

CURRICULUM VITA

Shelby Elyse Baez, Ph.D., ATC

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CV Updated: March 2023

Educational Background

Doctor of Philosophy in Rehabilitation Sciences

University of Kentucky, Lexington KY
Dissertation: Injury-Related Fear in Patients after ACL Reconstruction
Conferred: May 2019

Master of Science in Athletic Training

University of Kentucky, Lexington, KY
CAATE Accredited Post-Professional Program
Research Project: Use of Response Shift to Enhance Agreement between Patient-Reported Outcome Measures and Performance-Based Testing in Knee Patients
Conferred: May 2016

Bachelor of Art in Exercise and Sports Science - Athletic Training

University of North Carolina at Chapel Hill, Chapel Hill, NC
Conferred: May 2013

Professional Experience

Assistant Professor

University of North Carolina at Chapel Hill, Chapel Hill, NC

Primary Appointment: College of Arts and Sciences, Department of Exercise and Sport Science, July 1, 2022 – Present

Adjunct Appointment: College of Arts and Sciences, Department of Exercise and Sport Science, January 6, 2022 – June 2022

Director: The Psychology of Sport Injury Laboratory, July 1, 2022 - Present

Assistant Professor

Michigan State University, East Lansing, MI

Primary Appointment: College of Education, Department of Kinesiology, August 16, 2019 – June 30, 2022

Program Affiliation: College of Natural Science, Neuroscience Program, July 8, 2021 – June 30, 2022

Director: The Behavioral Research & Athletic Injury Neuroscience (BRAIN) Laboratory, November 1, 2020 – June 30, 2022

Mental Performance Consultant Intern

Midway University, Midway, KY

Midway University Athletics, March 2018 – May 2019

Research Assistant

University of Kentucky, Lexington, KY

Research Assistant to Dr. Johanna Hoch, August 2017 – June 2019

Old Dominion University, Norfolk, VA

Research Assistant to Dr. Johanna Hoch, August 2016 – May 2017

Clinical Athletic Trainer

University of Kentucky Graduate Assistant, Lexington, KY

Head Athletic Trainer, Midway University, August 2014 – May 2016

ActivCare Physical Therapy, Clayton, NC

Assistant Athletic Trainer, July 2013 – April 2014

Honors and Awards

1. American College of Sports Medicine New Investigator Award, March 2023
2. Approved Non-Certified Mentor by the Certification Council of the Association for Applied Sport Psychology, February 2022
3. University of Kentucky John Getchell Grant Writing Award, April 2021
4. Association for Applied Sport Psychology Doctoral Dissertation Award, October 2020
5. American Psychological Association Division 47 Professional Poster Award, August 2020
6. US Bone and Joint Young Investigators Initiative Member, February 2020
7. National Athletic Trainers' Association Research & Education Foundation Research/Faculty Mentor Program, January 2020
8. Lyman T. Johnson Torch of Excellence for African-American Alumni Award, October 2019
9. Association of Applied Sport Psychology Student Travel Award, October 2019
10. University of Kentucky College of Health Sciences Robinson Graduate Award for Research Creativity, March 2019
11. National Athletic Trainers' Association Research & Education Foundation Doctoral Scholarship Recipient, June 2018
12. Lyman T Johnson Fellowship, University of Kentucky, August 2014-May 2016, August 2018-May 2019.

Publications

Peer-Reviewed Manuscripts - (N= 34; *indicates student mentorship)

1. Reiche ET*, Lam K, Genoese FM, **Baez SE**. Integrating mindfulness to reduce injury rates in athletes: a critically appraised topic. *Int J Athl Ther Train*. Accepted 3/28/2023.
2. Loftin M, Covassin T, **Baez SE**. Application of theory for those with sport-related concussion: understanding the impact of athletic identity on health outcomes. *J Athl Train*. Accepted 1/20/2023.
3. Kuenze CM, Weaver A, Grindstaff TL, Ulman S, Norte GE, Roman DP, Giampetruzzi N, et al. Reference values for clinical outcomes in adolescent patients receiving from ACL reconstruction: considerations for sex and age. *J Orthop Sports Phys Ther*. Accepted 1/7/2023.

4. Bain KA, **Baez SE**, Kosik KB, Hoch MC, Hoch JM, Johnson NF, Andreatta RD, Gribble PA. Relationship between health-related quality of life and lower extremity visuomotor reaction time following lateral ankle sprain. *J Sports Rehabil*. Accepted 12/7/2022.
5. Kuenze CM, Lisee C, Triplett A, Collins K, Walaszek M, Lewis J, Farner N, Harkey M, **Baez SE**. Development and validation of a survey to characterize barriers to physical activity reengagement after anterior cruciate ligament reconstruction: ACL research survey. *J Athl Train*. Accepted 11/18/2022.
6. **Baez SE**, Collins KA, Harkey MS, Birchmeier T, Triplett AN, Pietrosimone B, Kuenze CM. Kinesiophobia is associated with peak knee abduction angle during jump landing after ACL reconstruction. *Med Sci Sport Exerc*. 2023;55(3):462-468.
7. Driban J, Vincent H, Rojjan T, Ambrose K, **Baez SE**, Beresic N, Berkoff D, et al. Preventing osteoarthritis after an anterior cruciate ligament injury: an osteoarthritis action alliance consensus statement. *J Athl Train*. Accepted 9/30/2022
8. Driban J, Vincent H, Rojjan T, Ambrose K, **Baez SE**, Beresic N, Berkoff D, et al. Evidence review for preventing osteoarthritis after an anterior cruciate ligament injury: an osteoarthritis action alliance consensus statement. *J Athl Train*. Accepted 9/30/2022
9. Genoese FM*, Harkey MC, **Baez SE**. The neuromatrix theory of pain and transactional theory of stress and coping: improving understanding of pain catastrophizing in individuals with ACL reconstruction and knee OA. *Int J Athl Ther Train*. Accepted 8/23/2022.
10. Genoese FM*, Zynda A, Ford K, Hoch MC, Covassin T, Hoch JM, **Baez SE**. The examination of knee self-efficacy in individuals with a history of ACL reconstruction and sport-related concussion. *J Sports Rehabil*. Accepted 7/28/22.
11. Suttmiller A, **Baez SE**, Cavallario J, Martinez J, Mccann R. Perceived instability, pain, and psychological factors predict function and disability in individuals with chronic ankle instability. *J Athl Train*. Accepted 2/18/2022. <https://doi.org/10.4085/1062-6050-0605.21>
12. Kuenze C, Collins K, Triplett AN, Bell DR, Norte GE, **Baez SE**, Harkey MS, Lisee CM. Adolescents are less physically active than adults 6 to 12 months after anterior cruciate ligament reconstruction. *Ortho J Sport Med*. Accepted 11/12/2021.
13. **Baez SE**, Andersen A, Andreatta R, Cormier M, Gribble P, Hoch JM. Authors' Response. *J Athl Train*. 2021;56(10):1156-1158.
14. Harkey M, **Baez SE**, Lewis J, Grindstaff T, Hart J, Driban J, Schorfhaar A, Kuenze C. Prevalence of early knee osteoarthritis illness using patient-reported classification criteria at six months following anterior cruciate ligament reconstruction. *Arthritis Care Res*. Accepted October 14, 2021. <https://doi.org/10.1002/acr.24809>
15. **Baez SE**, Cormier MC, Andreatta R, Gribble PA, Hoch JM. Implementation of *in vivo* exposure therapy to decrease injury-related fear in females with a history of ACL reconstruction: a pilot study. *Phys Ther Sport*. 2021; 52:217-223.

16. Avedesian JM, Covassin T, **Baez SE**, Nash J, Nagelhout E, Dufek J. The relationship between cognition and lower extremity injury risk in collegiate athletes: implications for sports-related concussion. *Orthop J Sports Med.* 2021;9(8):1-10.
17. **Baez SE**, Hoch JM, Mattacola CG, Gribble PA, Howard JS. Use of response shift to improve agreement between patient-reported outcomes and performance-based measures in patients with knee injury. *Clin Pract Athl Train.* 2021;4(1):24-35. (BIPOC Special Issue)
18. Brinkman C*, **Baez SE**, Quintana CQ, Andrews M, Hoch MC, Heebner N, Hoch JM. The reliability of an upper and lower extremity visuomotor reaction time task. *J Sports Rehabil.* 2021;30(5): 828-831.
19. Genoese FM*, **Baez SE**, Hoch MC, Heebner N, Hoch JM. Examination of the relationship between injury-related fear and visuomotor reaction time in patients after anterior cruciate ligament reconstruction. *J Sports Rehabil.* 2021;30(3):353-359.
20. Barchek A*, Dlugonski D, **Baez SE**, Hoch MC, Hoch, JM. The relationship between injury-related fear and physical activity levels in people with a history of anterior cruciate ligament reconstruction. *Phys Ther Sport.* 2021; 50:201-205.
21. **Baez SE**, Andersen A, Andreatta RM, Gribble PA, Hoch JM. Neuroplasticity in corticolimbic brain activation in patients after anterior cruciate ligament reconstruction. *J Athl Train.* 2021;56(4):418-426.
22. **Baez SE**, Hoch JM, Cormier MC. The Stress and Injury Model and the Cognitive Appraisal Model: Implications for patients after anterior cruciate ligament reconstruction. *Athl Train Sports Health Care.* 2020;12(4):181-187.
23. **Baez SE**, Hoch MC, Hoch JM. Psychological factors are associated with return to preinjury sport and physical activity levels after ACL-reconstruction. *Knee Surg Sports Traumatol Arthrosc.* 2020;28(4):495-501.
24. Hoch JM, Houston MN, **Baez SE**, Hoch MC. Fear-avoidance beliefs and health-related quality of life in post-ACL reconstruction and healthy athletes: a case control study. *J Sports Rehabil.* 2020;29(6):772-776.
25. Brinkman C*, **Baez SE**, Genoese FG, Hoch JM. Use of goal-setting to enhance self-efficacy after sports-related injury: a critically appraised topic. *J Sports Rehabil.* 2020;29(4):498-502.
26. Barchek A*, **Baez SE**, Hoch MC, Hoch JM. The relationship between musculoskeletal injury and objectively measured physical activity levels: a critically appraised topic. *J Sports Rehabil.* 2020;29(2):243-247.
27. Hunt E, **Baez SE**, Olson A, Butterfield T, Dupont-Versteegden E. Using massage to combat fear-avoidance and the pain tension cycle. *Int J Athl Train Ther.* 2019 Oct;24(5):198-201.
28. Hoch JM, **Baez SE**, Hoch MC. Examination of ankle function in individuals with a history of ACL reconstruction. *Phys Ther Sport.* 2019;36:55-61.
29. **Baez SE**, Cramer RJ, Hoch JM. Social cognitive theory and the fear avoidance model: the explanation of poor health outcomes after ACL reconstruction. *Athl Train Sports Health Care.* 2019;11(4):168-173.
30. Hoch JM, **Baez SE**, Cramer RJ, Hoch MC. Differences in the modified disablement in the physically active scale in those with and without chronic ankle instability. *J Sport Rehabil.* 2019, 28, 476-480.

31. Genoese FM*, **Baez SE**, Hoch JM. The association of fear-avoidance beliefs and self-reported knee function in patients with a knee injury: a critically appraised topic. *Int J Athl Ther Train*. 2018;23(5):187-191.
32. **Baez SE**, Hoch MC, Hoch, JM. Evaluation of cognitive behavioral interventions and psychoeducation implemented by rehabilitation specialists to treat fear-avoidance beliefs in patients with low back pain: a systematic review. *Arch Phys Med Rehabil*. 2018;99(11):2287-2298.
33. Hoffman E*, D'Onofrio A*, **Baez SE**, Cavallario J. The effectiveness of kinesio-tape in decreasing kinesiophobia in patients with musculoskeletal pain: a critically appraised topic. *Int J Athl Ther Train*. 2018;23(1):10-15.
34. **Baez SE**, Hoch JM, Uhl TL. The effectiveness of cervical traction and exercise in decreasing neck and arm pain in patients with cervical radiculopathy: a critically appraised topic. *Int J Athl Ther Train*. 2017;22(5):4-11.

Publications in Review (N= 13; *indicates student mentorship)

1. Genoese F*, Reiche ET, Harkey M, **Baez SE**. No relationship between upper and lower extremity visuomotor reaction time in individuals with anterior cruciate ligament reconstruction. *Percept Mot*. In Review.
2. **Baez SE**, Genoese FM, Reiche ET, Harkey MS, Kuenze CM, Moser J, Pietrosimone B. Feasibility of Mobile Application-Delivered Mindfulness Meditation for Individuals with History of Anterior Cruciate Ligament Reconstruction. *Intl J Athl Ther Train*. In Review.
3. Brinkman CA*, Reiche ET, Genoese FM, Hoch JM, **Baez SE**. No association between injury-related fear and isokinetic quadriceps strength in individuals with a history of anterior cruciate ligament reconstruction. *Sports Health*. In Review.
4. Tracey AJ, Bateman AG, **Baez SE**, Covassin T. Effectiveness of interventions for the improvement of mental health and well-being post-concussion: a systematic review. *Brain Injury*. In Review.
5. Murray M*, Wekesser M, DeFreese J, Kuenze CM, Gould D, **Baez SE**. Patient perceptions of psychological and rehabilitation experiences after ACL reconstruction: a qualitative study. *J Athl Train*. In Review.
6. **Baez SE**, Jochimsen KN. Current clinical concepts: integration of psychologically informed practice for management of sports-related injuries. *J Athl Train*. In Review.
7. Harkey MS, Driban JB, **Baez SE**, Genoese FM, Reiche E, Collins K, Walaszek M, Triplett A, Wilcox CL, Schorfhaar A, Shingles M, Joseph S, Kuenze C. Longitudinal change in meeting classification criteria for early knee osteoarthritis symptoms throughout the first two years after anterior cruciate ligament reconstruction. *Am J Sports Med*. In Review.
8. Reiche E*, Collins K, Genoese F, Walaszek M, Triplet A, Kuenze C, Harkey M, **Baez SE**. Individuals with contact ACL injuries exhibit slower lower-extremity reaction time than individuals with non-contact ACL injuries. *J Athl Train*. In Review.
9. **Baez SE**, Reiche ET, Genoese FM, Walaszek MC, Collins KA, Triplett AN, Harkey MS, Kuenze CM. Adolescents and adults experience a different psychological response to injury after ACL reconstruction. *Med Sci Sport Exerc*. In Review.

10. Birchmeier T, Lisee C, **Baez SE**, Ranganathan R, Covassin T, Schorfhaar A, Kuenze CM. Knee biomechanics do not differ between sagittal plane and multiplanar tasks performed at 45 degree angle after ACL reconstruction. *Phys Ther Sport*. In Review.
11. Genoese FM*, Walaszek, MC, Collins KA, Reiche E, Triplett A, Harkey MS, Kuenze CM, **Baez SE**. No sex differences in lower extremity visuomotor reaction time in individuals with anterior cruciate ligament reconstruction. *J Sports Rehabil*. In Review.
12. Collins KA, Harkey MC, **Baez SE**, Lisee CM, 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. *Med Sci Sport Exerc*. In Review.
13. **Baez SE**, Harkey MC, Birchmeier T, Triplett A, Collins K, Kuenze C. Psychological readiness and injury-related fear are associated with early knee osteoarthritis illness after ACL reconstruction. *J Athl Train*. In Review.

Textbook Contributions

1. **Baez SE** and Genoese FM. Chapter 14 box: The fear of moving. In: Andreatta R, ed. *Neuroscience Fundamentals for Communication Sciences and Disorders*. 2nd edition. Plural Publishing; 2022.

Presentations

Invited Presentations (N=18)

1. **Baez SE**. Understanding psychological responses after traumatic knee injuries. *UNC Chapel Hill Sports Medicine Lunch & Learn*. March 22, 2023. Chapel Hill, NC.
2. **Baez SE**. Psychologically informed practice to enhance outcomes after sports-related injury. *North Carolina Athletic Trailers' Association*. March 3, 2023. Winston Salem, NC.
3. **Baez SE**. Understanding psychological responses after traumatic knee injuries. *Massachusetts General Hospital/Harvard University*. February 10, 2023. Virtual Presentation.
4. **Baez SE**. Injury-related fear in patients after anterior cruciate ligament reconstruction. *UNC Chapel Hill Social Psychology Seminar Series*. January 30, 2023. Chapel Hill, NC.
5. **Baez SE**. Assessment and intervention of injury-related fear after ACL reconstruction. *UNC Chapel Hill Exercise and Sport Science Seminar Series*. January 25, 2023. Chapel Hill, NC.
6. **Baez SE**. Psychological rehabilitation and mental health care for athletes. *2023 USA Lacrosse Sports Medicine Symposium*. January 20, 2023. Baltimore, MD.
7. **Baez SE**. Psychologically informed clinical practice: addressing psychosocial factors to enhance outcomes after knee injury. *University of North Carolina Sports Medicine Institute Annual Conference*. September 30, 2022.
8. **Baez SE**. Psychological rehabilitation and mental health care for athletes. *Baylor University*. September 27, 2022.
9. **Baez SE**. Coping with injury: using mental skills to enhance recovery. *Nike*. September 15, 2022.

10. **Baez SE**, Goodway J, Blanton J. Midwest Sport and Exercise Psychology Symposium (MSEPS) Faculty Panelist. *Michigan State University*. February 25, 2022.
11. **Baez SE**. Psychologically informed clinical practice: Addressing psychosocial factors to enhance clinical outcomes. *University of Illinois Chicago Department of Kinesiology and Nutrition*. November 30, 2021.
12. **Baez SE**. Your emotional brain: addressing injury-related fear to improve health outcomes after traumatic knee injury. *Neuroscience Program Seminar, Michigan State University*. November 15, 2021.
13. Jochimsen K, **Baez SE**. The who, when, & how of mental health screening in athletes. *Mid-Atlantic Athletic Trainers' Association Annual Meeting and Symposium*. Charlotte, North Carolina, May 2021. EBP Keynote Presentation.
14. **Baez SE**, Baer R. Psychological rehabilitation and mental health for student-athletes. *Athletic Training Education Endowment Fund, Michigan State University*. April 19, 2021.
15. **Baez SE**. Your emotional brain: the psychological and neurological consequences of injury-related fear after ACL reconstruction, *Old Dominion University College of Health Sciences*. April 5, 2021.
16. **Baez SE**. Psychologically informed clinical practice: Addressing psychosocial factors to enhance clinical outcomes. *NATA Webinar Continuing Education Series*. February 6, 2020.
17. **Baez SE**. Injury-related fear in patients after ACL reconstruction. *UNC-Chapel Hill Department of Exercise and Sports Science*. December 18, 2019.
18. **Baez SE**. Addressing psychosocial factors to improve outcomes after sports-related injury. *Michigan Athletic Trainers' Society Student Seminar*. October 20, 2019.

Abstracts/Peer-Reviewed Original Research Presentations (N =70; *indicates student mentorship)

Local

1. **Baez SE**, Andersen AH, Andreatta RD, Noehren BW, Gribble PA, Cormier MC, Hoch JM. Neuroplasticity and corticolimbic brain regions in patients after Anterior Cruciate Ligament reconstruction. *2019 College of Health Sciences Research Day*, Lexington, KY, May 2019, Poster Presentation.
2. **Baez SE**, Hoch JM, Cramer R, Powden CJ, Hogan KK, Hoch MC. Differences in the modified disablement in the physically active scale in those with and without chronic ankle instability. *2018 College of Health Sciences Research Day*, Lexington, KY, April 2018, Poster Presentation.
3. Santiago GM, Pointer CE, **Baez SE**, Clines S, Hartley EM, Hoch JM. Differences in ankle function in post-ACL reconstruction subjects. *Old Dominion University GRAD Day*, Norfolk, VA, March 2017, Oral Presentation; co-author.

State/Regional

1. Desai P*, Genoese F, Reiche E, **Baez SE**. No association between injury-related fear and isokinetic quadriceps strength in individuals with a history of anterior cruciate ligament reconstruction. *Michigan Osteopathic Association Autumn 2021 Virtual SRE*, East Lansing, MI. 2nd place best poster award.

2. **Baez SE**. Psychologically informed clinical practice: Addressing psychosocial factors to enhance clinical outcomes. *Mid-Atlantic Athletic Trainers' Association Annual Meeting and Symposium*. Ocean City, Maryland, May 2019. Accepted for Special Topics presentation.
3. **Baez SE**, Andersen AH, Andreatta RD, Noehren BW, Gribble PA, Cormier MC, Hoch JM. Activation in Corticolimbic Brain Regions during a Sports-Specific Picture Imagination Task in Patients after Anterior Cruciate Ligament Reconstruction. *29th Annual Midwest Sport and Exercise Psychology Symposium*. Lexington, Kentucky. February 2019. Accepted for Podium Presentation.

National/International

1. **Baez SE**, Reiche ET, Brinkman CA, Genoese FM. Differences in Physical Activity between Individuals with High and Low Kinesiophobia after ACL Reconstruction. *American College of Sports Medicine Annual Meeting*. May 2023. Denver, CO. *New Investigator Award Winner
2. Birchmeier T, **Baez SE**, Collins K, Genoese F, Walaszek M, Kuenze CM. Sex related differences in laboratory and field-based change of direction tasks after ACL reconstruction. *American College of Sports Medicine Annual Meeting*. May 2023. Denver, CO.
3. Reiche ET, Chandler MC, Coffman CA, Genoese FM, Pontifex MB, **Baez SE**. No Difference In Emotional Response Between Threatening Sport And Non-Sport Images In Individuals After Anterior Cruciate Ligament Reconstruction. *American College of Sports Medicine Annual Meeting*. May 2023. Denver, CO.
4. Genoese FM, Reiche ET, Harkey MS, **Baez SE**. No differences in lower extremity visuomotor reaction time between individuals with and without ACL reconstruction. *American College of Sports Medicine Annual Meeting*. May 2023.
5. Hoch JM, **Baez SE**, Kleis RR, Hoch MC, Dlugonski D. Improving patient-based outcomes in individuals with a history of ACL reconstruction: a pilot randomized control trial. *National Athletic Trainers' Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.
6. Genoese FM*, Reiche ET, Collins KA, Walaszek MC, Harkey MS, Kuenze C, **Baez SE**. Sex differences in self-reported systems of anxiety, but not depression, among individuals with ACL reconstruction. *National Athletic Trainers' Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.
7. Reiche ET*, Genoese FM, Collins KA, Walaszek MC, Harkey MS, Kuenze C, **Baez SE**. Kinesiophobia is associated with lower extremity perceptual-motor function after ACL reconstruction. *National Athletic Trainers' Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.
8. Brinkman CA*, Reiche E, Genoese FM, Hoch JM, **Baez SE**. No association between injury-related fear and isokinetic quadriceps strength in individuals with history of anterior cruciate ligament reconstruction. *National Athletic Trainers' Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.
9. **Baez SE**, Reiche E, Genoese FM. Simple reaction time is associated with self-reported knee function in individuals after anterior cruciate ligament reconstruction. *National Athletic Trainers' Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.

10. **Baez SE**, Kuenze C. Understanding patient perceptions: considering psychosocial barriers for patients with knee injury. *National Athletic Trainers Association 2023 Clinical Symposia & AT Expo*. June 2023. Indianapolis, IN.
11. Mace RA, Lee JL, **Baez SE**, Persky S. Setting up for success in virtual reality-based trials. *Society of Behavioral Medicine 44th Annual Meeting & Scientific Sessions*. April 2023. Phoenix, AZ.
12. Collins K, Harkey M, **Baez SE**, Lisee C, Birchmeier T, Triplett A, McQuire T, Kuenze C. Function is associated with limb loading symmetry among women 6 months following anterior cruciate ligament reconstruction. *Orthopaedic Research Society 2023 Annual Meeting*. February, 2023. Dallas, TX.
13. Kuenze C, Collins K, Weaver A, Giampetruzzi N, Grindstaff T, Farmer B, Walaszek M, **Baez SE**, Harkey M. Biologic sex and age influence quadriceps strength 6 months post-anterior cruciate ligament reconstruction. *Orthopaedic Research Society 2023 Annual Meeting*. February, 2023. Dallas, TX.
14. Kuenze C, Lisee C, Triplett A, Collins K, Walaszek M, Lewis J, Farner N, **Baez SE**. Development and validation of a survey to characterize barriers to physical activity reengagement after anterior cruciate ligament reconstruction. *Pediatric Research in Sports Medicine Society Annual Meeting*. Denver, CO. February 2023
15. Zynda AJ, Klott K, Tomczyk CP, Loftin MC, Pollard-McGrandy AM, Tracey AJ, **Baez SE**, Covassin T. To play or not to play?: Sensorimotor impairments at medical clearance following sport-related concussion. *Big Ten-Ivy League 2022 TBI Research Summit*. Philadelphia, PA. July 2022.
16. DeFreese JD, Beisecker L, Chandran A, **Baez SE**. Athlete identity, burnout, and psychological health in self-identified athletes during the COVID-19 pandemic. *APA Annual Convention Division 47 program*. Minneapolis, MN. August 2022. Poster Presentation.
17. Zynda AJ, **Baez SE**, Wallace J, Kuenze C, Covassin T. The Reliability of a Computerized Sensory Station for the Assessment of Visual and Sensorimotor Skills. *American College of Sports Medicine 69th Annual Meeting Presentation*. May 31 – June 4, 2022, San Diego, CA.
18. **Baez SE**, Genoese FM, Harkey MS, Pietrosimone B, Kuenze CM. Mobile-delivered mindfulness meditation in individuals with ACL reconstruction: A phase I, single-arm feasibility study. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
19. Kuenze C, **Baez SE**. Considering sex differences to improve patient care after traumatic knee injury. *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
20. Reiche ET*, Genoese FM, Harkey MS, Collins K, Walaszek M, Triplett A, Kuenze CM, **Baez SE**. No differences in lower extremity reaction time between patients with contact and non-contact ACL injuries. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
21. Genoese FM*, Harkey MS, Kuenze CM, **Baez SE**. The relationship between pain catastrophizing and reaction time in individuals with ACL reconstruction. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.

22. Harkey MS, **Baez SE**, Genoese FM, Reiche E, Collins K, Walaszek M, Triplett A, Wilcox CL, Schorfhaar A, Shingles M, Kuenze C. The majority of individuals meet criteria for early knee osteoarthritis symptoms throughout the first two years post-ACL reconstruction. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
23. Birchmeier T, Lisee C, **Baez SE**, Ranganathan R, Covassin T, Schorfhaar A, Kuenze CM. Knee kinetics during change of direction after ACL reconstruction. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
24. Kuenze C, Collins K, Walaszek MC, Genoese FM, Reiche E, Triplett AN, Harkey MS, Wilcox CL, Schorfhaar A, Shingles M, Joseph S, **Baez SE**. Adolescents and adults experience different psychological response to injury five months after ACL reconstruction. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
25. Bain KA, **Baez SE**, Hoch JM, Johnson NF, Andreatta RD, Hoch MC, Kosik KB, Gribble PA. The relationship between constructs of health-related quality of life and lower extremity visuomotor reaction time in females with history of lateral ankle sprain. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
26. Suttmiller AMB, Cavallario JM **Baez SE**, Martinez JC, McCann RS. Perceived instability, pain, and psychological factors predict function and disability in individuals with chronic ankle instability. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022. Philadelphia, PA.
27. Zynda AJ, Tomczyk CP, Loftin MC, Pollard-McGrandy AM, Tracey AJ, **Baez SE**, Covassin T. Differences in visual and sensorimotor skills in college students with and without a history of concussion. Accepted at the *National Athletic Trainers Association 2022 Clinical Symposia & AT Expo*. June 2022, Philadelphia, PA.
28. 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. Accepted at the *2022 Osteoarthritis Research Society International World Congress on Osteoarthritis*. April 2022. Berlin, Germany.
29. Harkey MS, **Baez SE**, Genoese FM, Reiche E, Collins K, Walaszek M, Triplett A, Wilcox CL, Schorfhaar A, Shingles M, Joseph S, Kuenze C. Longitudinal change in the prevalence of early knee osteoarthritis symptoms across various time-periods after anterior cruciate ligament reconstruction. Accepted at the *2022 Osteoarthritis Research Society International World Congress on Osteoarthritis*. April 2022. Berlin, Germany.
30. **Baez SE**, Harkey MS, Birchmeier, Triplett A, Collins K, Kuenze CM. Psychological readiness and injury-related fear are associated with early knee osteoarthritis illness after ACL reconstruction. Accepted at *ACL Research Retreat IX: The Pediatric Athlete*. March 2022. High Point, NC.
31. Reiche ET*, Collins KA, Genoese FM, Walaszek MC, Triplett AN, Harkey MS, Kuenze CM, **Baez SE**. Elevated injury-related fear is associated with greater knee abduction angle during jump-landing in individuals with ACL reconstruction. Accepted at *ACL Research Retreat IX: The Pediatric Athlete*. March 2022. High Point, NC.

32. Walaszek MW, Collins KA, Genoese FM, Reiche ET, Triplett AN, Harkey M, **Baez SE**, Kuenze C. Landing kinetics do not differ based on meniscal surgical interventions at the time of ACL reconstruction. *ACL Research Retreat IX: The Pediatric Athlete*. March 2022. High Point, NC.
33. Genoese FM*, Walaszek MC, Collins KA, Reiche ET, Triplett AN, Harkey MS, Kuenze CH, **Baez SE**. Sex differences in lower extremity visuomotor reaction time in individuals with history of ACL reconstruction. *ACL Research Retreat IX: The Pediatric Athlete*. March 2022. High Point, NC.
34. Harkey MS, **Baez SE**, Genoese FM, Reiche E, Collins K, Walaszek M, Triplett A, Wilcox CL, Schorfhaar A, Shingles M, Joseph S, Kuenze C. Adolescent and adult participants differ in the change in the prevalence of early knee osteoarthritis symptoms after ACL reconstruction. *ACL Research Retreat IX: The Pediatric Athlete*. March 2022.
35. **Baez SE**, Kuenze C. Understanding patient perceptions: considering psychosocial barriers for patients with knee injury. *Pediatric Research in Sports Medicine Society Annual Meeting*. January 2022.
36. **Baez SE**, Genoese FM, Hoch MC, Hoch JM. Injury-related fear and knee pain in individuals with a history of anterior cruciate ligament reconstruction. *Association for Applied Sport Psychology Annual Symposium*. October 2021. Virtual Poster Presentation.
37. Genoese FM*, DeFreese JD, Hoch MC, Hoch MJ, **Baez SE**. No sex differences in knee self-efficacy in patients after anterior cruciate ligament reconstruction. *Association for Applied Sport Psychology Annual Symposium*. October 2021. Virtual Oral Presentation.
38. **Baez SE**, Cormier MC. Defeating the stigma: Getting patient buy-in for psychological rehabilitation and mental health care. *National Athletic Trainers' Association Annual Meeting and Symposium*. June 2021. Virtual Forum Presentation.
39. **Baez SE**, Genoese-Strathe FM, Hoch MC, Hoch JM. History of sport-related concussion may negatively influence knee self-efficacy in individuals with a history of ACL Reconstruction. *National Athletic Trainers' Association Virtual Meeting and Symposium*. June 2021. Virtual Oral Presentation.
40. Genoese FM*, Hoch MC, Hoch JM, **Baez SE**. Pain catastrophizing is associated with knee-related quality of life in individuals with a history of anterior cruciate ligament reconstruction. *National Athletic Trainers' Association Virtual Meeting and Symposium*. June 2021. Virtual Live Oral Presentation.
41. Hoch JM, **Baez SE**, Kleis RR, Dlugonski D, Hoch MC, Ireland ML. The clinical utility of multiple patient-reported outcomes in people with a history of ACL reconstruction. *National Athletic Trainers' Association Virtual Meeting and Symposium*. June 2021. Virtual Oral Presentation.
42. Kleis RR, **Baez SE**, Dlugoonski D, Hoch MC, Ireland ML, Hoch JM. Test-retest reliability of clinician-based outcomes in individuals with history of ACL reconstruction. *National Athletic Trainers' Association Virtual Meeting and Symposium*. June 2021. Virtual Oral Presentation.
43. **Baez SE**. Your emotional brain: neuroplasticity, injury-related fear, and traumatic knee injury. *American College of Sports Medicine*. Virtual Conference. June 2021. Tutorial Lecture Series.
44. Zynda AJ, Covassin T, **Baez SE**. The influence of sport-related concussion history on self-reported and objective physical functioning following ACL reconstruction. *Sports Neuropsychology Society Symposium*. May 2021. Virtual Poster Presentation.

45. DeFreese JD, **Baez SE**. Examining profiles of collegiate athlete psychosocial factors and burnout and their associations with injury status and psychological well-being. *North American Society for the Psychology of Sport and Physical Activity Virtual Meeting*. May 2021. Virtual Poster Presentation.
46. Jochimsen K, **Baez SE**. The who, when, and how of mental health screening in athletes. *Mid-Atlantic Athletic Trainers Association Virtual Meeting and Symposium*. May 2021. Keynote Presentation.
47. DeFreese JD, **Baez SE**. Injury status and burnout in collegiate athletes. *APA Annual Convention Division 47 program*. Washington, DC. August 2020. Poster Presentation. Professional Poster Award Winner; Co-Author.
48. **Baez SE**, Cormier MC, Noehren BW, Hoch JM. Effectiveness of *in vivo* exposure therapy on decreasing injury-related fear in patients post ACL-reconstruction: an exploratory study. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Atlanta, Georgia. June 2020. Virtual Poster Presentation.
49. Brinkman CA*, **Baez SE**, Heebner NR, Hoch MC, Hoch JM. The reliability of an upper-extremity and lower-extremity visuomotor reaction time task using the FitLight Trainer. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Atlanta, Georgia. June 2020. Virtual Poster Presentation; Co-Author.
50. Barchek AR, Johnson A, **Baez SE**, Dlugonski D, Hoch MC, Hoch JM. The relationship between injury-related fear and physical activity levels in patients with a history of anterior cruciate ligament reconstruction. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Atlanta, Georgia. June 2020. Virtual Oral Presentation; Co-Author.
51. Genoese FM*, Hoch JM, **Baez SE**. Iron deficiency anemia induced peripheral neuropathy in an adolescent athlete: a level 4 rare events CASE study. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Atlanta, Georgia. June 2020. Virtual RapidFire Presentation; Primary Mentor and Co-Author.
52. **Baez SE**, DeFreese JD. Primary motor cortex activation and injury-related fear in patients after anterior cruciate ligament reconstruction. *North American Society for the Psychology of Sport and Physical Activity*. Virtual. June 2020. *J Sport Exerc Psychol*, Aug. 2020, 42, S66.
53. **Baez SE**, DeFreese JD. Neuroplasticity, injury-related fear, and activities of daily living in females after anterior cruciate ligament reconstruction. *North American Society for the Psychology of Sport and Physical Activity*. Virtual. June 2020. *J Sport Exerc Psychol*, Aug. 2020, 42, S66.
54. **Baez SE**, Andersen AH, Andreatta RD, Noehren BW, Gribble PA, Cormier MC, Hoch JM. Corticolimbic brain activation in patients after anterior cruciate ligament reconstruction. *Association of Applied Sports Psychology Annual Symposium*. Portland, Oregon. October 2019. Podium Presentation. AASP Research Travel Award Winner.
55. Genoese FM*, **Baez SE**, Hoch MC, Heeber N, Hoch JM. The relationship between injury-related fear and visuomotor reaction time in individuals after anterior cruciate ligament reconstruction. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Las Vegas, Nevada, June 2019. Oral presentation. Master's Oral Award Winner; Doctoral Mentor and Co-Author.

56. **Baez SE**, Hoch MC, Hoch JM. Patient-based factors are associated with return to preinjury levels of sport and physical activity after ACL-Reconstruction. *Mid-Atlantic Athletic Trainers' Association Annual Meeting and Symposium*. Ocean City, Maryland, May 2019. Oral presentation.
57. **Baez SE**, Hoch MC, Hoch JM. Examination of physical activity levels and fear-avoidance beliefs in participants post-ACL reconstruction. *National Athletic Trainers' Associate Annual Meeting and Symposium*. New Orleans, Louisiana, June 2018. Oral presentation.
58. Hoch JM, Houston MN, **Baez SE**, Hoch MC. Fear-avoidance beliefs and health-related quality of life in post-ACL reconstruction and healthy athletes. *National Athletic Trainers' Associate Annual Meeting and Symposium*. New Orleans, Louisiana, June 2018. Oral presentation; Co-Author.
59. **Baez SE**, Allman AS, Cates SN, Lamborn L. From the lab to the clinic: Implementation of evidence based clinical outcome measures for ACL rehabilitation and return to sport. *National Athletic Trainers' Association Annual Meeting and Symposium*. New Orleans, Louisiana. June 2018. Learning Laboratory presentation.
60. **Baez SE**, Hoch JM, Cramer RJ, Houston MN, Hogan KK, Hoch MC. Differences in the modified disablement in the physically active scale in those with and without chronic ankle instability. 7th *International Ankle Symposium*. Chapel Hill, NC. September 2017. Poster presentation. *Brit J Sports Med*, Oct. 2017, 51(Suppl 1) A15.
61. Santiago GM, Pointer CE, **Baez SE***, Clines S, Hartley E, Hoch JM. Differences in ankle function in post-ACL reconstruction subjects. 7th *International Ankle Symposium*. Chapel Hill, NC. September 2017. Poster presentation. *Brit J Sports Med*, Oct. 2017, 51(Suppl 1) A29. *Presenting Author.
62. **Baez SE**, Howard JS, Mattacola CG, Gribble PA, Hoch JM. Effect of response shift on agreement between patient reported outcome measures and performance-based testing in knee patients. *National Athletic Trainers' Associate Annual Meeting and Symposium*. Houston, TX, June 2017. *J Athl Train*, July 2017, 52(6):S56. Oral presentation.
63. Smoot KM, **Baez SE***, Hoch JM. Morel-lavalle lesion in a collegiate softball athlete. *National Athletic Trainers' Association Annual Meeting and Symposium*. Houston, TX, June 2017. RapidFire presentation. *J Athl Train*, July 2017, 52(6):S202. *Presenting Author.
64. **Baez SE**, Howard JS, Smith B. Viral costochondritis in a female basketball athlete. *National Athletic Trainers' Association Annual Meeting and Symposium*. St Louis, MO June 2015. RapidFire presentation.

Media Appearances/Interviews

Television

1. **Baez SE**. *WILX News 10* segment, interview. "Gymnastics and mental health". July 27, 2021.

Print

1. **Baez SE**. *Self Magazine*, Op-Ed Fitness and Mental Health, interview. "10 signs you really should take a rest day." October 14, 2020.

Teaching

University of North Carolina at Chapel Hill

Undergraduate Courses Taught

EXSS 265: Foundations of Sports Medicine (Spring 2023 [N=40])

Courses Developed

Exercise and Sport Science 581: Biopsychosocial Aspects of Athletic Injury (Spring 2024)

Michigan State University

Undergraduate Courses Taught

Kinesiology 424: Psychology of Injury (Fall 2019 [N=40], Fall 2020 [N=40])

Kinesiology 126: Introduction to Athletic Injury (Spring 2020 [N=39])

Graduate Courses Taught

Kinesiology 921: Biopsychosocial Aspects of Athletic Injury (Fall 2021 [N=12])

Kinesiology 838: General Medical Conditions in Athletic Training (Spring 2021 [N=3])

Courses Developed

Kinesiology 921: Biopsychosocial Aspects of Athletic Injury (Fall 2021)

Mentoring

Doctoral Student Mentorship (N=14; *Chair of Dissertation Committee)

<u>Doctoral Student</u>	<u>University</u>	<u>Program</u>	<u>Year</u>	<u>1st Position Post-Graduation</u>
Nikki Aitcheson-Huehn	UNC-Chapel Hill	Human Movement Sciences	Spring 2023 - Present	
Ling Beisecker	UNC-Chapel Hill	Human Movement Sciences	Spring 2023 - Present	
Caitlin Brinkman*	UNC-Chapel Hill	Human Movement Sciences	Fall 2022 - Present	
Megan Loftin	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Spring 2022 - Present	
Elaine Reiche*	UNC-Chapel Hill	Human Movement Sciences	Fall 2021 - Present	
Oksana Ellison	Michigan State University	Kinesiology – Cognitive and Motor Neuroscience	Spring 2021 - Present	

Tamaria Hibbler	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Spring 2021 - Present	
Christopher Tomczyk	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Spring 2021 – Spring 2023	Visiting Lecturer at Albion College
Mary Anne Walker	Michigan State University	Kinesiology – Sport and Exercise Psychology	Fall 2020 - Present	
Aaron Zynda	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Fall 2020 – Spring 2023	Postdoctoral Fellow at the University of Pittsburgh
Francesca Genoese*	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Fall 2020 - Present	
Katherine Bain	University of Kentucky	Rehabilitation Sciences	Fall 2020 – Fall 2021	Assistant Professor at Shenandoah University
Ashley Suttmiller	Old Dominion University	Kinesiology and Rehabilitation	Spring 2020 – Spring 2021	Research Assistant at Atlantic Orthopaedic Specialists
Thomas Birchmeier	Michigan State University	Kinesiology – Athletic Injury and Rehabilitation	Fall 2019 – Spring 2021	Postdoctoral Fellow at UNC-Chapel Hill

Master Student Membership (N=12; *Chair of Thesis Committee)

<u>Master Student</u>	<u>University</u>	<u>Program</u>	<u>Year</u>
T'era Brown*	UNC-Chapel Hill	Post-Professional Masters in Athletic Training	Fall 2022 - Present
Elizabeth Maheras*	Michigan State University	Professional Masters in Athletic Training	Fall 2021 – Spring 2023
Autumn Bennett*	Michigan State University	Professional Masters in Athletic Training	Fall 2021 – Spring 2023
Mikaela Thompson	University of Kentucky	Sport and Exercise Psychology	Spring 2022 – Spring 2022
Kayla Ford*	Michigan State University	Sport and Exercise Psychology	Fall 2021 – Spring 2022

Brandon DeSmyter*	Michigan State University	Sport and Exercise Psychology	Fall 2021 – Spring 2022
Kevin Lam*	Michigan State University	Professional Athletic Training	Fall 2020 – Spring 2022
Megan Murray*	Michigan State University	Sport and Exercise Psychology	Fall 2020 – Spring 2022
Myles English	University of Kentucky	Sport and Exercise Psychology	Spring 2020 – Spring 2021
Aaron Clifton	Michigan State University	Post-Professional Masters in Athletic Training	Fall 2020 – Spring 2021
Caitlin Brinkman	University of Kentucky	Post-Professional Masters in Athletic Training	Fall 2018 – Spring 2020
Francesca Genoese	University of Kentucky	Post-Professional Masters in Athletic Training	Fall 2017 – Spring 2019

Funding Activities

External Grants (Submitted):

- Source: National Institute of Arthritis Musculoskeletal and Skin Disease (NIH-NIAMS) Ruth L. Kirschstein National Research Service Award (F31-Diversity)
Title: Predicting clinical outcomes using psychophysiological assessments after ACL reconstruction
PI: Elaine Reiche
Role: Sponsor
Effort: 0.0 Calendar Months
Period: 12/01/23 – 11/30/2025
Amount: \$71,541 (Total)
Description: The objective of this proposal is to examine whether late positive potential is associated with injury-related fear at 4-months post-ACLR and predictive of jump-landing biomechanics and perceptual motor function at 9-months post-ACLR.
- Source: Association for Applied Sport Psychology
Title: Don't sleep on getting sleep: Characterizing sleep in patients after ACL reconstruction
PI: Caitlin Brinkman
Role: Faculty Advisor
Effort: 0.0 Calendar Months
Period: 06/01/2023 to 05/31/2024
Amount: \$4,908.97 (Total)
Description: The objective of this proposal is quantitatively and qualitatively characterize sleep and to identify the association between sleep quality and mental health symptoms in patients after ACL reconstruction.

3. Source: National Athletic Trainers Association Research & Education Foundation
Title: The GEMM Trial: Graded Exposure and Mindfulness Meditation for Patients Post ACL-Reconstruction
PI: Shelby Baez
Effort: 0.60 Calendar Months
Period: 08/01/2022 to 07/31/2025
Amount: \$55,912 (Total)
Description: The objective of this proposal is to determine the efficacy of Graded Exposure Therapy and Mobile Mindfulness Meditation to decrease kinesiophobia and reinjury anxiety and improve lower extremity reaction time after ACL reconstruction.

External Grants (Funded):

1. Source: Mid-Atlantic Athletic Trainers Association
Title: Examination of Perceptual-Motor Function in Individuals after ACL Reconstruction
PI: Elaine Reiche
Role: Faculty Advisor
Effort: 0.0 Calendar Months
Period: 11/8/2022 to 11/7/2023
Amount: \$600
Description: The objective of this proposal is to examine differences in perceptual functioning between individuals with history of ACL reconstruction and healthy controls.
2. Source: Great Lakes Athletic Trainers' Association
Title: The Effect of Immersive Visual and Auditory Distraction on Lower Extremity Visuomotor Reaction Time and Jump-Landing Biomechanics in Individuals with Anterior Cruciate Ligament Reconstruction
PI: Francesca Genoese
Role: Co-Faculty Advisor
Effort: 0.0 Calendar Months
Period: 10/01/2022-09/30/2023
Amount: \$1376
Description: The objective of this proposal is to examine how virtual immersive settings that induce distractive states influence reaction time and biomechanics in individuals after ACL reconstruction.
3. Source: Michigan Athletic Trainers' Society
Title: The association of injury-related fear, self-reported knee function, and lower extremity reaction time in patients after ACL reconstruction.
PI: Francesca Genoese
Role: Faculty Advisor
Effort: 0.0 Calendar Months
Period: 01/01/2021– 12/31/2022
Amount: \$500
Description: The objective of this proposal is to examine the relationships between injury-related fear, self-reported knee function, and lower extremity reaction time in patients after ACL reconstruction.
4. Source: National Institute of Arthritis Musculoskeletal and Skin Disease (NIH-NIAMS) Parent K23 Career Development Award (1K23AR079056)
Title: Virtual reality mindfulness meditation in patients after anterior cruciate ligament reconstruction.
PI: Shelby Baez
Effort: 9.72 Calendar Months
Period: 06/05/2021 to 05/31/2026

Amount: \$678, 822 (Total)

Description: The objective of this proposal is to provide protected time for the career development of Dr. Baez and to examine the feasibility and preliminary efficacy of virtual reality mindfulness meditation to decrease injury-related fear, improve jump-landing biomechanics, and alter brain activity in women 9 to 12 months after ACL reconstruction.

5. Source: Great Lakes Athletic Trainers Association
Title: Keeping the Mind in Mind: Use of virtual reality mindfulness meditation to improve outcomes in patients after ACL reconstruction
PI: Shelby Baez
Effort: 0.0 Calendar Months
Period: 11/1/2020 to 10/31/2022 (NCE)
Amount: \$5, 926 (Total)
Description: The objective of this proposal is to examine the preliminary efficacy of virtual reality mindfulness meditation to decrease injury-related fear and improve lower extremity reaction time in patients 9 to 12 months after ACL reconstruction.
6. Source: National Athletic Trainers Association Doctoral Research Grant
Title: Implementation of *in vivo* exposure therapy to decrease fear in females after ACL-reconstruction: a pilot study.
PI: Shelby Baez
Effort: 0.0 Calendar Months
Period: 08/1/2018 to 07/31/2019
Amount: \$2, 488 (Total)
Description: The objective of this proposal is to examine the efficacy of *in vivo* exposure therapy to decrease injury-related fear in women at least 1-year after ACL reconstruction.
7. Source: Mid-Atlantic Athletic Trainers' Association Doctoral Research Grant.
Title: Examination of physical activity, patient-based and functional outcomes after ACL reconstruction.
PI: Shelby Baez
Effort: 0.0 Calendar Months
Period: 10/1/2016 to 09/30/2018 (NCE)
Amount: \$620 (Total)
Description: The objective of this proposal is to identify whether a combination of patient-based and functional outcomes are predictive of physical activity and return to sport after ACL reconstruction.
8. Source: National Athletic Trainer's Association Foundation Master Student Grant.
Title: Use of response shift to improve agreement between patient-reported outcome measures and performance-based testing in knee patients.
PI: Shelby Baez
Effort: 0.0 Calendar Months
Period: 08/1/2015 to 07/31/2016
Amount: \$1000 (Total)
Description: The objective of this proposal is to identify whether a response theory-based intervention would improve the agreement between patient-reported outcomes and performance-based measures in patients with knee injuries.

External Grants (Not Funded):

4. Source: National Athletic Trainers Association Research & Education Foundation

- Title: Mobile-Application Delivered Mindfulness Meditation (Mobile MM) for patients post-ACL reconstruction.
PI: Shelby Baez
Effort: 0.60 Calendar Months
Period: 08/01/2022 to 07/31/2025
Amount: \$56,772 (Total)
Description: The objective of this proposal is to determine the efficacy of Mobile Mindfulness Meditation to decrease kinesiophobia and improve reaction time after ACL reconstruction.
5. Source: Great Lakes Athletic Trainers Association Professional Grant
Title: The effects of extended rehabilitation with social support on clinical outcomes after ACL reconstruction.
PI: Christopher Kuenze
Role: Co-I
Effort: 0.0 Calendar Months
Amount: \$6,000 (Total)
Description: The objective of this proposal is to examine whether extended rehabilitation with social support could improve outcomes in women after ACL reconstruction.
6. Source: Association for Applied Sport Psychology
Title: The influence of motivation on injury-related fear and athlete burnout in patients post-anterior cruciate ligament reconstruction.
PI: Megan Murray
Role: Faculty Advisor
Effort: 0.0 Calendar Months
Amount: \$2,009.99 (Total)
Description: The objective of this proposal is to examine the influence of motivation on injury-related fear and athlete burnout in patients after ACL reconstruction.
7. Source: National Athletic Trainers Association New Investigators Grant.
Title: Virtual reality mindfulness meditation and sensorimotor brain function in patients post-ACL Reconstruction.
PI: Shelby Baez
Effort: 0.60 Calendar Months
Amount: \$23,000 (Total)
Description: The objective of this proposal is to examine the preliminary efficacy of virtual reality mindfulness meditation to decrease injury-related fear and improve sensorimotor brain function in patients post-ACL reconstruction.
8. Source: National Institute of Arthritis Musculoskeletal and Skin Disease Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research
Title: Neural mechanisms of fear in patients after anterior cruciate ligament reconstruction.
PI: Shelby Baez
Effort: 9.00 Calendar Months
Amount: \$82,588 (Total)
Description: The objective of this proposal is to provide protected time for the training of Shelby Baez, to examine differences in brain activity in emotional regulation centers in patients after ACL reconstruction, and to examine the efficacy of in vivo exposure therapy to decrease injury-related fear after ACLR.

9. Source: American College of Sports Medicine Doctoral Research Grant
Title: Neuroplasticity, neurocognitive functioning, and biopsychosocial impairments after ACL reconstruction: a case control study
PI: Shelby Baez
Effort: 0.00 Calendar Months
Amount: \$4987.50 (Total)
Description: The objective of this proposal is to examine differences in brain activity between women with history of ACL reconstruction compared to women without history of ACL reconstruction.

Internal Grants (Submitted):

Internal Grants (Funded):

1. Source: NC TraCS Clinical & Translational Science Pilot Grant Program
Title: Feasibility and validity of smart ring technology to reduce barriers for assessment of physical and mental health and well-being
Co-PI: Shelby Baez (Co-PI: Malia Blue)
Effort: 0 Calendar Months
Period: 04/03/2023 to 04/02/2024
Amount: \$48,628 (Total)
Description: The objective of this proposal is to examine the feasibility, acceptability, and validity of the Oura Ring to measure physical activity in recreationally active adults.
2. Source: Michigan State University College of Education Seed Grant Program.
Title: Neural processing and injury-related fear in patients after anterior cruciate ligament reconstruction.
PI: Shelby Baez
Period: 01/01/2020 to 12/31/2021 (NCE)
Effort: 0.00 Calendar Months
Amount: \$2,800 (Total)
Description: The objective of this proposal is to examine differences in electrocortical activity between women with history of ACL reconstruction compared to women without history of ACL reconstruction.
3. Source: University of Kentucky Division of Athletic Training Project Funds
Title: The relationship between fear-avoidance beliefs, neurocognitive reaction time, and visuomotor reaction time in patients post-anterior cruciate ligament reconstruction.
PI: Francesca Genoese
Role: Co-I
Period: 06/30/2018 to 05/31/2019
Effort: 0.00 Calendar Months
Amount: \$367.60 (Total)
Description: The objective of this proposal is to examine the relationship between injury-related fear and visuomotor reaction time in patients after ACL Reconstruction
4. Source: University of Kentucky Graduate School Pilot Funds Grant.
Title: Neuroplasticity and biopsychosocial impairments after anterior cruciate ligament reconstruction: a pilot study
PI: Shelby Baez
Period: 01/01/2018 to 12/31/2018

Effort: 0.00 Calendar Months

Amount: \$367.60 (Total)

Description: The objective of this proposal is to attain preliminary data examining the differences in brain activity between women with history of ACL reconstruction compared to women without history of ACL reconstruction.

Internal Grants (Not Funded):

1. Source: UNC Chapel Hill Junior Faculty Development Award
Title: Mobile mindfulness meditation for patients after traumatic knee injury
PI: Shelby Baez
Period: 01/01/2023-12/31/2023.
Effort: 0.00 Calendar Months
Amount: \$9929 (Total)
Description: The objective of this proposal is to examine the feasibility and preliminary efficacy of mobile mindfulness meditation to reduce injury-related fear and improve reaction time in patients between 6- to 12-months after ACL reconstruction.

Grants in Support of Research Mentorship

1. Source: Michigan State University Summer Research Fellowship
PI: Francesca Genoese
Role: Faculty Advisor
Period: 05/31/2022 to 08/30/2022
Effort: 0.00 Calendar Months
Amount: \$6,000 (Total)
2. Source: Michigan State University Summer Research Development Fellowship
PI: Francesca Genoese
Role: Faculty Advisor
Period: 05/31/2021 to 08/30/2021
Effort: 0.00 Calendar Months
Amount: \$6,000 (Total)
3. Source: Michigan State University Summer Research Fellowship
PI: Aaron Zynda
Role: Co-Faculty Advisor
Period: 05/31/2021 to 08/30/2021
Effort: 0.00 Calendar Months
Amount: \$6,000 (Total)
4. Source: Michigan State University Summer Research Development Fellowship
PI: Aaron Zynda
Role: Co-Faculty Advisor
Period: 05/31/2020 to 08/30/2020
Effort: 0.00 Calendar Months
Amount: \$5,000 (Total)

Professional Service

National Service

Journal Editor

1. Associate Editor. International Journal of Athletic Therapy and Training (Fall 2020 – Present)

Editorial Board Member

1. Journal of Athletic Training (Spring 2022 – Present)
2. Journal of Sports Rehabilitation (Fall 2021 – Present)
3. Injury Prevention and Rehabilitation – Frontiers in Sports and Active Living (Spring 2021 – Present)
4. Journal of Clinical Sport Psychology (Fall 2020 – Present)

Manuscript Reviewer

1. Medicine & Science in Sport & Exercise (Fall 2020 – Present)
2. Journal of Science and Medicine in Sport (Spring 2020 – Present)
3. Sports Health (Spring 2020 – Present)
4. Sports Medicine (Fall 2019 – Present)
5. Physiotherapy Theory and Practice (Fall 2019 – Present)
6. Journal of Sports Rehabilitation (Fall 2017- Fall 2021)
7. International Journal of Athletic Therapy and Training (Fall 2017-Fall 2020)

Journal Social Media

1. Co-Host of JAT Chat for the Journal of Athletic Training (Fall 2021 – Present)

Convention Program Reviewer

1. Association of Applied Sport Psychology Convention Proposal Review (Spring 2020 – Present)
2. Great Lakes Athletic Trainers' Association Convention Proposal Reviewer (Fall 2019 – Present)
3. National Athletic Trainers' Association Convention Proposal Reviewer (Fall 2018 – Present)

Conference Moderator

1. ACL Research Retreat Moderator (Spring 2022)
2. NATA Free Communications Program Moderator (Summer 2022 – Present)

National Committees

1. ATOAC Promotion Working Group, (Summer 2022 – Present)
2. AASP Sport Injury Special Interest Group, (Fall 2022 – Present)

Regional Service

1. Directed inservice on psychological interventions for pain management at Michigan State University Physical Therapy (Spring 2020)
2. UNC Sports Medicine Institute Women's Health Initiative – Member (Fall 2022 – Present)

Departmental Service

1. HMSC Cultural Shift Committee, (Fall 2022 – Present)
2. Director, College of Education Early Success Scholars Kinesiology Programming (Summer 2021-Summer 2022)
3. Athletic Training Faculty Search Committee Member (Spring 2022)
4. Michigan State Powerlifting Club, Faculty Advisor (Fall 2021 – Spring 2022)
5. Faculty Equity and Inclusion Committee (Fall 2021 – Spring 2022)
6. Guest lecture to Kinesiology Graduate Student Organization (KGSO) on Research and Diversity Statements (Spring 2020)
7. Deb Feltz Endowment Lecture Series on Sport, Exercise, and Human Movement Science in Africa Committee Member (Spring 2020 – Spring 2022)
8. Athletic Training Faculty Search Committee Member (Fall 2019-Spring 2020)
9. Graduate Studies Committee Member (Fall 2019 – Spring 2021)

Certifications

1. Michigan Licensed Athletic Trainer (2601002350), December 2019 – Present.
2. Kentucky Licensed Athletic Trainer (AT 1155), June 2014 – June 2019.
3. North Carolina Licensed Athletic Trainer (2273), June 2013 – June 2014.
4. BOC Certification (2000012765), May 2013 – Present. NPI: 1326588286
5. American Red Cross: CPR/AED for Professional Rescuers and Health Care Providers, May 2010 – Present.

Memberships

1. North American Society for the Psychology of Sport and Physical Activity, January 2020 – Present: *Member*
2. Great Lakes Athletic Trainers' Association, July 2019 – July 2022: *Member*
3. Association for Applied Sports Psychology, February 2018 – Present: *Member*.
4. American College of Sports Medicine, November 2017 – Present: *Member*.
5. Kentucky Athletic Trainers' Society, August -2017 – June 2019. *Member*
6. Graduate Athletic Trainers' Association: University of Kentucky, August 2015 – May 2016: *President*.
7. Mid-Atlantic Athletic Trainer's Association, January 2011 – Present: *Member*.
8. National Athletic Trainers' Association, January 2011 - Present (42504): *Member*.

