# XAVIER THOMPSON, PHD, ATC

# CONTACT INFORMATION

Louisiana State University School of Kinesiology 2146 HPL Field House xthompsor	n@lsu.edu
EDUCATION	
University of Virginia	
Ph.D. in Education- Kinesiology: Sports Medicine	2020-2024
Dissertation: "The Clinical Utility of Torque-Velocity Relationships Following	
Anterior Cruciate Ligament Reconstruction"	
University of Kentucky	
Master of Science in Athletic Training	2015-2017
Graduate Research Thesis: "Relationship Between Rate of Torque Development	
and Vertical Jump Performance"	
The Ohio State University	
Bachelor of Science in Athletic Training	2011-2015
RESEARCH EXPERIENCE	
Lousiana State University	
Assistant Professor of Sports Science	2024-pres
Tenure Track Assistant professor within the School of Kinesiology	
University of Virginia	
Graduate Research Assistant	2020-2024
For research and as a service to the local community, collected post-surgical ACL	R
data as a part of the Lower Extremity Assessment Protocol. Experienced in data	
collection and administrative duties for a variety of protocols.	
Clinical Research Trainee/ Coordinator	2018-2020
Served as administrator for Sports as a Laboratory Assessment Model, employing	5
concussion test batteries for athletes at pre- and post-injury. Performed	
administrative duties and assisted in data collection for studies using	
neurocognitive tests, postural control measures, instrumented mouthguards,	
novel ecological momentary assessments, MRI, and PET/CT.	
University of Kentucky Graduate Student	2015-2017
Completed Biodex testing as well as a jump testing protocol utilizing a contact	2013-2017
mat system within the Musculoskeletal Laboratory	
The Ohio State University	
MOVES Biomechanics Lab Assistant	2014-2015
Assisted with projects including the functional pre-participation evaluation	
initiative and biomechanical analysis of athletic teams and labeled models with	
Vicon 3D imaging software	

## SCHOLARSHIP

**Refereed Journal Publications** 

- 1. Bruce Leicht AS, **Thompson XD**, Queen RM, Rodu J, Higgins MJ, Cross KM, Werner BC, Resch JE, Hart JM. Analysis of Limb Loading and Lower Extremity Strength Recovery Across Time Following Anterior Cruciate Ligament Reconstruction. *Sports Health*. 2024. (In Press).
- 2. Bruce Leicht AS, **Thompson XD**, Queen RM, Rodu J, Higgins MJ, Cross KM, Werner BC, Resch JE, Hart JM. Comparison of Limb Loading Characteristics and Subjective Functional Outcomes Between Sexes Following ACLR. JAT. (In Press).
- Prinz NW, Thompson XD, Bruce Leicht AS, Kuenze CM, Hart JM. Associations Between Race & Socioeconomic Status, Lower Extremity Strength, and Patient Reported Outcomes Following Anterior Cruciate Ligament Reconstruction. *Journal of Athletic Training*. (in press online early)
- Hopper HM, Bruce Leicht AS, Thompson XD, Gwathmey FW, Miller MD, Werner BC, Brockmeier SF, Diduch DR, Hart JM. The effect of factors from different time points on psychological readiness following ACL reconstruction. Physical Therapy in Sport. 2024;67:161-166. doi:10.1016/j.ptsp.2024.05.002
- DeJong Lempke AF, Stephens SL, Thompson XD, Hart JM, Hyrvniak DJ, Rodu JS, Hertel J. Transference of outdoor gait-training to treadmill running biomechanics and strength measures: A randomized controlled trial. Journal of Biomechanics. 2024;168:112095. doi:10.1016/j.jbiomech.2024.112095
- Moran TE, Ramamurti P, Wells DK, Thompson X, Hart JM, Diduch DR, Brockmeier SF, Miller MD, Gwathmey FW, Werner BC. No Deficits in Functional Outcomes of the Contralateral Limb Are Seen When the Hamstring Is Harvested for Augmentation of Small Diameter Ipsilateral Hamstring Autograft. Arthroscopy, Sports Medicine, and Rehabilitation. 2023;5(5):100798. doi:10.1016/j.asmr.2023.100798
- 7. **Thompson XD**, Bruce Leicht AS, Hopper HM, Kaur M, Diduch DR, Brockmeier SF, MD Miller, Gwathmey FW, Werner BC, Hart JM. Knee Extensor Torque-Velocity Relationships following Anterior Cruciate Ligament Reconstruction. Clinical Biomechanics. 2023;108:106058. doi:10.1016/j.clinbiomech.2023.106058
- Bruce Leicht AS, Thompson XD, Kaur M, Hopper HM, Stolzenfield RJ, Wahl AJ, Sroufe MD, Werner BC, Diduch DR, Gwathmey FW, Brockmeier SF, Miller MD, Hart JM. Hip Strength Recovery After Anterior Cruciate Ligament Reconstruction. Orthop J Sports Med. 2023;11(7):23259671231169196. Published 2023 Jul 7. doi:10.1177/23259671231169196
- Sroufe MD, Sumpter AE, Thompson XD, Moran TE, Bruce Leicht AS, Diduch DR, Brockmeier SF, Miller MD, Gwathmey FW, Werner BC, Pietrosimone B, Hart JM. Comparison of Patient-Reported Outcomes, Strength, and Functional Performance in Primary Versus Revision Anterior Cruciate Ligament Reconstruction [published online ahead of print, 2023 May 22]. Am J Sports Med. 2023;3635465231169535. doi:10.1177/03635465231169535

- Troiano M; Thompson X, Boukhechba M, Hertel J, Resch JE. An Absence of Persistent Postural Stability Deficits Following a Sport Concussion in Collegiate Athletes. Journal of Head Trauma Rehabilitation. 2023 doi: 10.1097/HTR.00000000000873
- Neumann KD, Seshadri V, Thompson XD, Broshek DK, Druzgal J, Massey JC, Newman B, Reyes J, Simpson SR, McCauley KS, Patrie J, Stone JR, Kundu BK and Resch JE. Microglial activation persists beyond clinical recovery following sport concussion in collegiate athletes. Front. Neurol. (2023) 14:1127708. doi: 10.3389/fneur.2023.1127708
- DeJong Lempke AF, Stephens SL, Fish PN, Thompson XD, Hart JM, Hryvniak DJ, Rodu JS, Hertel J. Sensor-Based Gait-Training to Reduce Contact Time for Runners with Exercise-Related Lower Leg Pain: A Randomised Controlled Trial. BMJ Open Sport & Exercise Medicine. 2022;8:e001293. doi:10.1136/bmjsem-2021-001293.
- 13. **Thompson XD**, Newman TM, Donahue CC, Erdman NK, Statuta SM, Resch JE. Kinesiophobia Is Related to Acute Musculoskeletal Injury Incidence Following Concussion. Journal of Sport Rehabilitation. Published online September 01, 2022. doi:10.1123/jsr.2022-0134
- 14. **Thompson XD**, Bruce AS, Kaur M, et al. Disagreement in Pass Rates Between Strength and Performance Tests in Patients Recovering From Anterior Cruciate Ligament Reconstruction. Am J Sports Med. 2022;50(8):2111-2118. doi:10.1177/03635465221097712
- 15. **Thompson XD**, Erdman NK, Walton SR, Broshek DK, Resch JE. Reevaluating clinical assessment outcomes after unrestricted return to play following sport-related concussion, *Brain Injury*, 2021;35:12-13, 1577-1584, DOI: 10.1080/02699052.2021.1975818
- 16. **Thompson XD**, Gabler CM, Mattacola, CG. The Relationship Between Rate of Torque Development and Vertical Jump Performance: Possible Implications for ACL Injury?. *Athletic Training and Sports Health Care*. 2021; 13(3): 136–143.
- 17. **Thompson XD**, DiAntonio B. Returning a Division I Hurdler to Sport after Multiple Knee Ligament Injuries. *International Journal of Athletic Therapy and Training*. 2020;1(26-31)
- Gabler, LF, Huddleston, SH, Dau, NZ, Lessley DJ, Arbogast KB, Thompson XD, Resch JE, Crandall JR. On-Field Performance of an Instrumented Mouthguard for Detecting Head Impacts in American Football. Ann Biomed Eng (2020). <u>https://doi.org/10.1007/s10439-020-02654-2</u>
- 19. **Thompson XD,** Hunt TN. The Relationship Between Age and GPA on Exerted Effort During Baseline Concussion Assessment. *Athletic Training and Sports Health Care*. 2017;9(2):81-88

## **Refereed Abstracts/Presentations**

International

 Hopper HM, Bruce AS, Thompson XD, Hart JM. The Mechanism of Injury's Role in Jump Landing Mechanics After Anterior Cruciate Ligament Reconstruction. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine Congress, Boston, MA. June 2023 National

- 1. **Thompson XD**, Bruce Leicht AS, Hart J. The Torque-velocity Relationship and Predicting Function Following ACLR. Thematic Poster. American College of Sports Medicine Annual Meeting. Boston MA. May 2024.
- Bruce Leicht AS, Thompson XD, Queen RM, Rodu J, Higgins MJ, Cross KM, Werner BC, Resch JE, Hart JM. Prognostic Value of Limb Loading During Early Functional Assessment For Predicting Later Jump Landing Performance Following ACLR. Thematic Poster. American College of Sports Medicine Annual Meeting. Boston, MA. May 2024.
- 3. DelBiondo GM, Kelly DK, Smith-Ryan AE, **Thompson X**, Hart JM. "Evaluating Sex Differences In Quadriceps Muscle Fatiguability After Anterior Cruciate Ligament Reconstruction" American College of Sports Medicine Annual Conference, Boston, MA. May 2024.
- 4. Mishra M, Thoma L, Charity D, **Thompson X**, Hart J, Baez S. Do Kinesiophobia Levels during Recovery Change after Primary Vs. Secondary ACL Reconstruction?. Poster Presentation. Combined Sections Meeting. Boston, MA. Feb 2024.
- 5. **Thompson XD**, Bruce Leicht AS, Kuenze C, Hart JM. Psychological Readiness Among Patients Following ACLR and ACLR Revision Surgery. National Athletic Trainer's Association Annual Meeting and Clinical Symposium, Indianapolis, IN. June 2023.
- Thompson XD, Bruce Leicht AS, Hart JM. Torque-Velocity Relationship Differences During Isokinetic Extension Between ACL Reconstructed and ACL Revision Knees. Poster Presentation. American College of Sports Medicine Annual Meeting, Denver, CO. May 2023.
- Bruce Leicht AS, Kelly DK, Thompson A, Thompson XD, Hart JM. Differences In Single-leg Balance Measures Between Individuals Following Anterior Cruciate Ligament Reconstruction and Healthy Controls. Poster Presentation. American College of Sports Medicine Annual Meeting, Denver, CO. May 2023.
- 8. **Thompson XD**, Bruce AS, Kaur M, Hopper HM, Hart JM. Knee Extensor Force Velocity Relationship is altered in patients recovering from ACLR. National Athletic Trainer's Association Annual Meeting and Clinical Symposium, Philadelphia, PA. June 2022.
- 9. Bruce AS, **Thompson XD**, Kaur M, Hart JM. Hip Strength Recovery During Rehabilitation after ACL Reconstruction. National Athletic Trainers' Association Annual Meeting and Clinical Symposium. Philadelphia, PA. June 2022.
- Bruce AS, Thompson XD, Kaur M, Hart JM. The Relationship Between Lower Extremity Strength Ratios and Patient Reported Function After Anterior Cruciate Ligament Reconstruction. American College of Sports Medicine Annual Meeting, San Diego, CA. June 2022.
- 11. **Thompson XD**, Bruce AS, Kaur M, Hopper HM, Hart JM. Patient Reported Outcomes Among Patients With Disagreeing Pass Rates Among Performance Tests In Patients With ACLR. American College of Sports Medicine Annual Meeting, San Diego, CA. June 2022.

- 12. **Thompson XD**, Bruce AS, Hopper HM, Hart JM. Pass rates among different components of return to sports test batteries after ACLR in Adolescent Patients. ACL Research Retreat IX: The Pediatric Athlete. Conference. March 2022.
- 13. Bruce AS, **Thompson XD**, Kaur M, Hart JM. Physical Activity Level and Sex Differences Impacting Pediatric Patient Outcomes After Anterior Cruciate Ligament Reconstruction (ACLR). ACL Research Retreat IX: The Pediatric Athlete. Conference. March 2022.
- 14. Hopper HM; Bruce AS MS; **Thompson XD** MS, ATC; Hart JM PhD, ATC. Mechanism Of Injury Impact On Outcome Following ACL Reconstruction In Adolescents ACL Research Retreat IX: The Pediatric Athlete. Conference. March 2022
- 15. Kaur, M., Krepkovich, E., Richardson, N., Olowin, A., Manalich, P., Bruce, A., **Thompson, X.,** Saliba, S., Hart, J. Video Game-Based EMG-Biofeedback in Patients with Knee Osteoarthritis. Poster Presentation. Combined Sections Meeting. February 2022.
- 16. Thompson XD, Bruce AS, Hopper HM, Sullivan JL, Hart JM. Disagreement in Pass Rates Among Different Components of Return to Sports Test Batteries After ACLR. National Athletic Trainer's Association Annual Meeting. Virtual Conference. June 2021. (NATA Foundation Post-Professional Terminal Degree Student Free Communication Award Winner)
- Bruce AS, Thompson XD, Hopper HM, Stolzenfeld RL, Moler CB, Wahl AJ, Hart JM. Weight Distribution Progression During Bilateral Squatting Tasks Post-Anterior Cruciate Ligament Reconstruction. Poster Presentation. American College of Sports Medicine Annual Meeting. Virtual Conference. June 2021.
- Thompson, XD, Bruce, AS, Hart, JM. Force Velocity Modulation Differences During Isokinetic and Isometric Extension Between ACL Reconstructed and Healthy Knees. Poster Presentation. American College of Sports Medicine Annual Meeting. Virtual Conference. June 2021.
- 19. Bruce AS, **Thompson XD**, Hopper HM, Stolzenfeld RL, Moler CB, Wahl AJ, Hart JM. Weight Distribution Progression During Bilateral Squatting Tasks Post-Anterior Cruciate Ligament Reconstruction. Poster Presentation. American College of Sports Medicine Annual Meeting. Virtual Conference. June 2021.
- 20. Monge JL, Donahue CC, Erdman NK, **Thompson XD**, Walton SR, Resch JE. Concussion Modifiers Associated with Prolonged Recovery from Sport Concussion. National Athletic Trainer's Association Annual Meeting. Virtual Conference. June 2021.
- 21. Newman TM, Donahue CC, **Thompson XD**, Resch JE. The Effects of the COVID-19 Pandemic on ImPACT Performance in Collegiate Athletes. National Athletic Trainer's Association Annual Meeting. Virtual Conference. June 2021.
- 22. **Thompson XD**, Erdman NK, Walton SR, Resch JE. Kinesiophobia is Unrelated to Acute Musculoskeletal Injury Incidence Post-Concussion. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Virtual Conference. July 2020.

- 23. **Thompson XD**, Erdman NK, Walton SR, Resch JE. Persistent Neurological Impairment Six Months Following Unrestricted Return-to-Play from Concussion. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. June 2019.
- 24. Carrington H, **Thompson XD**, Erdman NK, Walton SR, Resch JE. Predicting Time to Symptom Resolution in Collegiate Athletes Diagnosed with Sport Concussion: A Cross Validation Study. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. June 2019.
- 25. Carrington HW, Broshek DK, Erdman NK, Thompson XD, Walton SR, Resch JE. The Influence of Hormonal Contraceptives on Baseline ImPACT Performance. Society of Neurological Surgeons (SNS) 110<sup>th</sup> Annual Meeting, Seattle, Washington. May 2019.
- 26. Manetz K, Walton SR, Erdman NK, **Thompson XD**, Resch JE. The Influence of Concussion History on Kinesiophobia in Collegiate Athletes. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. June 2019.
- 27. Monge J, Green RM, Walton SR, Erdman NK, Thompson XD, Marshall AN, Hertel JN, Resch JE. Predicting Time to Symptom Resolution in Collegiate Athletes Diagnosed with Sport Concussion: A Cross-Validation Study. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. June 2019
- 28. Memmini AM, **Thompson XD**. Keeping Runners Healthy: Environmental and Overuse Injuries. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, New Orleans, LA. June 2018.
- 29. **Thompson XD**, DiAntonio B, TL Uhl. Returning a Division I Hurdler to Sport after Multiple Knee Ligament Injury. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Houston, TX. June 2017.
- 30. Memmini AK, DiAntonio B, **Thompson XD**, Black WS. Insidious onset of a grade III femoral stress fracture in a Division I male cross-country runner athlete. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Houston, TX. June 2017.
- 31. Thompson XD, Clifton DR, Onate JA. Relationship Between Weight-Bearing Ankle Dorsiflexion and Deep Squat Performance. National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. June 2015.
- Thompson XD, Hunt TN. The Relationship Between Age and GPA on Exerted Effort During Baseline Concussion Assessment. American College of Sports Medicine Annual Meeting, Orlando, FL. May 2014

State

 Wahl AJ, Thompson XD, Hart JM. A Comparison of Return to Sport Measures Following ACL Reconstruction in Patients With and Without Postoperative Complications. Poster Presentation. Virginia Orthopaedic Society Annual Meeting, May 3-5, 2024, Tysons Corner, VA

- Le RT, Marcum WA, Almario AN, Thompson XD, Cross K, Moler C, Gwathmey FW, Werner BC, Su CA, Kuenze C. Area Deprivation Index is Associated with Knee Function and Psychological Readiness for Sport during Early, Mid, and Late Rehabilitation after ACL Reconstruction. Accepted for Oral Podium Presentation. Virginia Orthopaedic Society Annual Meeting, May 3-5, 2024, Tysons Corner, VA
- Hopper HM, Bruce Leicht AS, Thompson XD, Gwathmey FW, Brockmeier SF, Miller MD, Werner BC, Diduch DR, Hart JM. Influences on Psychological Readiness to Return to Play Following Anterior Cruciate Ligament Reconstruction. Virginia Orthopaedic Society 76th Annual Meeting, Hot Springs, VA. April 2023
- 4. **Thompson XD**, Bruce AS, Hopper HM, Hart JM. Disagreement in Pass Rates Among Different Components of Return to Sports Test Batteries After ACLR. Virginia Athletic Trainer's Association Annual Meeting. Virtual Conference. January 2022. **(Doctoral Student Presentation Award Winner)**
- 5. Bruce AS, **Thompson, XD**, Hopper, HM, Stolzenfeld, RL, Moler, CB, Wahl, AJ, Hart, JM Sideto-Side differences in Squat Symmetry after ACL-Reconstruction. Virginia Athletic Trainers' Association. Poster Presentation. January 2022.

University

- 1. **Thompson XD**, Bruce AS, Kaur M, Hopper HM, Hart JM. Patient Reported Outcomes Among Patients With Disagreeing Pass Rates Among Performance Tests In Patients With ACLR. UNC Sports Medicine Institute Conference, Chapel Hill, NC. September 2022.
- 2. **Thompson XD**, Bruce AS, Hopper HM, Hart JM. Knee Extensor Torque-Velocity Relationships Following ACL Reconstruction. Human Movement Science Research Symposium, Chapel Hill, NC. April 2022.
- 3. Prinz NW, **Thompson XD**, Bruce AS, Hart JM. Associations Between Race & Socioeconomic Status and Prevalence of Reinjury Following Anterior Cruciate Ligament Reconstruction. Hunter Student Research Conference. Charlottesville, VA. March 2022.
- 4. Godwin HE, Cravens FK, Bruce AS, **Thompson XD**, Rosenblum DJ, Resch JE, Hart JM. Differences in Postural Stability between Healthy and ACL-Reconstructed Collegiate Athletes. Hunter Student Research Conference. Charlottesville, VA. March 2022.
- Thompson XD, Bruce, AS, Hart, JM. Force Velocity Modulation Differences During Isokinetic and Isometric Extension Between ACL Reconstructed and Healthy Knees. Poster Presentation. Hunter Student Research Conference. March 2021. (Health Poster Session Winner)
- 6. Bruce AS, **Thompson XD**, Hopper HM, Stolzenfeld RL, Moler CB, Wahl AJ, Hart JM. Side-to-Side differences in Squat Symmetry after ACL-Reconstruction. Hunter Student Research Conference. Virtual Conference. March 2021. **(Health Poster Session Winner)**
- 7. **Thompson XD**, Resch JE. Kinesiophobia is Unrelated to Acute Musculoskeletal Injury Incidence Post-Concussion. Curry Research Conference. Accepted, Cancelled COVID-19.

**Other Speaking Engagements** 

1. Hart JM, **Thompson XD**, Bruce AS. ACL RTP Testing and Programming. National Athletic Trainer's Association Annual Meeting and Clinical Symposium, Philadelphia, PA. Learning Lab. June 2022

#### GRANTS

Sponsor: Virginia Athletic Trainers' Association Mentor: Jacob E. Resch, Ph.D. Role: Primary Investigator Title: TRACE- Torque-Velocity Relationships and Corticospinal Excitability following ACLR Status: Funded Amount: \$750 Period: Fall 2023 Objective: This funding provided funding to incentivize healthy controls for my dissertation.

Sponsor: University of Virginia School of Education Mentor: Jacob E. Resch, Ph.D. Role: Primary Investigator Title: TRACE- Torque-Velocity Relationships and Corticospinal Excitability following ACLR Status: Funded Amount: \$1000 Period: Spring 2023 Objective: This funding provided additional equipment costs for supplies to conduct TMS for my dissertation.

Sponsor: Raven Society Mentor: Jacob E. Resch, Ph.D. Role: Primary Investigator Title: Raven Fellowship Status: Funded Amount: \$2500 Period: Spring 2023 Objective: This funding provided funding to incentivize ACLR participants and pay for supplies to conduct TMS and central activation ratio testing for my dissertation.

Sponsor: University of Virginia Office of Graduate and Postdoctoral Affairs Mentor: Jacob E. Resch, Ph.D. Role: Applicant Title: Professional Development Award Status: Funded Amount: \$1000 Period: Spring 2022 Objective: This funding provided the opportunity to train at the University of North Carolina Chapel Hill in motion capture, MRI segmentation, and other post-ACLR testing. Sponsor: Black Biomechanists Association & Bertec Mentor: Jacob E. Resch, Ph.D. Role: Applicant/ Facilitator Title: Bringing the Biomechanics of Sport from the Lab to the World Status: Funded Amount: \$1000 Period: January 2022- April 2022 Objective: This funding supported a National Biomechanics Day event to introduce high school students from diverse backgrounds using commercially available apps and wearable technology.

Sponsor: The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
PI: Robin Queen, Ph.D.
Role: Paid Consultant
Title: Clinically Assessed Risk Factors for a Second ACL Injury Using an Innovative Wearable
Sensor
Status: Funded
Amount: \$1,294,860
Period: July 2021- July 2026
Objective: The goal of the study is to develop a valid and highly accurate prognostic model to predict a second ACL injury. Validity depends on using measures that accurately assess mechanisms known to increase risk for a second ACL injury.
Sponsor: University of Virginia Brain Institute
PI: Jacob E. Resch, Ph.D. and Kiel Neumann, Ph.D.
Role: Sub-Investigator

PI: Jacob E. Resch, Ph.D. and Kiel Neumann, Ph.D. Role: Sub-Investigator Title: Concussion-Induced Inflammation: A Clinical and Mechanistic Study Status: Funded Amount: \$161,210 Period: March 2018 - July 2021 Objective: To examine the presence neuroinflammation of the brain of concussed of

Objective: To examine the presence neuroinflammation of the brain of concussed collegiate athletes using positron emission tomography in collegiate athletes following clearance for unrestricted return to sport.

Sponsor: Biocore LLC PI: Jacob E. Resch, Ph.D. Role: Clinical Research Coordinator Title: Investigation of a Novel Mouthguard Sensor Status: Funded Amount: \$ 129,770 Period: January 2018- January 2021 Objective: To determine the validity of a novel mouthguard accelerometer to detect linear and rotational acceleration in collegiate football athletes. For those athletes who sustained a concussion, biomechanical data were correlated to clinical ground truth measures to validate

the occurrence of a concussive event.

Sponsor: Lockhead Martin Advanced Tech. Lab PI: Laura Barnes, Ph.D. Role: Clinical Research Coordinator Title: REaDI Sense Status: Funded Amount: \$ 2,611,458 Period: January 2018- March 2021 Objective: To investigate the clinical utility of a smartphone system to detect abnormalities in device use following a diagnosed sport concussion. Clinical ground truth data were used to further validate signal(s) detected by the smartphone. **Outreach Athletic Training** A . . . . . . . . . . . 2015 2024

**CLINICAL EXPERIENCE** 

Athletic Trainer	2015-2024
Served as an athletic trainer for assorted youth and high school sports	
Loudoun Sports Therapy Center	
Athletic Trainer	2017-2018
In addition to normal duties of an athletic trainer, purchased and maintained	
inventory of emergency equipment and clinical supplies. Piloted community	
health outreach programs, created patient education blogs and videos and	
assisted in local fundraising efforts	
University of Kentucky	
Graduate Assistant Athletic Trainer	2015-2017
Served as an athletic trainer for UK Track & Field and cross-country teams and	
acted as the interim full-time athletic trainer during NCAA championships and	
US Olympic Trials. Hosted multiple home events including NCAA outdoor east	
regional track meet. Assisted with athletic training services for athletics teams	
across the department.	
Gatorade	2245
Head Team Leader	2016
Functioned as head team leader for Gatorade summer camps and supervisor for	
Gatorade Varsity Cheer Camps	
Maryland-National Capital Park and Planning Commission	2012
Inclusion Specialist	2013
Facilitated equitable camp experiences for children with disabilities	2012-2015
Athletic Training Student	2012-2015
Served as an athletic training student for Women's Basketball, Men's Volleyball,	
Rowing, Women's Lacrosse, Women's Cross Country and Track & Field, local	
high schools and Ohio Dominican University	

# TEACHING EXPERIENCE

Institution	Course	Role	Frequency	Years	Students
Louisiana State University	Biomechanical Basis of Kinesiology (KINE 3514-4)	Instructor	Fall, Spring	2024	45
University of Virginia	Emergency Medical Care (KINE 3600)	Instructor of Record	Spring, Fall	2021-2024	50-60
	Foundational Athletic Training Skills (KINE 5700)	Instructor	Summer	2021	24
	Emergency Medical Care (KINE 3600)	Graduate Teaching Assistant	Fall	2020	60
	Emergency Medical Care (KINE 3600)	Guest Instructor	Fall, Spring	2018-2019	50-60
University of North Carolina Chapel Hill	Fundamentals of Sports Medicine (EXSS 265)	Guest Lecturer	Spring	2021	40
Worthington Kilbourne High School	Sports Medicine	Guest Instructor	Spring	2014	20
	TIONS AND ACTIV	ITIES			
Manuscript Revie British Associa Clinical Biome	n of Athletic Training ewer ation of Sport & Exer echanics	cise Medicine Journ	al		021-presen 020-presen
Journal of Ath Journal of Spo	ort Rehabilitation in Physical Education				
NIATA Ethaia Div	ersity Advisory Comr	nitton Dogistarad M	a.a.k.a.a	2	018-presen

# **University Level**

2024-pres 2022-2024
2022-2024
2022 2024
2021-2024
2021-2024
2022-2024
2021-2022
2022-present
2021-present
2021
2020-present
2020
2020
2013-2014
2012 2015
2012-2015
2022-2024
2021-pres
Summer 2020

## MENTORING

Student	Institution	Graduate Project Title	Completion
Payton Lear	University	Does oral contraceptive use at the time	Spring 2024
	of Virginia	of surgery affect knee function and	
		lower extremity strength following	
		anterior cruciate ligament	
		reconstruction in female patients?	
Andrew Martin	University	Sex Disparities in Reinjury and Return	Spring 2024
	of Virginia	to Sport Post-ACL Reconstruction	

Nick Diebold	University of Virginia	Among Elite Soccer Athletes: A Critically Appraised Topic Investigating the Use of Eccentric Performance Variables in the Countermovement Jump as Indicators	Spring 2023
Joseph Na	University of Virginia	of Change of Direction Performance The Role of Cryotherapy in Reduction of Proliferation of the Secondary Damage	Spring 2023
Lindsay Riley	University of Virginia	Response: A Critical Appraisal Individualized Patterns of Functional Performance in Patients With ACLR: A Case Series	Spring 2022
Mia Troiano	University of Virginia	The Application of Sample Entropy to Investigate Recovery of Postural Deficits following Sport Concussion in Athletes	Spring 2021

## Undergraduate Students

endergradadee beddeints		
Student	Institution	Research Interests
Farise Cravens	University of Virginia	ACL and balance performance
Gab DelBiondo	University of Virginia	Clinician practices following ACLR
Ashley Thompson	University of Virginia	Outcomes following ACLR
Haley Godwin	University of Virginia	Sensory reorganization following ACLR
Haleigh Hopper	University of Virginia	Patient-reported outcomes following ACLR
Madison Brna	University of Virginia	Relationship between concussion and
		musculoskeletal injury
Ellie Stephens	University of Virginia	Patient outcomes following concussion
Jasmine Monge	University of Virginia	Role of modifiers on concussion recovery
McKayla Guerrero	University of Virginia	Patient outcomes following concussion
Holly Carrington	University of Virginia	Role of hormonal contraceptives on
		concussion recovery
Andrew Gerrin	University of Virginia	Sample entropy in postural control
		measurements
Kyle Manetz	University of Virginia	Concussion history and kinesiophobia

#### AWARDS

Edgar F Shannon Z Society Award	2024
<ul> <li>Gansneder Award for Outstanding Quantitative Dissertation</li> </ul>	2024
Raven Award	2024
Doctoral Diversity Dinner Honoree	2024
American Kinesiology Association Local Award Winner	2024
All-University Graduate Teaching Award	2024
Gatorade Sports Science Institute Diversity in Sports Science Award	2023-2024
One of Four Students Selected in the Initial Cohort	

International Society of Biomechanics in Sports2024-presentAmerican Society of Biomechanics2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	Ford Foundation Fellowship Honorable Mention	2023
Nathan E. Johnson Memorial Scholarship2023Brenda Holliday Loyd Award2022UVA Office of Graduate and Postdoctoral Affairs Professional2022Development Award2022NATA Foundation Scholarship2022VATA Free Communications Doctoral Student Award2022NATA Research Foundation Post-Professional Terminal Degree2021Student Winner2021UVA School of Education and Human Development Dean's Fellowship2020-presentPhillip Morris Minority Scholarship2016-2017The Ohio State University School of Health & Rehabilitation Sciences2015Award of Merit2014The Ohio State University Bucking The Trend Scholarship2016MARC FASEB Travel Award2014The Ohio State University Billy A Hill Scholarship for Service in Athletic Training2012The Ohio State University Slater & Johnson Memorial Scholar2012Ottertificate of Achievement2012The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-presentAct Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society of Biomechanics2022-presentAmerican Society of Biomechanics2022-presentMid-Atlantic Athletic Trainer's Association2017-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentVirgina Board of Medicine License# 01260028132017-present <td>ACSM Biomechanics Special Interest Group Student Travel Award</td> <td>2023</td>	ACSM Biomechanics Special Interest Group Student Travel Award	2023
<ul> <li>Brenda Holliday Loyd Award</li> <li>2022</li> <li>UVA Office of Graduate and Postdoctoral Affairs Professional</li> <li>2022</li> <li>Development Award</li> <li>NATA Foundation Scholarship</li> <li>2022</li> <li>VATA Free Communications Doctoral Student Award</li> <li>2022</li> <li>NATA Research Foundation Post-Professional Terminal Degree</li> <li>Student Winner</li> <li>Hunter Student Research Conference Poster Award</li> <li>2021</li> <li>UVA School of Education and Human Development Dean's Fellowship</li> <li>Phillip Morris Minority Scholarship</li> <li>2020-present</li> <li>Phillip Morris Minority Scholarship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences</li> <li>Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>2013</li> <li>Training</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic</li> <li>Training</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012-2015</li> <li>Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012-2015</li> <li>MEMBERSHIPS/CERTIFICATIONS/LICENSES</li> <li>International Society of Biomechanics in Sports</li> <li>2023-present</li> <li>AGELS Society</li> <li>2023-present</li> <li>Raven Society of Biomechanics- UVA Student Chapter</li> <li>2022-present</li> <li>Black Biomechanists of America</li> <li>UVA Ph.D. Plus Program</li> <li>2022-present</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>2017-present</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Virginia Board of Medici</li></ul>	<ul> <li>John T. Casteen III Diversity, Equity and Inclusion Award Nominee</li> </ul>	2023
<ul> <li>UVA Office of Graduate and Postdoctoral Affairs Professional Development Award</li> <li>NATA Foundation Scholarship</li> <li>VATA Free Communications Doctoral Student Award</li> <li>NATA Research Foundation Post-Professional Terminal Degree</li> <li>Student Winner</li> <li>Hunter Student Research Conference Poster Award</li> <li>UVA School of Education and Human Development Dean's Fellowship</li> <li>UNA School of Education and Human Development Dean's Fellowship</li> <li>University of Kentucky Lyman T Johnson Fellowship</li> <li>University and Marci</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>MARC FASEB Travel Award</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>The Ohio State University Todd A. Bell National Resource Center</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>MAREFASES</li> <li>International Society of Biomechanics in Sports</li> <li>ACL Reconstruction Rehabilitation Outcomes Workgroup</li> <li>ANGELS Society</li> <li>ANGELS Society</li> <li>ANGELS Society</li> <li>American Society of Biomechanics - UVA Student Chapter</li> <li>American Society of Biomechanics - UVA Student</li></ul>	Nathan E. Johnson Memorial Scholarship	2023
Development AwardNATA Foundation Scholarship2022VATA Free Communications Doctoral Student Award2022NATA Research Foundation Post-Professional Terminal Degree2021Student Winner2021UVA School of Education and Human Development Dean's Fellowship2020-presentPhillip Morris Minority Scholarship2016-2017University of Kentucky Lyman T Johnson Fellowship2016-2017The Ohio State University School of Health & Rehabilitation Sciences Award of Merit2011The Ohio State University Bucking The Trend Scholarship2015MARC FASEB Travel Award2011The Ohio State University Bulky A Hill Scholarship for Service in Athletic Training2012The Ohio State University Sold A. Bell National Resource Center Certificate of Achievement2012The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES 	Brenda Holliday Loyd Award	2022
<ul> <li>VATA Free Communications Doctoral Student Award</li> <li>2022</li> <li>NATA Research Foundation Post-Professional Terminal Degree</li> <li>2021</li> <li>Student Winner</li> <li>Hunter Student Research Conference Poster Award</li> <li>2020-present</li> <li>UVA School of Education and Human Development Dean's Fellowship</li> <li>2020-present</li> <li>Phillip Morris Minority Scholarship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences</li> <li>Award of Merit</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences</li> <li>Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>2015</li> <li>MARC FASEB Travel Award</li> <li>2014</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic</li> <li>Training</li> <li>The Ohio State University Todd A. Bell National Resource Center</li> <li>Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> </ul> MEMBERSHIPS/CERTIFICATIONS/LICENSES International Society of Biomechanics in Sports <ul> <li>2023-present</li> <li>ANGELS Society</li> <li>2023-present</li> <li>ANGELS Society</li> <li>2023-present</li> <li>AMGELS Society of Biomechanics- UVA Student Chapter</li> <li>2023-present</li> <li>Marcian Society of Biomechanics- UVA Student Chapter</li> <li>2021-present</li> <li>Reversion Sinstructor</li> <li>2021-present</li> <li>Merican Society of Biomechanics- UVA Student Chapter</li> <li>2021-present</li> <li>Merican Society of Merica</li> <li>2022-present</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>2017-present</li> <li>Virginia Anthetic Trainer's Society</li> <li>2017-present</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Virgin</li></ul>		2022
<ul> <li>NATA Research Foundation Post-Professional Terminal Degree</li> <li>Student Winner</li> <li>Hunter Student Research Conference Poster Award</li> <li>2021</li> <li>UVA School of Education and Human Development Dean's Fellowship</li> <li>2020-present</li> <li>Phillip Morris Minority Scholarship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences</li> <li>Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>2015</li> <li>MARC FASEB Travel Award</li> <li>2014</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic</li> <li>The Ohio State University Todd A. Bell National Resource Center</li> <li>Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> </ul> MEMBERSHIPS/CERTIFICATIONS/LICENSES International Society of Biomechanics in Sports ANGELS Society 2023-present ANGELS Society Black Biomechanics of America 2022-present Rev Society of Biomechanics- UVA Student Chapter 2023-present Red Cross Instructor VOX Ph.D. Plus Program Acciety 2023-present American Society of Biomechanics- UVA Student Chapter 2021-present Admerican Society of Biomechanics- UVA Student Chapter 2021-present Red Cross Instructor Virginia Board of Medicine License# 0126002813 2017-present Virginia Board of Medicine License# 0126002813 2017-present Society 2016-2017 2017-present Society 2015-2015 2017-present 2016-2017 2017-present 201	NATA Foundation Scholarship	2022
Student Winner•Hunter Student Research Conference Poster Award2021•UVA School of Education and Human Development Dean's Fellowship2020-present•Phillip Morris Minority Scholarship2016-2017•The Ohio State University School of Health & Rehabilitation Sciences2015•Award of Merit2015•The Ohio State University Bucking The Trend Scholarship2015•MARC FASEB Travel Award2014•The Ohio State University Bully A Hill Scholarship for Service in Athletic Training2012•The Ohio State University Todd A. Bell National Resource Center Certificate of Achievement2012•The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-present AMGELS Society of Biomechanics in Sports2023-present 2023-present ANGELS SocietyBlack Biomechanists of America2022-present 2022-present American Society of Biomechanics- UVA Student Chapter Red Cross Instructor2021-present 2017-present 2017-present Virginia Athletic Trainer's Association2017-present 2017-present 2017-present 2017-present 2017-present 2017-present 2017-present 2017-present 2017-present 2017-present2017-present 2017-present	<ul> <li>VATA Free Communications Doctoral Student Award</li> </ul>	2022
<ul> <li>UVA School of Education and Human Development Dean's Fellowship</li> <li>Phillip Morris Minority Scholarship</li> <li>University of Kentucky Lyman T Johnson Fellowship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>MARC FASEB Travel Award</li> <li>2013</li> <li>MARC FASEB Travel Award</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic Training</li> <li>The Ohio State University Todd A. Bell National Resource Center Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> <li>MEMBERSHIPS/CERTIFICATIONS/LICENSES</li> <li>International Society of Biomechanics in Sports</li> <li>ACL Reconstruction Rehabilitation Outcomes Workgroup</li> <li>ANGELS Society</li> <li>Raven Society</li> <li>Black Biomechanists of America</li> <li>UVA Ph.D. Plus Program</li> <li>American Society of Biomechanics- UVA Student Chapter</li> <li>Co21-present</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>Yirginia Board of Medicine License# 0126002813</li> <li>Contrification BOC288800</li> <li>2015-present</li> </ul>	-	2021
<ul> <li>Phillip Morris Minority Scholarship</li> <li>2020</li> <li>University of Kentucky Lyman T Johnson Fellowship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>2015</li> <li>MARC FASEB Travel Award</li> <li>2014</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic Training</li> <li>The Ohio State University Todd A. Bell National Resource Center</li> <li>2012-2015 Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> <li>MEMBERSHIPS/CERTIFICATIONS/LICENSES</li> <li>International Society of Biomechanics in Sports</li> <li>2024-present</li> <li>ACL Reconstruction Rehabilitation Outcomes Workgroup</li> <li>2023-present</li> <li>Raven Society</li> <li>2023-present</li> <li>Black Biomechanists of America</li> <li>2022-present</li> <li>Merican Society of Biomechanics- UVA Student Chapter</li> <li>2021-present</li> <li>Merican Society of Biomechanics- UVA Student Chapter</li> <li>2021-present</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>2017-present</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Graston Technique Level I Certification</li> <li>2016</li> <li>Board of Certification BOC288800</li> </ul>	Hunter Student Research Conference Poster Award	2021
<ul> <li>University of Kentucky Lyman T Johnson Fellowship</li> <li>2016-2017</li> <li>The Ohio State University School of Health &amp; Rehabilitation Sciences Award of Merit</li> <li>The Ohio State University Bucking The Trend Scholarship</li> <li>2015</li> <li>MARC FASEB Travel Award</li> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic Training</li> <li>The Ohio State University Todd A. Bell National Resource Center</li> <li>Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> <li>MEMBERSHIPS/CERTIFICATIONS/LICENSES</li> <li>International Society of Biomechanics in Sports</li> <li>ACL Reconstruction Rehabilitation Outcomes Workgroup</li> <li>2023-present</li> <li>ANGELS Society</li> <li>Black Biomechanics of America</li> <li>2022-present</li> <li>Marerican Society of Biomechanics- UVA Student Chapter</li> <li>2021-present</li> <li>Red Cross Instructor</li> <li>2021-present</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>2017-present</li> <li>Graston Technique Level I Certification</li> <li>2016</li> <li>Board of Certification BOC288800</li> </ul>		•
Award of Merit2015The Ohio State University Bucking The Trend Scholarship2015MARC FASEB Travel Award2014The Ohio State University Billy A Hill Scholarship for Service in Athletic Training2013The Ohio State University Todd A. Bell National Resource Center Certificate of Achievement2012-2015The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-presentAmerican Society of Biomechanics in Sports2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present		2016-2017
MARC FASEB Travel Award2014The Ohio State University Billy A Hill Scholarship for Service in Athletic Training2013The Ohio State University Todd A. Bell National Resource Center Certificate of Achievement2012-2015The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-presentAmerican Society of Biomechanics in Sports2024-presentANGELS Society Raven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentQ021-present2021-presentWid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	•	2015
<ul> <li>The Ohio State University Billy A Hill Scholarship for Service in Athletic Training</li> <li>The Ohio State University Todd A. Bell National Resource Center Certificate of Achievement</li> <li>The Ohio State University Slater &amp; Johnson Memorial Scholar</li> <li>2012</li> <li>MEMBERSHIPS/CERTIFICATIONS/LICENSES</li> <li>International Society of Biomechanics in Sports</li> <li>ACL Reconstruction Rehabilitation Outcomes Workgroup</li> <li>ANGELS Society</li> <li>Black Biomechanists of America</li> <li>UVA Ph.D. Plus Program</li> <li>American Society of Biomechanics- UVA Student Chapter</li> <li>American Society of Biomechanics- UVA Student Chapter</li> <li>Cots Instructor</li> <li>Mid-Atlantic Athletic Trainer's Association</li> <li>Virginia Board of Medicine License# 0126002813</li> <li>Board of Certification BOC288800</li> <li>2015-present</li> </ul>	<ul> <li>The Ohio State University Bucking The Trend Scholarship</li> </ul>	2015
TrainingThe Ohio State University Todd A. Bell National Resource Center Certificate of Achievement2012-2015• The Ohio State University Slater & Johnson Memorial Scholar2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-presentAmerican Society of Biomechanics in Sports2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	MARC FASEB Travel Award	2014
Certificate of Achievement2012MEMBERSHIPS/CERTIFICATIONS/LICENSES2024-presentAmericanal Society of Biomechanics in Sports2024-presentAmerican Society of Biomechanics2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present		2013
MEMBERSHIPS/CERTIFICATIONS/LICENSESInternational Society of Biomechanics in Sports2024-presentAmerican Society of Biomechanics2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present		2012-2015
International Society of Biomechanics in Sports2024-presentAmerican Society of Biomechanics2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	The Ohio State University Slater & Johnson Memorial Scholar	2012
American Society of Biomechanics2024-presentACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	MEMBERSHIPS/CERTIFICATIONS/LICENSES	
ACL Reconstruction Rehabilitation Outcomes Workgroup2023-presentANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	International Society of Biomechanics in Sports	2024-present
ANGELS Society2023-presentRaven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	American Society of Biomechanics	2024-present
Raven Society2023-presentBlack Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	ACL Reconstruction Rehabilitation Outcomes Workgroup	2023-present
Black Biomechanists of America2022-presentUVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	ANGELS Society	2023-present
UVA Ph.D. Plus Program2022-presentAmerican Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	Raven Society	2023-present
American Society of Biomechanics- UVA Student Chapter2021-presentRed Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	Black Biomechanists of America	2022-present
Red Cross Instructor2021-presentMid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	UVA Ph.D. Plus Program	2022-present
Mid-Atlantic Athletic Trainer's Association2017-presentVirginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	American Society of Biomechanics- UVA Student Chapter	2021-present
Virginia Athletic Trainers' Society2017-presentVirginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	Red Cross Instructor	2021-present
Virginia Board of Medicine License# 01260028132017-presentGraston Technique Level I Certification2016Board of Certification BOC2888002015-present	Mid-Atlantic Athletic Trainer's Association	2017-present
Graston Technique Level I Certification2016Board of Certification BOC2888002015-present	Virginia Athletic Trainers' Society	2017-present
Board of Certification BOC288800 2015-present	Virginia Board of Medicine License# 0126002813	2017-present
Board of Certification BOC288800 2015-present	Graston Technique Level I Certification	-
National Provider Identifier 12550/226/	Board of Certification BOC288800	2015-present
	National Provider Identifier 1255942264	2020-present

National Athletic Trainer's Association CPR/ AED Certification Current Red Cross BLS 2013-present 2012-present