L.B., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Basketball: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):681-687.
18. **Boltz, A.J.**, Nedimyer, A.K., Chandran, A., Robison, H.J., Collins, C.L., Morris, S.N. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Ice Hockey: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):703-710.
19. Chandran, A., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Cross-country: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):622-628.
20. Robison, H.J., **Boltz, A.J.**, Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Tennis: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):766-772.
21. Chandran, A., Morris, S.N., Powell, J.R., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Football: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):643-650.
22. Nedimyer, A.K., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Field Hockey: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):636-642.
23. Chandran, A., Morris, S.N., Wasserman, E.B., **Boltz, A.J.**, Collins, C.L. (2021) Methods of the National Collegiate Athletic Association Injury Surveillance Program (NCAA ISP), 2014/15 through 2018/19. *Journal of Athletic Training*. 56(7):616-621.
24. Chandran, A., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Cross-country: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):629-635.
25. Chandran, A., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Soccer: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):651-658.

26. Chandran, A., Morris, S.N., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Soccer: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):659-665.
27. Robison, H.J., **Boltz, A.J.**, Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Tennis: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):773-779.
28. **Boltz, A.J.**, Roby, P.R., Robison, H.J., Morris, S.N., Collins, C.L., Chandran, A. (2021) Epidemiology of injuries in National Collegiate Athletic Association Men's Track and Field: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):788-794.
29. Chandran, A., Morris, S.N., Roby, P.R., **Boltz, A.J.**, Robison, H.J., Collins, C.L. (2021) Epidemiology of injuries in National Collegiate Athletic Association Women's Track and Field: 2014/15-2018/19. *Journal of Athletic Training*. 56(7):780-787.
30. Powell JR, **Boltz AJ**, DeCicco JP, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, Hackney AC, & Mihalik JP. (2020). Neuroinflammatory biomarkers associated with mild traumatic brain injury history in Special Operations Forces combat Soldiers. *Journal of Head Trauma Rehabilitation*, 35(5), 300-307.
31. Churilla, J. R., Summerlin, M., Richardson, M. R., & **Boltz, A. J.** (2020). Mean Combined Relative Grip Strength and Metabolic Syndrome: 2011–2014 National Health and Nutrition Examination Survey. *The Journal of Strength & Conditioning Research*, 34(4), 995-1000.
32. Churilla, J. R., **Boltz, A. J.**, Johnson, T. M., & Richardson, M. R. (2020). Epilepsy and Physical Activity in US Adults. *Southern Medical Journal*, 113(2), 81-86.
33. Rariden, B.S., **Boltz, A.J.**, Richardson, M.R., Johnson, T.M., Brawner, C.A., Pinkstaff, S.O., Churilla, J.R. (2019) Sedentary Time and Cumulative Risk of Preserved and Reduced Ejection Fraction Heart Failure: from the Multi-ethnic Study of Atherosclerosis. *Journal of Cardiac Failure*.
34. Churilla JR, Johnson TM, Richardson MR, Williams BD, Rariden B.S., **Boltz A.J.** (2018) Mode of physical activity participation by body mass index: 2015 behavioral risk factor surveillance system. *Research in sports medicine*. Apr-Jun 2018; 26(2):147-157.

MANUSCRIPTS IN REVIEW (8)

1. **Boltz, A.J.**, Moffit, R.E., Alexander, A.S., Mihalik, J.P., Collins, C.L., Chandran, A. Bodychecking injuries in National Collegiate Athletic Association (NCAA) Men's Ice Hockey: Findings from the NCAA Injury Surveillance Program 2009/10-2019/20. *Clinical Journal of Sports Medicine*. [Under Review]
2. Scarneo-Miller, S.E., **Boltz, A.J.**, Chandran, A., Robison, H.J., DiStefano, L.J., Register-Mihalik, J.K. Modifications of Exertional Heat Illness and Lightning Policies in U.S. High School Athletics Over an Academic Year. *Sports Health*. [Under Review]
3. Dewig, D.R., **Boltz, A.J.**, Moffit, R.E., Rao, N., Collins, C.L., Chandran, A. Epidemiology of Anterior Cruciate Ligament Injuries in National Collegiate Athletic Association Athletes: 2014/15 – 2018/19. *Medicine & Science in Sports & Exercise*. [Under Review]

4. **Boltz, A.J.**, Hooper, N., Satalich, J., Cheatham, S., O'Connell, R., Rao, N., Moffit, R.E., Collins, C.L., Chandran, A. Epidemiology of Hamstring Tears in National Collegiate Athletic Association (NCAA) Sports: 2014/15-2018/19. *Clinical Journal of Sports Medicine*. [Under Review]
5. Putukian M, Black A, Anderson V, Chandran A, **Boltz AJ**, Davis G, Fremont P, Herring S, Leddy J, Maddocks D, Master CL, Premji Z, Purcell L, Register-Mihalik J, Ronksley P, Schneider K, Broglio SP. Clinical recovery from concussion: Return to school and sport, A systematic review and meta-analysis. *British Journal of Sports Medicine*. [Under Review]
6. Broglio, S.P., **Boltz, A.J.**, Memmini, A.K., Yengo-Kahn, A.M., Conway, D.P., Shah, R., McCrea, M.A., McAllister, T.W., Brett, B.L. Race and socio-economic characteristics of NCAA student-athletes – Implications for sports medicine professionals: Findings from the CARE Consortium. *Medicine & Science in Sports & Exercise*. [Under Review]
7. **Boltz, A.J.**, Memmini, A.K., Brett, B.L., Yengo-Kahn, A.M., Chandran, A., Master, C.L., McCrea, M.A., Pasquina, P.F., McAllister, T.W., Broglio, S.P. Associations between race and sport-related concussion recovery: Findings from the CARE Consortium. *Medicine & Science in Sports & Exercise*. [Under Review]
8. Memmini, A.K., **Boltz, A.J.**, Snedden, T.R., Pasquina, P.F., McAllister, T.W., McCrea, M.A., Broglio, S.P. Influence of Race on Return to Learn: Findings from the CARE Consortium. *Medicine & Science in Sports & Exercise*. [Under Review]

REFEREED ABSTRACTS (45)

1. Strydiuk RA, Balendran V, van Pelt K, Scott K, **Boltz AJ**, Lempke LB, Vesia M, Giordani B, McCrea M, McAllister T, Broglio SP. Examining The Effect Of MRI Use On Sport-related Concussion Recovery Among Collegiate Student Athletes. American College of Sports Medicine Annual Meeting (2023). Poster Presentation. *Accepted*.
2. Rao, N., **Boltz, A.J.**, Collins, C.L., Chandran, A. Epidemiology Of Concussions In NCAA Football By Time In Season: 2009/10 To 2018/19. Accepted for presentation American College of Sports Medicine Annual Meeting - 2023. *Accepted*.
3. Chandran, A., **Boltz, A.J.**, Lempke, L.B., Rao, N., Alexander, A.S., Northam, W., DiPietro, L., Collins, C.L. Determinants of Clinical Presentations and Outcomes following Concussions in High School Sports. Accepted for presentation American College of Sports Medicine Annual Meeting – 2023. *Accepted*.
4. Broglio, S.P., **Boltz, A.J.**, Rao, N., Wiebe, D.J., Collins, C.L., Chandran, A. Clustering Of Sport-Related Concussion Rates By Season Segment In National Collegiate Athletic Association Sports: Findings From The NCAA Injury Surveillance Program Between 2013/14-2018/19. American College of Sports Medicine Annual Meeting- 2023. *Accepted*.
5. Sinnott AM, Collins CL, **Boltz AJ**, Robison HJ, Pinapaka H, Mihalik JP: Comparison of Head Impact Kinematics for Head Impacts Initiated by Helmets and Shoulder Pads Among High School American Football Athletes. National Athletic Trainers' Association Convention and Symposia. Indianapolis, IN. June 21-24, 2023. *Accepted*.

6. Memmini, A.K., Snedden, T.R., **Boltz, A.J.**, Benson, B.B., Margolin, E, McCrea, M.A., McAllister, T.W., Broglio, S.P., & CARE Consortium Investigators. Return-to-learn following a sport-related concussion among student-athlete enrolled in the NCAA-DoD CARE Consortium. *American College of Sports Medicine 2023 Annual Meeting and World Congress*. Denver, CO (in press).
7. **Boltz A.J.**, Chandran, A, Srydiuk R.A., Lempke L.B., McAllister T.W., McCrea M.A., Broglio S.P. Differences in time to unrestricted return to play time between concussion in helmeted and non-helmeted sports. *American College of Sports Medicine Annual Meeting- 2023. Accepted.*
8. Rao N, **Boltz A.J.**, Collins C.L., Chandran A. Epidemiology of Lower Back Injuries in NCAA sports: 2009/10-2018/19. National Athletic Trainers' Association Clinical Symposia & AT Expo - 2023. (Poster Presentation) *Accepted.*
9. **Boltz A.J.**, Rao N., Bretzin A.C., Beisecker L., Collins C.L., Broglio S.P., Chandran A. Sleep/Affective symptoms and symptom resolution time in NCAA sports: 2014/15-2018/19. National Athletic Trainers' Association Clinical Symposia & AT Expo - 2023. (Poster Presentation).
10. Lempke L.B., Garcia G.P., **Boltz A.J.**, Srydiuk R., McAllister T.W., McCrea M.A., Pasquina, P.F., Broglio S.P. Three Latent Factors Supersede Outcomes from Concussion Baseline and Post-Injury Assessments: Findings from the Concussion Assessment, Research, and Education (CARE) Consortium. National Athletic Trainers' Association Clinical Symposia & AT Expo - 2023. (Poster Presentation) *Accepted.*
11. Collins, C.L., Robison, H.J., **Boltz, A.J.**, Felix, W., Morath, B., Chandran, A. Increased Utilization of Healthcare Professionals in the Assessment and Management of Sport-Related Concussions in United States High Schools, 2005/06 through 2020/21 Academic Years. 6th International Consensus Conference on Concussion in Sport. (Poster Presentation) *Accepted.*
12. **Boltz, A.J.**, Memmini, A.K., Brett, B., McCrea, M.A., McAllister, T., Broglio, S.P. Differences in return to play time by race and sport type among university student-athletes: findings from the Concussion Assessment, Research, and Education (CARE) Consortium. 6th International Consensus Conference on Concussion in Sport. (Podium Presentation) *Accepted.*
13. Walker, S., Chandran, A., **Boltz, A.J.**, Meehan, W. Time-loss epidemiology of injuries in collegiate women's gymnastics. 31st Annual Meeting American Medical Society for Sports Medicine. (Poster Presentation) *Accepted.*
14. Robison HJ, **Boltz AJ**, Chandran A, Collins CL. COVID-19 infection characteristics and control policies in United States secondary school athletic programs: A report from the National High School Sports-Related Injury Surveillance Study. Accepted for presentation at the National Athletic Trainers' Association Clinical Symposia & AT Expo - 2022. *Accepted.*
15. Chandran A, **Boltz A.J.**, Robison H.J., Collins C.L. Comparing Clinical Presentations of Concussions in High School Girls' Sports: 2014/15-2018/19. Accepted for presentation at the National Athletic Trainers' Association Clinical Symposia & AT Expo - 2022. *Accepted.*
16. Kossman, M.K., Walton, S.R., **Boltz, A.J.**, Collins, C.L., Lempke, L.B., Robison, H.J., Chandran, A. Major activity restriction following musculoskeletal injury in collegiate basketball: Findings from the NCAA-ISP between 2009/10-2018/19. Accepted for poster presentation at American College of Sports Medicine Annual Meeting- 2022. *Accepted.*

17. Kossman, M.K., Walton, S.R., **Boltz, A.J.**, Collins, C.L., Lempke, L.B., Robison, H.J., Chandran, A. Time-loss after Musculoskeletal Injuries Sustained by Women's and Men's Collegiate Basketball Players: Findings from the NCAA-ISP between 2009/10-2018/19. Accepted for presentation at the National Athletic Trainers' Association Clinical Symposia & AT Expo - 2022. *Accepted*.
18. Chandran, A., **Boltz, A.J.**, Walton, S.R., Robison, H.J., Nedimeyer, A.K., Kerr, Z.Y., Weight, E.A., Collins, C.L., Mihalik, J.P., DeFreese, J.D., Carneiro, K.A. Injury incidence and health status among female soccer athletes across the lifespan: Insights from injury surveillance and a general health survey of former women's soccer athletes. Society for Advancement of Violence and Injury Research. (Poster Presentation) *Accepted*
19. Collins, C.L., Robison, H.J., **Boltz, A.J.**, Chandran, A. Epidemiology of Injuries Sustained by High School Softball and Baseball Pitchers, 2005-06 through 2019-20. Accepted for poster presentation at American College of Sports Medicine Annual Meeting- 2022. *Accepted*.
20. **Boltz, A.J.**, Chandran, A., Robison, H.J., Collins, C.L., Mihalik, J.P. Post-Traumatic Migraine Following Projectile and Surface Contact in National Collegiate Athletic Association Sports: 2009/10-2018/19. Accepted for presentation at the National Athletic Trainers' Association Clinical Symposia & AT Expo - 2022. *Accepted*.
21. **Boltz, A.J.**, Chandran, A., Robison, H.J., Collins, C.L., Broglio, S.P. Audio-vestibular concussion symptoms and symptom resolution time in helmeted and non-helmeted NCAA sports: 2014/15 – 2018/19. Accepted for poster presentation at American College of Sports Medicine Annual Meeting- 2022. *Featured Abstract selected for Clinician's Reception*.
22. Hooper, N., **Boltz A.J.**, Protzuk, O., Cheatham, S. O'Connell, R., Chandran, A. Epidemiology of multi-ligament knee tear injuries in NCAA Sports: 2009/10-2018/19. The 75th Annual Virginia Orthopedic Society Conference. (Poster Presentation) *Accepted*
23. Hooper, N., **Boltz A.J.**, Protzuk, O., Poulos, N., Cheatham, S. O'Connell, R., Chandran, A. Epidemiology of Operative Shoulder Injuries in NCAA Sports: 2014/15-2018/19. The 75th Annual Virginia Orthopedic Society Conference. (Poster Presentation) *Accepted*
24. Dewig, D.R., Chandran, A., **Boltz, A.J.**, Robison, H.J., Collins, C.L., Blackburn, T.J. Epidemiology of Anterior Cruciate Ligament Injuries in National Collegiate Athletic Association Athletes: 2014/15 – 2018/19. Annual American College of Sports Medicine. (Poster Presentation) *Accepted*
25. **Boltz, A.J.**, Robison, H.J., Collins, C.L., Chandran, A. Associations among concussion symptoms in Helmeted and Non-Helmeted NCAA sports: 2014/15-2018/19. The 11th Annual Traumatic Brain Injury Conference. (Poster Presentation) *Accepted*
26. Hooper, N., **Boltz, A.J.**, Wait, J., Cheatham, S., O'Connell, R., Chandran, A. Epidemiology of Hamstring Tears in NCAA Sports: 2014/15-2018/19. American Orthopaedic Society for Sports Medicine Annual Meeting. *Accepted*
27. Nicolosi, C., Heronemus, M., Stokes, D., Collins, C.L., Robison, H.J., Chandran, A., **Boltz, A.J.**, Meron, A. Positional Differences In Concussion Frequency And Return To Play Length Amongst High School Football Players. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*

28. Stokes, D., **Boltz, A.J.**, Robison, H.J., Chandran, A., Collins, C.L., Heronemus, M., Nicolosi, C., Meron, A. Musculoskeletal Injury Risk Following Concussion Recovery In High School Athletes. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
29. Chandran, A., **Boltz A.J.**, Nedimeyer, A.K., Robison H.J., Morris, S.N., Collins, C.L, Register-Mihalik, J.K. Concussion Incidence in NCAA sports: 2014/15-2018/19. National Athletic Trainers' Association Clinical Symposia & AT Expo. (Oral Communication) *Accepted*
30. Chandran, A., **Boltz A.J.**, Robison H.J., Nedimeyer, A.K., Morris, S.N., Collins, C.L, Wikstrom, E.A. The Epidemiology Of Lateral Ligament Complex Tears In NCAA Sports: 2014/15-2018/19. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
31. Nedimeyer, A.K., Chandran, A., Robison H.J., **Boltz A.J.**, Morris, S.N., Kerr, Z.Y., Collins, C.L. Epidemiology Of Lower Extremity Injuries In National Collegiate Athletic Association Women's Field Hockey: 2014/15-2018/19. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
32. **Boltz, A.J.**, Robison H.J., Morris, S.N., Collins, C.L., Chandran A. Injury History Profile of Hip Impingement in NCAA sports: 2009/10-2019/20. National Athletic Trainers' Association Clinical Symposia & AT Expo. (Oral Communication) *Accepted*
33. **Boltz A.J.**, Robison H.J., Chandran A, Morris, S.N., Collins, C.L., Mihalik, J.P. Epidemiology of Bodychecking injuries in NCAA Men's Ice Hockey: 2009/10-2018/19. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
34. Scarneo-Miller SE, **Boltz A**, Chandran A, Lincoln AE, Robison H, Register-Mihalik, DiStefano LJ. Modifications of Exertional Heat Illness Policies in US High School Athletics Over an Academic Year. MSSE; 2021:53(5S):XXX-XXX. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
35. Robison, H.J., **Boltz, A.J.**, Morris, S.N., Collins, C.L., Chandran, A., Distribution of athletic trainer services across ankle, knee, and lower leg injuries in secondary school student-athletes: 2014/15-2018/19. *Selected oral presentation at the 2021 Great Lakes Athletic Trainers Association Annual Meeting. Accepted*
36. Powell JR, Chandran A, **Boltz AJ**, DeLellis SM, Kane SF, Lynch JH, Means GE, & Mihalik JP. (2020). The relationship between neurofilament light and white matter tract microstructure in Special Operations Forces combat soldiers. *2020 Military Health System Research Symposium (MHSRS)*, Kissimmee, FL. (August 24-27, 2020). *Accepted*
37. Petersen, A.P., **Boltz, A.J.**, Harris, M.H., Kaufer, D.I. Figure Copy and Recall Profiles Help Distinguish Alzheimer's Disease, Frontotemporal Degeneration, and Dementia with Lewy Bodies. American Academy of Neurology Annual Meeting. *Accepted*
38. **Boltz AJ**, Powell JR, DeCicco JP, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & Mihalik JP. Neuron Specific Enolase and mTBI history in US Army Special Operation Forces Personnel. Special Operations Medical Association Scientific Assembly. (Oral Presentation) *Accepted*

39. Powell, J.R., **Boltz, A.J.**, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & Mihalik JP. Serum S100B is Increased in Special Operations Forces Combat Soldiers With Mild Traumatic Brain Injury History. National Athletic Trainers' Association Clinical Symposia & AT Expo. (Oral Presentation) *Accepted*
40. Powell, J.R., **Boltz, A.J.**, DeCicco JP, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & Mihalik JP. Neurofilament Light Not Associated with Concussion History or Recency in Special Operations Forces Combat Soldiers. American College of Sports Medicine Annual Meeting. (Oral Presentation) *Accepted*
41. DeCicco JP, **Boltz AJ**, Powell JR, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & Mihalik JP. The Relationship Between Interleukin-6 and Cerebrovascular Reactivity Measures in Special Operations Forces Soldiers. Special Operations Medical Association Scientific Assembly. (Oral Presentation) *Accepted*
42. DeCicco JP, **Boltz AJ**, Powell JR, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & Mihalik JP. The Relationship Between Serum Interleukin-6 and Concussion History in Special Operations Forces Soldiers. National Athletic Trainers' Association Clinical Symposia & AT Expo. (Poster Presentation) *Accepted*
43. **Boltz, A.J.**, Feinberg, M.H., Smith, T.D., Johnson, T.M. Richardson, M.R., Churilla, J.R. Concussion Symptom Clusters and Return-To-Play Time in College Athletes with Sports-Related Concussions: 2009-2010 and 2013-2014 DISC. SEACSM Annual Meeting, Chattanooga, TN (Master's Award nomination) and ACSM Annual Meeting, Minneapolis, MN. *Medicine & Science in Sports & Exercise*. 50:2018. *Accepted*
44. **Boltz, A.J.**, Rariden, B.S., Williams, B.D., Johnson, T.M., Richardson, M.R., Churilla, J.R. Prevalence of Leisure Time Physical Activity in Adults with Seizure Disorders: 2013 and 2015 NHIS. SEACSM Annual Meeting, Greenville, SC, 2017 and ACSM Annual Meeting, Denver, CO, 2017. *Medicine & Science in Sports & Exercise*. 49:2017. *Accepted*
45. Rariden, B.S., **Boltz, A.J.**, Williams, B.D., Richardson, M.R., Johnson, T.M., Churilla, J.R. Muscle Strengthening Activity, C-Reactive Protein, and Type 2 Diabetes: 1999-2006 NHANES. SEACSM Annual Meeting, Greenville, SC, 2017 and ACSM Annual Meeting, Denver, CO, 2017. *Medicine & Science in Sports & Exercise*. 49:2017. *Accepted*

Seminars and Invited Talks

1. **Boltz, AJ**, Chandran, A. Insights into Sport-Related Concussions from Sports Injury Surveillance. *EarlyTBI Conference– October, 2022.*

TEACHING

Instructor

Pathophysiology for Health Science (Undergraduate)

Su 2018/19

The University of North Florida, College of Arts & Science, Department of Clinical and Applied Movement Sciences

Laboratory Methods in Exercise Physiology (Undergraduate) **Fa 2017**
 The University of North Florida, College of Arts & Science, Department of Clinical and Applied Movement Sciences

Teaching Assistant

Medical Exercise Physiology Laboratory ECG (Graduate) **Sp 2018**
 The University of North Florida, College of Arts & Science, Department of Clinical and Applied Movement Sciences

Cardiovascular Exercise Physiology and ECG (Graduate) **Sp 2018**
 The University of North Florida, College of Arts & Science, Department of Clinical and Applied Movement Sciences

Exercise Physiology and Laboratory Techniques (Graduate) **Fa 2017**
 The University of North Florida, College of Arts & Science, Department of Clinical and Applied Movement Sciences

Guest Lecturer

AT 613 – Special Topics (Graduate) **Fa/Win 2022**
 University of Michigan at Ann Arbor, School of Kinesiology

SERVICE

Peer-reviewer

Journal of Physical Activity and Health
 Journal of Athletic Training

MENTORED STUDENTS

Research Mentorship

Carlin Pendall **Current**
Role: Primary research advisor in role as student researcher in the Neurotrauma Lab, Michigan Concussion Center, University of Michigan, Ann Arbor.

Alvin Anand **Current**
Role: Primary research advisor in role as student researcher in the Neurotrauma Lab, Michigan Concussion Center, University of Michigan, Ann Arbor.

PROGRAMMING AND COMPUTER LITERACY

Statistical Analysis Software

Experienced in programming for data management and statistical analyses

R

Experienced in programming for data management, statistical analyses, and data visualization

Microsoft Office Suite

Proficient in use of Microsoft Word, Excel, PowerPoint, and Access for various needs

PROFESSIONAL SOCIETIES

National Athletic Trainer's Association **2020-Present**
American College of Sports Medicine **2016-Present**
Midwest Chapter of the American College of Sports Medicine **2021-Present**

**Delta Tau Delta Fraternity
Southeast Chapter of the American College of Sports Medicine**

**2012-Present
2016-2018**

MEDIA

Michigan Concussion Center

Aug 2022

“Social & Cultural Disparities of Concussion: Considerations for Future Implications” – A full summary of the presentation with a panel of concussion experts.

Michigan Concussion Center

July 2022

“Racial and Socioeconomic Considerations for Concussion Evaluation and Management” – A full summary of the presentation with a panel of concussion experts.

Michigan Concussion Center

Feb 2022

“Concussion and Long Term Neurological Health” – A full summary of the presentation with a panel of concussion experts.