

CAROLINE M. LISEE, Ph.D., ATC**CONTACT INFORMATION**

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EDUCATION AND TRAINING

July 2020 – Present	University of North Carolina, Chapel Hill, NC Post-Doctoral Research Associate MOTION Science Institute Department of Exercise and Sport Science Mentor: Brian Pietrosimone, Ph.D., ATC
August 2016 – May 2020	Michigan State University, East Lansing, MI Doctor of Philosophy in Kinesiology, Concentration: Athletic Training Department of Kinesiology - College of Education Dissertation: <i>Femoral Articular Cartilage Response to Cumulative Loading in Individuals during Early Phases of Recovery Following ACLR</i> Advisor: Christopher Kuenze, Ph.D., ATC
May 2015 – June 2016	University of Virginia, Charlottesville, VA Master of Education in Athletic Training Department of Kinesiology - Curry School of Education Thesis: <i>Lower Extremity Strength, Functional Performance and Limb Symmetry Among Healthy Subjects</i> Advisor: Joseph Hart, Ph.D., ATC
August 2009 – May 2013	Ithaca College, Ithaca, NY Bachelor of Science in Athletic Training with Minor in Public Health Department of Exercise and Sport Science School of Health Sciences and Human Performance

WORK EXPERIENCE

August 2023 – Present	University of Georgia Assistant Professor Department of Kinesiology Mary Frances Early College of Education
July 2020 - Present	University of North Carolina, Chapel Hill, NC Post-Doctoral Research Associate Department of Exercise and Sport Science College of Arts and Sciences

August 2016 - May 2020	Michigan State University, East Lansing, MI Graduate Assistant Department of Kinesiology College of Education
August 2015 – May 2016	University of Virginia, Charlottesville, VA Graduate Assistant – Softball Athletic Trainer UVA Sports Medicine
August 2013 – May 2015	Pivot Physical Therapy, Frederick, MD Head Athletic Trainer Linganore High School

HONOR PROGRAMS AND AWARDS

NIH Clinical and Translational Research Course for Ph.D. Students – Program offered by the NIH Clinical Center and NIH Campus. The purpose of the program is to demonstrate the role of PhD scientists in clinical and translational research, provide an overview and examples of how basic science and clinical observations lead to translational research, and increase awareness and access to Ph.D. role models, research resources, and potential career opportunities at the NIH. Accepted by NIH Clinical Center. August 2018.

Kinesiology Endowed Fellowship – awarded for exemplary motivation and capacity to achieve educational and professional goals and initiative to go beyond ordinary expectations in their professional behavior and development. Awarded by Michigan State University – Department of Kinesiology. April 2018.

Mark Alderman Award – awarded for displaying service, compassion and kindness to others – Awarded by Ithaca College – Ithaca College Athletic Training Education Program. May 2013.

PUBLISHED MANUSCRIPTS

Summary: Total = 35; 44% first or senior author; 554 citations; and h-index of 13

1. **Lisee C**, Evans-Pickett A, Davis-Wilson H, Longobardi L, Lalush D, Franz JR, Munsch AE, Pietrosimone B. Delayed changes in biochemical biomarkers in response to loading are associated with lateral femoral cartilage T1ρ Post-ACLR. *Eur J Appl Phys*. 2022. ACCEPTED.
2. Bjornsen E, Davis-Wilson H, Evans-Pickett A, **Lisee C**, Munsch AE, Nissman D, Blackburn T, Franz JR, Pietrosimone. Knee abduction moment and medial femoral articular cartilage cross-sectional area responder to loading in individuals with anterior cruciate ligament reconstruction. *Clin Biomech*. 2022. ACCEPTED.
3. Armitano-Lago C, Davis-Wilson HC, Evans-Pickett A, **Lisee C**, Kershner CE, Blackburn T, Franz J, Kiefer K, Nissman D, Pietrosimone B. Less gait variability linked to worse cartilage composition post-ACL reconstruction. *Med Sci Exerc Sport*. 2023. Online Ahead of Print. PMID: [36940200](#).
4. **Lisee C**, Bjornsen E, Berkoff D, Matos K, Pietrosimone B. Changes in biomechanics, strength, physical function, and daily steps after extended-release corticosteroid injections in knee osteoarthritis. *Clin Rheumatol*. 2023. Online Ahead of Print. PMID: [36929315](#).
5. O'Connell D, Golightly Y, **Lisee C**, Pietrosimone B. Interlimb Differences in T1ρ MRI Relaxation Times Linked with Symptomatic Knee Osteoarthritis Following Anterior Cruciate Ligament Reconstruction. *Knee*. 2023;41:353-359. PMID: [36842267](#).

6. Kuenze C, Weaver A, Grindstaff TL, Ulman S, Norte GE, Roman DP, Giampetruzzi N, **Lisee C**, Birchmeier T, Triplett A, Farmer B, Hopper H, Sherman DA, Ness BM, Collins K, Walaszek M, Baez S, Harkey MS, Tulchin-Francis K, Ellis H, Wilson PL, Chang E, Wilcox L, Schorfhaar A, Shingles M, Hart JM. Age-, Sex-, and Graft-specific Reference Values From 783 Adolescent Patients At 5-7 months After ACL Reconstruction: IKDC, PEDI-IKDC, KOOS, ACL-RSI, Single-leg Hop, and Thigh Strength. *J Orthop Sports Phys Ther*. 2023; Online ahead of print. PMID: [36688716](#).
7. Kuenze CM, **Lisee C**, Triplett A, Collins K, Walaszek M, Lewis J, Farner N, Harkey M, Baez S. Validation of a Survey to Characterize Barriers to Physical Activity After Anterior Cruciate Ligament Reconstruction. *J Athl Train*. 2022. Online ahead of print. PMID: [36521177](#)
8. Bjornsen E, **Lisee C**, Schwartz T, Creighton RA, Kamath G, Spang J, Blackburn T, Pietrosimone B. Improvement trajectories in patient reported outcomes differ between males and females following anterior cruciate ligament reconstruction. *J Athl Train*. 2022. Epub ahead of print. PMID: [35788341](#).
9. Evans-Pickett A, **Lisee C**, Hu D, Horton WZ, Lalush D, Nissman D, Blackburn JT, Spang, JT, Pietrosimone B. Worse tibiofemoral cartilage composition is associated with insufficient, not excessive, gait kinetics following anterior cruciate ligament reconstruction. *Med Sci Exerc Sport*. 2022;54(10):1771-1781. PMID: [35700436](#)
10. **Lisee C**, Bjornsen E, Horton WZ, Davis-Wilson HC, Blackburn JT, Fisher MB, Pietrosimone B. Differences in gait biomechanics between adolescents and young adults with anterior cruciate ligament reconstruction. *J Athl Train*. 2022;57(9-10):921-928. PMID: [36638344](#)
11. Pfeiffer KA, **Lisee C**, Westgate BS, Kalfsbeek C, Kuenze C, Bell D, Cadmus-Bertram L, Montoye AHK. Using accelerometers to detect activity type in a sport setting: Challenges with using multiple types of conventional machine learning approaches. *Meas Phys Educ Exerc Sci*. 2022. DOI: [10.1080/1091367X.2022.2069467](#)
12. Collins K, Fajardo R, Harkey M, Knake J, **Lisee C**, Wilcox K, Kuenze C. Knee symptoms do not affect walking biomechanics among women 6-months after anterior cruciate ligament reconstruction. *J Ortho Res*. 2022;40(10):2240-2247. PMID: [35001419](#)
13. Kuenze C, Farner N, Lewis J, **Lisee C**, Schorfhaar A, Erickson K. Adolescent patient, parent, and clinicians perceptions of rehabilitation following anterior cruciate ligament reconstruction: A qualitative study. *J Athl Train*. 2022;57(9-10):929-936. PMID: [35142825](#)
14. **Lisee C**, Davis-Wilson H, Evans-Pickett A, Horton WZ, Blackburn T, Franz JR, Thoma L, Spang JT, Pietrosimone B. Linking gait biomechanics and daily steps post ACL-reconstruction. *Med Sci Exerc Sport*. 2022;54(5):709-716. PMID: [35072659](#)
15. Bjornsen E, Schwartz TA, **Lisee C**, Blackburn T, Lalush D, Nissman D, Spang, J Pietrosimone B. Loading during midstance of gait is associated with magnetic resonance imaging of cartilage composition following anterior cruciate ligament reconstruction. *Cartilage*. 2022;13(1): 19476035211072220. PMID: [35098719](#)
16. Kuenze C, Collins K, Triplett A, Bell D, Norte G, Baez S, Harkey M, **Lisee C**. Adolescents are less physically active than adults 6 to 12 months after anterior cruciate ligament reconstruction. *Orthop J Sports Med*. 2022;10(2):23259671221075658. PMID: [35224118](#)
17. **Lisee C**, Spang J, Loeser R, Longobardi L, Lalush D, Nissman D, Schwartz T, Hu D, Pietrosimone B. Tibiofemoral articular cartilage composition differs based on serum biochemical

- profiles following anterior cruciate ligament reconstruction. *Osteoarthritis Cartilage*. 2021;16:S1063-4584(21)00905-5. PMID: [34536530](#)
18. **Lisee C**, Harkey Z, Walker Z, Pfeiffer K, Covassin T, Kovan J, Currie K, Kuenze C. Longitudinal Changes in Ultrasound-Assessed Femoral Cartilage Thickness in Individuals From 4 to 6 Months Following Anterior Cruciate Ligament Reconstruction. *Cartilage*. 2021;12:19476035211038749. PMID: [34384276](#)
 19. Kuenze C, Collins K, Pfeiffer K, **Lisee C**. Assessing physical activity after ACL injury: Moving beyond return to sport. *Sports Health*. 2022;14(2):197-204. PMID: [34184945](#)
 20. Kuenze C, Bell DR, Grindstaff T, **Lisee C**, Birchmeier T, Triplett A, Kane K, Pietrosimone B. A comparison of psychological readiness and patient-reported function between sexes after ACL Reconstruction. *J Athl Train*. 2020; 56(2):164-169. PMID: [PMC7901577](#)
 21. **Lisee C**, McGrath M, Kuenze C, Zhang M, Salzer M, Driban J.B., Harkey M.S. Reliability of a novel semiautomated ultrasound segmentation technique for assessing average regional femoral articular cartilage thickness. *J Sports Rehab*. 2020; 5(29):1-5. PMID: [32473587](#)
 22. **Lisee C**, DiSanti J, Ling J, Chan M, Erickson K, Shingles M, Kuenze C. Gender differences in psychological responses to recovery after anterior cruciate ligament reconstruction before return to sport. *J Athl Train*. 2020;55(10):1098-1105. PMID: [32966569](#)
 23. **Lisee C**, Montoye A, Lewallen F, Hernandez M, Bell D, Kuenze C. Assessment of free-living cadence accumulation using Actigraph accelerometers among individuals with and without ACL reconstruction. *J Athl Train*. 2020; 50(9):994-1000. PMID: [32818959](#)
 24. **Lisee C**, Birchmeier T, Yan A, Kuenze C. Associations between isometric quadriceps strength characteristics, knee flexion angles, and knee extension moments during single leg step down and landing tasks after anterior cruciate ligament reconstruction. *Clin Biomech*. 2019; 70:231-236. PMID: [31669921](#)
 25. Birchmeier, T, **Lisee C**, Kane K, Brazier B, Triplett A, Kuenze C. Quadriceps muscle size following ACL injury and reconstruction: A systematic review. *Journal of Orthop Res*. 2019;38(3):598-608. PMID: [31608490](#)
 26. **Lisee C**, Birchmeier T, Yan A, Geers B, O'Hagan K, Davis C, Kuenze C. The relationship between vertical ground reaction force, loading rate and sound characteristics during landing. *J Sports Rehab*. 2019; 29:1-24. PMID: [31034335](#)
 27. **Lisee C**, Lepley AS, Birchmeier T, O'Hagan K, Kuenze C. Quadriceps strength and volitional activation after anterior cruciate ligament reconstruction (ACLR): A systematic-review and meta-analysis. *Sports Health*. 2019. 11(2):163-179. PMID: [30638441](#)
 28. Birchmeier T, **Lisee C**, Geers B, Kuenze C. Reactive strength index and knee extension strength characteristics are predictive of single leg hop performance after ACL reconstruction. *J Strength Cond Res*. 2019; 33(5):1203-1207. PMID: [30844991](#)
 29. Kuenze C, **Lisee C**, Birchmeier T, Triplett A, Wilcox CL, Schorfhaar A, Shingles M. Sex differences in quadriceps rate of torque development within 1 year of ACL reconstruction. *Phys Ther Sport*. 2019; 38 (36-43). PMID: [31042614](#)
 30. Kuenze C, **Lisee C**, Pfeiffer K, Cadmus-Bertram L, Post EG, Biese K, Bell DR. Sex differences in physical activity engagement after ACL reconstruction. *Phys Ther Sport*. 2019; 35:12-17. PMID: [30396146](#)

31. Kuenze C, Pietrosimone B, **Lisee C**, Rutherford M, Birchmeier T, Lepley A, Hart J. Demographic and surgical factors affect quadriceps strength after ACLR. *Knee Surg Sports Traumatol Arthrosc.* 2019; 27(3):921-930. PMID: [30327821](#)
32. **Lisee C**, Slater L, Hertel J, Hart J. Effect of sex and level of activity on lower extremity strength, functional performance and limb symmetry. *J Sports Rehab.* 2018; 24:1-26. PMID: [29364048](#)
33. Kuenze C, Trigsted S, **Lisee CL**, Post E, Bell DR. An evaluation of sex differences on the landing error scoring system for individuals with ACL reconstruction. *J Athl Train.* 2018;53(9):837-843. PMID: [30273009](#)
34. DiSanti J, **Lisee C**, Erickson K, Bell D, Shingles M, Kuenze C. Perceptions of rehabilitation and return to sport among high school athletes with ACL reconstruction: A qualitative research study. *J Ortho & Sports Phys Ther.* 2018;22:1-31. PMID: [29932875](#)
35. Kuenze CM, Cadmus-Bertram L, Pfeiffer KA, Trigsted S, Cook D, **Lisee C**, Bell DR. Relationship between physical activity and clinical outcomes after ACL reconstruction. *J Sport Rehab.* 2017;15: 1-26. PMID: [29140161](#)

MANUSCRIPTS IN REVIEW

1. **Lisee C**, Obudzinski S, Pietrosimone B, Creighton RA, Kamath G, Longobardi L, Loeser R, Spang J. Serum Biochemical Biomarker Profiles Linked to Poor Knee Joint Health Are Not Associated with OA-Related Symptoms at 12 Months Post-ACLR. Submitted to *Am J Sports Med.* June 2023.
2. **Lisee C**, Baez S, Bjornsen E, Thoma L, Blackburn T, Spang JT, Creighton RA, Kamath G, Hu J, Pietrosimone B. Preoperative kinesiophobia, not pain, is associated with aberrant gait biomechanics following anterior cruciate ligament injury. Submitted to *Am J Sports Med.* May 2023.
3. Harkey M, Michel N, Grozier C, Slade J, Collins K, Pietrosimone B, Lalush D, **Lisee C**, Hacihaliloglu I, Fajardo R. Femoral cartilage ultrasound echo-intensity is a valid measure of cartilage composition. *J Orthop Res.* Submitted March 2023.
4. Buck A, **Lisee C**, Bjornsen E, Büttner C, Birchmeier T, Nilius A, Favoreto N, Spang J, Blackburn T, Pietrosimone B. Normalizing Walking Speed Does Not Normalize Gait Biomechanics Post-Anterior Cruciate Ligament Reconstruction. *Med Sci Exerc Sport.* Submitted March 2023.
5. Buck AN, **Lisee CM**, Bjornsen ES, Schwartz TA, Spang JT, Franz JR, Blackburn JT, Pietrosimone BG. Biomechanical Thresholds for Identifying Posttraumatic Osteoarthritis-Related Symptoms Six Months Following Anterior Cruciate Ligament Reconstruction. *J Orthop Res.* Submitted October 2022.
6. Collins K, Harkey M, Baez S, **Lisee C**, Birchmeier T, Triplett A, Joseph S, McGuire T, Kuenze C. Adolescents and adults exhibit similar peak gait characteristics 6 months after anterior cruciate ligament reconstruction. *J Orthop Res.* Submitted April 2022.

MANUSCRIPTS IN PRODUCTION

1. **Lisee C**, Evans-Pickett A, Pimentel R, Queen R, Franz J, Pietrosimone B. Validating Clinically Feasible Tools to Implement Real-Time Gait Biofeedback for Normalizing Walking Patterns Post-ACLR
2. **Lisee C**, Kuenze C, Lalush D, Dorsey J, Pfeiffer M, Pietrosimone B. Increasing Daily Steps to Improve Cartilage Composition Post-ACLR: A Pilot Study
3. **Lisee C**, Collins K, Harkey M, Pfeiffer K, Covassin T, Kovan J, Currie KD, Kuenze C. Cumulative loading is associated with thicker femoral cartilage after anterior cruciate ligament reconstruction.

INVITED AND CONFERENCE PRESENTATIONS

1. **Lisee C.** Promoting Optimal Knee Joint Health Following Injury: Taking the Next “Step” Forward To be presented at 2023 Mid-Atlantic Athletic Trainers’ Association Symposium. Virginia Beach, VA, May 2023.
2. Birchmeier T, **Lisee C.** Childsplay: Pediatric Considerations for Return to Sport Post-ACLR. To be presented at 74th Clinical Symposia & Expo. Indianapolis, IN. June 2023.
3. Pietrosimone B, **Lisee C.** Every Step You Take, Every Move You Make. Arthritis Foundation’s Pathways Conference 2022. Kansas City, Missouri, June 2022.
4. **Lisee C,** Pietrosimone B. Goldilocks and the loading barriers of good knee health. 73rd Clinical Symposia & Expo. Philadelphia, PA. June 2022.
5. **Lisee C.** Assessing Physical Activity and Loading after ACL Injury: Moving Beyond Return to Sport. AT Still Athletic Training Monthly Seminars. Kirksville, Missouri. February 2021.
6. Kuenze C, **Lisee C.** Psychosocial and environmental barriers to functional recovery after knee injury. Great Lakes Athletic Trainers Association Conference. Wheeling, IL. March 2019.
7. Shingles M, **Lisee C.** ACL Injury Prevention. MHSSA Women in Sports Leadership Conference. Lansing, MI. January 2018.

CONFERENCE ABSTRACTS

Summary: Total = 46; 72% National; 28% International

1. Walaszek MC, Collins K, Lineman B, **Lisee C,** Birchmeier T, Kuenze C. Adolescent and adult jump-landing vertical ground reaction force 6-10 months after anterior cruciate ligament reconstruction. Submitted for consideration to APTA Combined Sections Meeting 2024.
2. Armitano-Lago C, Bjornsen E, **Lisee C,** Thoma L, Blackburn T, Spang JT, Kiefer AW, Pietrosimone B. A longitudinal assessment of lower extremity coordination patterns during gait within 6 months following anterior cruciate ligament reconstruction. International Society for Chaos Theory in Psychology and Life Sciences Conference in Toronto, Canada. August 2023.
3. Buck A, **Lisee C,** Bjornsen E, Büttner C, Favoreto N, Spang J, Blackburn T, Pietrosimone B. Does normalizing walking speed normalize gait biomechanics in patients with anterior cruciate ligament reconstruction? ACSM Annual Meeting and World Congress. May 2023.
4. Collins K, **Lisee C,** Harkey M, Goss DD, Pfeiffer K, Kim J, Kuenze C. Peak Minute-level Free-living Cadence is Associated with Laboratory Gait Speed and Vertical Ground Reaction Forces Following Anterior Cruciate Ligament Reconstruction. 2023 American Society of Biomechanics Annual Meeting. August 2023.
5. Harkey MS, Michel N, Grozier C, Slade J, Collins K, Pietrosimone B, Lalush D, **Lisee C,** Hacihaliloglu I, Fajardo R. Femoral Cartilage Ultrasound Echo-Intensity is a Valid Measure of Cartilage Composition Compared to T2 Relaxation Times in Patients After Anterior Cruciate Ligament Reconstruction. OARSI 2023 World Congress. March 2023
6. Collins K, Harkey M, Baez S, **Lisee C,** Birchmeier T, Triplett A, McGuire T, Kuenze C. Knee Function is Associated with Limb Loading Symmetry Among Women 6 Months Following Anterior Cruciate Ligament Reconstruction. Orthopedic Research Society (ORS) Annual Meeting. February 2023.
7. Bjornsen E, Berkoff D, Blackburn T, Davis-Wilson H, Evans-Pickett A, Franz J, Harkey M, **Lisee C,** Luc-Harkey B, Munsch A, Nissman D, Pfeiffer S, Pietrosimone B. Comparing Ground Reaction

- Force Profiles in Individuals Early Following Anterior Cruciate Ligament Reconstruction to Individuals with Radiographic Knee Osteoarthritis. OARSI 2023 World Congress. March 2023.
8. Buck A, **Lisee C**, Bjornsen E, Schwartz T, Spang J, Franz J, Blackburn T, Pietrosimone B. Biomechanical Threshold Values for Identifying Posttraumatic Osteoarthritis-Related Symptoms Six Months following Anterior Cruciate Ligament Reconstruction. OARSI 2023 World Congress. March 2023.
 9. Büttner C, **Lisee C**, Bjornsen E, Buck A, Hu J, Mo J, Thoma L, Spang J, Blackburn T, Pietrosimone B. Gait Biomechanics Differ Early Following Anterior Cruciate Ligament Reconstruction between Individuals Engaging in Different Daily Step Counts. OARSI 2023 World Congress. March 2023
 10. **Lisee C**, Baez S, Bjorsen E, Büttner C, Buck A, Blackburn Troy, Hu J, Thoma L, Spang J, Creighton A, Kamath G, Pietrosimone B. Preoperative Kinesiophobia, Not Pain, is Associated with Aberrant Gait Biomechanics Following Anterior Cruciate Ligament Reconstruction. Accepted for presentation at OARSI 2023 World Congress.
 11. Kuenze C, **Lisee C**, Triplett A, Collins K, Walaszek M, Lewis J, Farner N, Baez S. Development and Validation of a Survey to Characterize Barriers to Physical Activity Reengagement after Anterior Cruciate Ligament Reconstruction. 2023 Pediatric Research in Sports Medicine Society Annual Meeting.
 12. Spang J, Obudzinski S, Pietrosimone B, Creighton RA, Kamath G, Longobard L, Loeser R, **Lisee C**. Serum Biochemical Biomarker Profiles Linked to Poor Knee Joint Health Are Not Associated with OA-Related Symptoms at 12 Months Post-ACLR. AOSSM 2023.
 13. **Lisee C**, Davis-Wilson H, Thoma L, Lalush D, Spang J, Pietrosimone B. Women Who Take Low Daily Steps Demonstrate Poor Medial Femoral Cartilage Composition 6 to 12 Months Following Anterior Cruciate Ligament Reconstruction. Thurston Arthritis Research Center Research Day. October 2022.
 14. **Lisee C**, Evans-Pickett A, Davis-Wilson H, Longobardi L, Franz JR, Munsch AE, Pietrosimone B. Association between biochemical joint tissue response to loading and femoral cartilage composition after knee surgery. ACSM 2022 Annual Meeting and World Congress. June 2022.
 15. Armitano-Lago C, Davis-Wilson H, Evans-Pickett A, **Lisee C**, Kershner CE, Blackburn T, Franz JR, Nissman D, Pietrosimone B. More regular gait patterns associate with worse femoral cartilage composition following anterior cruciate ligament reconstruction. ACSM 2022 Annual Meeting and World Congress. June 2022.
 16. **Lisee C**, Collins K, Harkey M, Covassin T, Pfeiffer K, Kovan J, Currie K, Kuenze C. Cumulative Loading is Associated with Thicker Femoral Cartilage after ACL Reconstruction. National Athletic Trainers Association Annual Meeting. June 2022.
 17. Kuenze C, Collins K, Hart JM, Grindstaff TL, Baez SE, Walaszek M, Triplett AN, **Lisee C**, Birchmeier T, Genoese F, Reiche E, Harkey MS. Adults Are More Likely Than Adolescents to Report Early Knee OA Symptoms 6 Months After Anterior Cruciate Ligament Reconstruction. OARSI 2022 World Congress. April 2022.
 18. Collins K, Harkey M, Triplett A, **Lisee C**, Kuenze C. Knee-related Symptoms Do Not Influence Physical Activity Engagement Among Adolescents with Anterior Cruciate Ligament Reconstruction. OARSI 2022 World Congress. April 2022.

19. **Lisee C**, Horton WZ, Bjornsen E, Davis-Wilson HC, Blackburn JT, Fisher MB, Pietrosimone B. Stance phase gait biomechanics differ between adolescents and adults after ACLR. 2022 ACL Research Retreat. March 2022.
20. Bjornsen E, Armitano-Lago CN, Blackburn JT, Fisher MB, Kershner CE, **Lisee CM**, Nissman DB, Spang JT, Pietrosimone B. Between-limb changes in femoral articular cartilage composition in adolescent and young adult females following ACL reconstruction: An exploratory analysis. 2022 ACL Research Retreat. March 2022.
21. Kershner C, Armitano-Lago C, **Lisee C**, Bjornsen E, Evans-Pickett A, Longobardi L, Fisher M, Pietrosimone B. Adolescents demonstrate increases in joint tissue metabolism preoperatively to 6 months after anterior cruciate ligament reconstruction. 2022 ACL Research Retreat. March 2022.
22. Kuenze CM, Weaver A, Grindstaff T, Ulman S, Norte GE, Roman DP, Giampetruzzi N, **Lisee C**, Birchmeier T, Triplett A, Farmer B, Hopper H, Sherman D, Ness BM, Collins K, Walaszek M, Baez S, Harkey MS, Wilcox CL, Schorfhaar A, Shingles M, Tulchin-Francis K, Ellis H, Wilson PL, Chang E, Hart JM. Development of an Interactive Dashboard for Comparison of Performance-Based and Patient-Reported Outcome Measures among Adolescents 5 to 7 Months after ACL Reconstruction. 2022 ACL Research Retreat. March 2022.
23. **Lisee C**, Spang J, Loeser R, Longobardi L, Lalush D, Nissman D, Schwartz T, Hu D, Pietrosimone B. Lateral tibiofemoral T1 ρ relaxation times differ based on serum biomarker profiles in anterior cruciate ligament injured patients. OARSI 2021 World Congress. Virtual Meeting. April 2021.
24. Bjornsen E, Blackburn T, Lalush D, **Lisee C**, Nissman D, Schwartz T, Spang JT, Pietrosimone B. Loading during midstance of gait is associated with tibiofemoral articular cartilage composition following anterior cruciate ligament reconstruction. OARSI 2021 World Congress. Virtual Meeting. April 2021.
25. Evans-Pickett A, **Lisee C**, Horton Z, Lalush D, Nissman D, Blackburn J, Spang JT, Pietrosimone B. Higher 12-month T1 ρ relaxation times associated with lower knee adduction moment during walking in anterior cruciate ligament reconstruction patients. To be presented at the 2021 OARSI World Congress. Virtual Meeting. April 2021.
26. Triplett AN, Collins KA, **Lisee CM**, McGuire TG, Wilcox CL, Kuenze CM. Adolescents with recent ACL reconstruction take fewer steps per day than their uninjured peers. Virtual ACSM. June 2021.
27. **Lisee C**, Harkey M, Walker Z, Pfeiffer K, Covassin T, Kovan J, Currie K, Kuenze C. Ultrasound Assessment of Femoral Cartilage Thickness after Anterior Cruciate Ligament Reconstruction: A Longitudinal and Case Control Study. National Athletic Trainers' Association Annual Meeting. Virtual Meeting. June 2021.
28. Pietrosimone B, Davis-Wilson HC, Evans-Pickett A, Blackburn JT, Franz JR, Spang JT, Thoma L, **Lisee C**. Biomechanical underloading during gait is linked to less physical activity in the first 6-12 months following anterior cruciate ligament reconstruction. National Athletic Trainers' Association Annual Meeting. Virtual Meeting. June 2021.
29. Collins K, **Lisee C**, Birchmeier T, Triplett A, Kuenze C, Walking Speed is Not Associated with Knee-related Symptoms Acutely Following ACL Reconstruction. Orthopedic Research Society Annual Meeting. Virtual. February 2021.

30. **Lisee C**, Harkey M, Walker Z, Pfeiffer K, Covassin T, Kovan J, Currie K, Kuenze C. Ultrasound Assessment of Femoral Cartilage Thickness after Anterior Cruciate Ligament Reconstruction: A Longitudinal and Case Control Study. Great Lakes Athletic Trainers Association Conference. March 2020.
31. **Lisee C**, Montoye AHK, Lewallen NF, Hernandez M, Bell DR, Kuenze C. Individuals with ACL reconstruction spend fewer weekly minutes in moderate-to-vigorous intensity step accumulation compared to healthy participants. National Athletic Trainers Association Annual Meeting. Virtual Conference. June 2020.
32. Birchmeier TB, **Lisee C**, Triplett A, Charlick M, Shingles M, Schorfhaar, Wilcox CL, Kuenze C. Quadriceps Strength Characteristics Do Not Significantly Improve From 6- to 9-months After Anterior Cruciate Ligament Reconstruction. National Athletic Trainers Association Annual Meeting. Virtual Conference. June 2020.
33. **Lisee C**, Birchmeier T, Yan A, Kuenze C. Quadriceps strength characteristics predict sagittal plane movement of stair descent and landing. National Athletic Trainers Association Annual Meeting. Las Vegas, NV. June 2019.
34. **Lisee C**, Polin J, Ballard E, Kuenze C. Lower extremity kinematic and kinetic sex differences in landing among individuals with a history of anterior cruciate ligament reconstruction. OARSI 2019 World Congress. Toronto, Canada. May 2019.
35. Kuenze C, **Lisee C**, Birchmeier T, Triplett A, Wilcox CL, Schorfhaar A, Shingles M. Sex Differences in Knee Extension Rate of Torque Development and Patient-reported Function Among Individuals with Anterior Cruciate Ligament Reconstruction. OARSI 2019 World Congress. Toronto, Canada. May 2019.
36. Kuenze C, Birchmeier T, Kovan J, **Lisee C**. Physical and Psychological Predictors of Single-leg Drop Landing Biomechanics ACL Reconstruction. 2019 American College of Sports Medicine Annual Meeting. Orlando, FL. May 2019.
37. **Lisee C**, Birchmeier T, Yan A, Kuenze C. Quadriceps strength characteristics predict sagittal plane movement of stair descent and landing. Great Lakes Athletic Trainers Association Conference. Wheeling, IL. March 2019.
38. **Lisee C**, Lepley A, Birchmeier T, O'Hagan K, Kuenze C. Quadriceps Strength and Volitional Activation after Anterior Cruciate Ligament Reconstruction(ACLR): A Systematic-Review and Meta-Analysis. National Athletic Trainers' Association Annual Meeting. New Orleans, LA. 2018.
39. **Lisee C**, Birchmeier T, Yan A, Geers B, O'Hagan K, Davis C, Kuenze C. The relationship between vertical ground reaction force and soundwave characteristics during a single leg landing. American College of Sports Medicine Annual Meeting. Minneapolis, MN. May 2018.
40. **Lisee C**, Lepley A, Birchmeier T, O'Hagan K, Kuenze C. Quadriceps Strength and Volitional Activation after Anterior Cruciate Ligament Reconstruction(ACLR): A Systematic-Review and Meta-Analysis. Council of Graduate Students Graduate Academic Conference. East Lansing, MI. 2018.
41. Kuenze C, **Lisee C**, Trigsted S, Post E, Bell DR. A Critical Evaluation of the Landing Error Scoring System for Individuals with ACL Reconstruction. National Athletic Trainers' Association Annual Meeting. New Orleans, LA. 2018.

42. **Lisee C**, Slater L, Hertel J, Hart J. Lower Extremity Strength, Functional Performance and Limb Symmetry Among Healthy Subjects. National Trainers' Association Conference Annual Meeting. Houston, TX. June 2017.
43. Kuenze C, **Lisee C**, Kelly A. Comparison of unilateral and symmetry based outcomes in patients with ACL reconstruction and those with meniscus pathology. National Trainers' Association Conference Annual Meeting. Houston, TX. June 2017.
44. Kelly A, **Lisee C**, Kuenze C. Landing Error Scoring Symmetry in Individuals With and Without a History of ACL Reconstruction. National Trainers' Association Conference Annual Meeting. Houston, TX. June 2017.
45. **Lisee C**, Slater L, Hertel J, Hart J. Lower Extremity Strength, Functional Performance and Limb Symmetry Among Healthy Subjects. Great Lakes Athletic Trainers Association Conference. Wheeling, IL. March 2017.
46. Kuenze C, **Lisee C**, Kelly A. Comparison of unilateral and symmetry-based outcomes in patients with ACL reconstruction and those with meniscus pathology. Great Lakes Athletic Trainers Association Conference. Wheeling, IL. March 2017.

EXTRAMURAL FUNDING

Summary: Total Funding Awarded as PI=\$12,700; Total Funding Awarded as Co-I=\$499,535

District III Research and Grant Award Program

Mid Atlantic Athletic Trainers' Association

Title: Determining the Role of Physical Activity on Cartilage Health following ACL Reconstruction

Role: Principal Investigator

Amount: \$3000.00

Description: The overall study objective is to establish the link between physical activity, early knee cartilage composition changes, and cartilage resiliency to loading in individuals after anterior cruciate ligament reconstruction (ACLR).

Source: Clinically Applied loadsols© NBD 2020 Contest from novel

Title: Associations between involved limb loading identified by force plates and loadsols© during gait in underloaders with a history of anterior cruciate ligament reconstruction

Role: PI

Award: 3 pairs of novel loadsols©

Description: Establish validity and agreement of loadsols© with treadmill belt force plates to identify underloading and changes in loading through real-time gait biofeedback in individuals with a history of ACLR

Arthritis Foundation PTOA Platform

Title: Biomechanical Changes Following ACL Injury that Influence the Development of Posttraumatic Osteoarthritis

Role: Co-Investigator

Pietrosimone (PI)

Amount: \$499,535.00

Period: 8/1/2020 - 7/31/2022

Description: investigate the time course of biomechanical loading within the first 12 months post-ACLR and how biomechanical loading outcomes associate with joint tissue metabolism, cartilage composition and patient-reported outcomes in individuals post-ACLR.

GLATA Research Assistance Grant (Student Grant Program)

Title: Quality and quantity of knee joint loading in post-traumatic osteoarthritis development (LOAD) after ACL reconstruction

Role: PI

Faculty Advisor: Dr. Christopher Kuenze, Ph.D., ATC

Amount: \$2,500.00

Period: 2019-2020

Description: Determine how quality and quantity of knee joint mechanical loading at 4 months post-ACLR contribute to early femoral articular cartilage CSA and thickness in individuals 6 months post-ACLR.

NATA Research & Education Foundation (Doctoral Grant)

Title: The impact of involved limb quadriceps dysfunction on single leg movement quality after ACLR

PI: Caroline Lisee, M.Ed., ATC

Faculty Advisor: Dr. Christopher Kuenze, Ph.D., ATC

Amount: \$2,500.00

Period: 2017-2018

Description: Compare kinematic differences between individuals with a history of ACLR who have healthy and limited quadriceps function during a progression of single leg tasks

PENDING EXTRAMURAL FUNDING

Summary: Total Funding Pursued as PI = \$542,506

Mentored Research Scientist Development Award (Parent K01 – Independent Clinical Trial Required)

Institute: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Title: Steps Towards Osteoarthritis Prevention

Role: PI

Mentors: Pietrosimone, Loeser, Li, Lalush

Amount: \$542,506.00

Description: The overall study objective is to determine the mechanistic links between joint loading frequency and comprehensive magnetic resonance imaging (MRI) measures of knee joint cartilage health in individuals 6-12 months post-ACLR.

INTRAMURAL FUNDING

Summary: Total Funding Awarded as PI=\$36,860; Total Funding Awarded as Co-I=\$50,000

UNC Department of Orthopaedics Laurence E. Dahners Research Grant

Title: Predictive value of patient-reported and biochemical biomarker profiles in the development of post-traumatic osteoarthritis following anterior cruciate ligament reconstruction

Role: Co-PI

Amount: \$10,395.00

Description: Determine changes in the prevalence of symptomatic patients preoperatively, 6 months post-ACLR, and 12 months post-ACLR, the ability of preoperative symptomatic status to predict symptomatic classification at 1 year post-ACLR, and associations between biochemical biomarkers of inflammation and cartilage degradation with symptomatic classifications post-ACLR.

TARC Core Center for Clinical Research Pilot and Feasibility Studies

Title: Limb Underloading post-ACL Reconstruction and Increased Cartilage Strain: Identifying Biomechanical Phenotypes at Risk for Posttraumatic Osteoarthritis and the Potential for Precision Gait Retraining in Posttraumatic Osteoarthritis Prevention

Role: Co-I

Pietrosimone and Lalush (Co-PIs)

Amount: \$50,000.00

Description: Establish the premise for a mechanism linking underloading gait phenotypes to posttraumatic osteoarthritis development, which will advance precision medicine through individualized gait retraining

Source: National Carolina Translational and Clinical Sciences Institute Pilot 2K Grant (2KR1372103)

Title: Preventing Posttraumatic Osteoarthritis with Physical Activity Promotion

Role: PI

Amount: \$2,000.00

Description: The overall objective of this pretest-posttest experimental pilot study is to determine how optimizing free-living mechanical loading through PA promotion improves cartilage composition in individuals who demonstrate insufficient free-living mechanical loading after ACLR.

Michigan State University College of Education Dissertation Completion Fellowship

Amount: \$7,000.00

Period: January 2020 – May 2020.

Description: Data collection, processing, analysis and writing of dissertation project assessing relationship ultrasound assessment of knee articular cartilage and mechanical loading in individuals after ACLR

Michigan State University College of Education Summer Fellowship

Amount: \$6,000.00

Period: May 2019 – August 2019

Description: Data collection, processing and analysis of study assessing reliability of novel ultrasound assessment of knee articular cartilage change after a period of walking in healthy participants

Michigan State University Department of Kinesiology Dissertation Development

Amount: \$3,465.00

Period: January 2019 – May 2019

Description: Determine how different characteristics of knee joint loading contribute to early femoral articular cartilage deformation changes in high risk individuals after ACLR

Michigan State University Department of Kinesiology Dissertation Development

\$3,000.00

Period: December 2017 – December 2018

Description: Exploratory analysis assessing the relationship between sedentary behavior, joint loading and fear of re-injury in individuals with ACLR and compare these outcomes in healthy age and sex-matched controls

Michigan State University College of Education Summer Research Development Fellowship

Amount: \$5,000.00

Period: May 2017 – August 2017

Description: Develop research practicum project, write and submit project to University's IRB and write literature review of quadriceps strength and activation in individuals with a history of ACLR

GRANT PROPOSALS (NOT FUNDED)

Summary: Total Funding Pursued = \$1,238,037

NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Required)

Institute: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Title: Establishing *in vivo* mechanistic links between daily steps and cartilage health following knee injury

Role: Postdoctoral Research Associate

Pietrosimone and Kuenze (Co-PIs)

Amount: \$417,999.00

Description: Establish the *in vivo* mechanistic link between loading frequency (i.e. daily steps) and outcomes of joint health related to posttraumatic osteoarthritis development

Exploratory Clinical Trial Grants in Arthritis and Musculoskeletal and Skin Diseases (R21 Clinical Trial Required)

Institute: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Title: Promoting Joint Health with Real-time Gait Biofeedback Following ACL Injury

Role: Postdoctoral Research Associate

Pietrosimone (Co-PI)

Amount: \$622,000.00

Description: Report the feasibility and determine the initial effects of a novel real-time gait biofeedback-based rehabilitation program on gait biomechanics and outcomes related to early PTOA development after ACLR

Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship (Parent F32)

Institute: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Title: Establishing the Link Between Habitual Loading and Posttraumatic Osteoarthritis

Role: PI

Mentors: Brian Pietrosimone, Ph.D. and Dr. Richard Loeser, M.D.

Amount: \$198,038.00

Description: 1) Address training gaps by developing expertise in comprehensive longitudinal study design and data analysis of mechanical and biological outcomes; 2) establish biomarkers of joint tissue metabolism and articular cartilage composition that demonstrate associations with habitual loading 12 months post-ACLR

TEACHING EXPERIENCE

Michigan State University - Teaching Assistant – Primary Instructor

Fall 2016	KIN 108f – Soccer I KIN 126 – Introduction to Athletic Training KIN 127 – Taping and Bracing for Athletic Training KIN 227 – Observation and Clinical Skills in Athletic Training
Spring 2017	KIN 126 – Introduction to Athletic Training KIN 320 – Pathology of Sports Injury
Fall 2017	KIN 126 – Introduction to Athletic Training
Spring 2018	KIN 126 – Introduction to Athletic Training
Summer 2018	KIN 216 – Applied Human Anatomy
Fall 2018	KIN 126 – Introduction to Athletic Training KIN 217 – Applied Human Anatomy Lab
Spring 2019	KIN 103T – Distance Running KIN 127 – Taping and Bracing for Athletic Training KIN 427 – Observation and Clinical Skills in Athletic Training KIN 422 – Advanced Rehabilitation for Athletic Injuries
Fall 2019	

KIN 126 – Introduction to Athletic Training
 KIN 371 – Introduction to Research Methods in Kinesiology

DISSERTATION COMMITTEE MEMBER

Thomas Birchmeier. Change of Direction and Psychological Response to Injury as Risk Factors for Second ACL Injury. Michigan State University May 2021. Non-Voting Member.

MENTORSHIP

PhD Students

August 2022 – Present	Christin Büttner, MS - University of North Carolina at Chapel Hill Current Position: Visiting PhD Scholar
July 2022 – Present	Ashley Buck, MS - University of North Carolina at Chapel Hill Current Position: PhD Student
June 2020 – Present	Elizabeth Bjornsen, MS - University of North Carolina at Chapel Hill Current Position: PhD Student

Masters Students

August 2021 – Present	Madeline Schultz – University of North Carolina at Chapel Hill <i>Master's Thesis:</i> The prevalence of anxiety and depression in patients completing ACLR rehabilitation (<i>In Progress</i>) Current Position: Graduate Assistant Athletic Trainer
August 2017 – May 2019	Chastity Chov, MS, ATC – Michigan State University <i>Master's Thesis:</i> Return to play testing after medial patellofemoral ligament reconstruction. Completed May 2019. Current Position: Assistant Athletic Trainer – San Antonio Spurs
August 2016 – May 2018	Austin Herman, MS, ATC – Michigan State University <i>Master's Thesis:</i> Cryotherapy effects on knee joint kinematics in ACLR patients. Completed May 2018. Current Position: Athletic Trainer Men's Basketball – University of Buffalo
August 2016 – May 2018	Stephen Waltersdorf, MS, ATC – Michigan State University <i>Master's Thesis:</i> Effects of cryotherapy on quadriceps activation and strength in individuals with ACLR. Completed May 2018. Current Position: Assistant Athletic Trainer – Davenport University
August 2016 – May 2017	Erika Ralston, MS, ATC – Michigan State University <i>Master's Thesis:</i> Relationship between ankle, knee and hip range of motion and functional movement quality in division 1 distance runners. Completed May 2017. Current Position: Assistant Athletic Trainer – Duke University
August 2016 – May 2017	Sean O'Neill, MS, ATC – Michigan State University <i>Master's Thesis:</i> Validation of Microsoft® Kinect v2 Sensor for the evaluation of lower extremity kinematics during a jump landing task. Completed May 2017. Current Position: Assistant Athletic Trainer – Colorado Rapids Soccer Club

Physical Therapy Students

January 2022 – May 2022
 Mary Grace Knoll, DPT – University of North Carolina at Chapel Hill
Capstone Project: Physical Activity Promotion Following ACLR. Completed May 2022.
Current Position: Licensed PT in outpatient orthopedics

Medical Residents

January 2022 – Present
 Sarah Obudzinski, MD – University of North Carolina at Chapel Hill
Project: Biochemical biomarkers profiles are linked to poor knee joint health are not associated with OA-related symptoms at 12 months post-ACLR
Current Position: Orthopaedic Surgery Medical Resident at UNC Health

Medical Students

April 2021 – Present
 Daniel O'Connell – University of North Carolina at Chapel Hill
Project: Lateral T1 ρ relaxation time limb asymmetry is linked with knee symptoms associated with osteoarthritis 12 months post-ACLR. Presented at UNC School of Medicine Student Research Day
Current Position: MBA/MD Student

January 2021 – August 2021
 Jessica Hu – University of North Carolina at Chapel Hill
Program: Carolina Medical Student Research Program
Project: Relationships between pre-operative gait biomechanics and novel *in vivo* MRI measures of cartilage composition following ACL injury. Presented at UNC School of Medicine Student Research Day.
Current Position: MD Student

May 2017 – January 2018
 Brent Geers, DO – Michigan State University
Project: Physical activity monitoring machine learning model in ACLR and healthy populations. Presented at MSU Council of Graduate Research Conference.
Current Position: Orthopedic Surgery Resident at Henry Ford Health

May 2017 – January 2018
 Kaitlin O'Hagan, DO – Michigan State University
Project: Physical activity monitoring machine learning model in ACLR and healthy populations. Presented at American Academy of Osteopathy Louisiana Burns Osteopathic Research Conference
Current Position: Orthopedic Surgery Resident at Texas Tech University

May 2017 – January 2018
 Arthur Yan, MS, DO – Michigan State University
Current Position: Physical Medicine and Rehabilitation Resident at Henry Ford Health

Undergraduate Students

August 2022 – May 2023
 Daniel Geinosky – University of North Carolina at Chapel Hill
Project: Diagnostic Accuracy of Clinically Accessible Force Sensing Insoles to Identify Underloaders During Gait Post Anterior Cruciate Ligament Reconstruction. Presented at UNC 23rd Annual Celebration of Undergraduate Research. April 2023.
Current Position: Undergraduate Student in Exercise and Sports Science

August 2022 – May 2023
 Elena Einaudi – University of North Carolina at Chapel Hill
Project: Physical Activity Patterns in Men and Women Within the First Six Months Following Anterior Cruciate Ligament Reconstruction. Presented at UNC 23rd Annual Celebration of Undergraduate Research. April 2023.
Current Position: Undergraduate Student in Exercise and Sports Science

June 2021 – May 2022	Tyler Parrish – University of North Carolina at Chapel Hill <i>Current Position:</i> Undergraduate Student in Biology
August 2017 – May 2019	Tess McGuire, MS – Michigan State University <i>Projects:</i> The relationship between quadriceps strength characteristics and sagittal plane knee kinematics and kinetics in men and women with ACLR. Presented at MSU Undergraduate Research and Arts Forum April 2019; Sex related differences in single-leg hopping, quadriceps strength and patient reported outcomes after ACL reconstruction. Presented at MSU Undergraduate Research and Arts Forum April 2018 <i>Current Position:</i> Field Clinical Specialist at BIOTRONIK
August 2016 – May 2018	Callum Davis – Michigan State University <i>Projects:</i> Relationships between fear of re-injury between fear of re-injury and single leg crossover landing biomechanics in individuals with a history of ACLR. Presented at MSU Undergraduate Research and Arts Forum April 2018; Sex differences in single leg landing forces among college-aged individuals. Presented at MSU Undergraduate Research and Arts Forum April 2017 <i>Current Position:</i> DPT Student at Grand Valley State University

Research Assistants

January 2021 – May 2023	Jamison Dorsey – University of North Carolina at Chapel Hill <i>Project:</i> Changes in Cartilage Composition Post-ACLR after an 8-Week Adaptive Daily Step Promotion Intervention: A Pilot Study. Presented at Human Movement Science Research Symposium. May 2023. <i>Current Position:</i> Master of Science in Nursing at Yale University
November 2022 – June 2023	Banks Cisne – University of North Carolina at Chapel Hill <i>Project:</i> Test-Retest, Intra-Rater, and Inter-Rater Reliability of Cartilage Thickness Segmentation for Implementation in Cartilage Strain Assessment. May 2023. <i>Current Position:</i> Research Assistant in the MOTION Science Institute

SERVICE

October 2022 – Present	Secretary - Athletic Trainers Osteoarthritis Consortium
August 2020 – Present	Core Planning Team. University of North Carolina Sports Medicine Institute
April 2021	Planning Committee Member. National Biomechanics Day 2021.
July 2020 – December 2021	OACS Vlog and Planning Committee Member. 2020 Osteoarthritis Clinical Studies (OACS) Forum Series. Arthritis Foundation.
December 2018 – October 2020	Social Media Coordinator - Athletic Trainers Osteoarthritis Consortium
December 2018 – June 2020	Executive Board Student Liaison - Athletic Trainers Osteoarthritis Consortium
January 2017 – May 2020	Contributing Member to “Raise Awareness about Osteoarthritis Work Group” - Athletic Trainers Osteoarthritis Consortium

May 2016 – May 2019	Professional Development Chair - Kinesiology Graduate Student Organization of Michigan State University.
May 2017 – May 2019	Curriculum Committee Member - Kinesiology Graduate Student Organization of Michigan State University.

MANUSCRIPT REVIEWER

May 2023- Present	Osteoarthritis and Cartilage (Impact Factor=7.507) **Completed Peer Reviewer Training Program
April 2023 – Present	Journal of Orthopaedic Research (Impact Factor=3.494)
October 2022 - Present	Journal of Rheumatology (Impact Factor=4.666)
December 2020 - Present	Arthritis Care and Research (Impact Factor=4.794)
November 2020 – Present	Medicine & Science in Sports and Exercise (Impact Factor=6.289)
May 2019 – Present	Clinical Biomechanics (Impact Factor=2.063)
August 2018 – Present	Journal of Athletic Training (Impact Factor=2.86)
November 2016 – Present	Journal of Sport Rehabilitation (Impact Factor=1.931)

PROFESSIONAL AFFILIATIONS

2019 – Present	Osteoarthritis Research Society International
2017 – Present	American College of Sports Medicine
2016 – Present	Athletic Trainers Osteoarthritis Consortium
2009 – Present	National Athletic Trainers' Association
2016 – 2020	Great Lakes Athletic Trainers Association
2015 – 2016 2020 – Present	Mid-Atlantic Athletic Trainers' Association
2009 – 2015	Eastern Athletic Trainers' Association

CERTIFICATIONS & LICENSURES

2013 – Present	Board of Certification (#2000013778) NPI #: 1083065213 Status: Good Standing
2016 – 2020	Michigan Athletic Training Licensure