

ELAINE REICHE, MS, LAT, ATC, CSCS

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EDUCATION

Doctor of Philosophy in Human Movement Science University of North Carolina Chapel Hill	Anticipated 2025
Doctor of Philosophy in Kinesiology Michigan State University Concentration: Athletic Injury and Rehabilitation	2021-2022
Master of Science in Exercise Science Auburn University Concentration: Exercise Physiology	2016-2018
Bachelor of Science in Athletic Training Texas State University-San Marcos Minor: Psychology Honors: Magna Cum Laude	2012-2016

PROFESSIONAL EXPERIENCE

2022 – Present	Graduate Research Assistant , Psychology of Sport Injury (PSI) Laboratory University of North Carolina, Chapel Hill, NC Lab Director: Dr. Shelby Baez
2021 – 2022	Graduate Research Assistant , Behavioral Research & Athletic Injury Neuroscience (BRAIN) Laboratory Michigan State University, East Lansing, MI Lab Director: Dr. Shelby Baez

CLINICAL EXPERIENCE

2019 – 2021	Occupational Health Athletic Trainer , ATI Worksite Solutions, AlloSource, Centennial, CO
2018 – 2019	Outreach Athletic Trainer , Benchmark Physical Therapy, Nashville, TN
2016 – 2018	Graduate Athletic Trainer , USA Team Handball, Auburn University

SERVICE

Ad-Hoc Journal Reviewer	
International Journal of Athletic Therapy and Training	Impact Factor > 1.7
Measurement in Physical Education and Exercise Science	Impact Factor > 2.5
Journal of Sports Rehabilitation	Impact Factor > 1.7

Professional Services:
Guest Lecturer in MS Athletic Training General Medical Course

FUNDING

Total External Funding Pursued: \$30,000 ; Total External Funding Awarded: \$0

PENDING EXTERNAL GRANTS

FUNDED EXTERNAL GRANTS

UNFUNDED EXTERNAL GRANTS

1. De Luca Foundation Rethink EMG Challenge (E.Reiche, Principal Investigator, S. Baez, Co-Investigator):
“Relationship Between Fear Response, Lower Extremity Reaction Time, and Muscle Inhibition After Anterior Cruciate Ligament Reconstruction,” \$30,000 (not funded, November 2021)
[X] Formulated Concept [X] Aims [X] Research Plan [] Budget [] Supporting Documents

AWARDS

Michigan State University Distinguished Fellowship Nominee	2021
Kenny Howard Athletic Training Fellowship Recipient	2016 – 2018
Texas Health Ben Hogan Sports Medicine Scholarship	2015 – 2016
Texas State University Dean’s List	2013 – 2016
Texas State Athletic Training Scholarship	2013 – 2016
Texas State Achievement Scholarship	2012 – 2016
Salutatorian, San Marcos High School	2012

TEACHING EXPERIENCE

UNIVERSITY OF NORTH CAROLINA, GRADUATE TEACHING ASSISTANT

Undergraduate Course

EXSS 181: Sport and Exercise Psychology Fall 2022

MICHIGAN STATE UNIVERSITY, GRADUATE TEACHING ASSISTANT

Undergraduate Courses

KIN 127: Taping and Bracing in Athletic Injury Spring 2022

KIN 125: First Aid and Personal Safety Fall 2021

Graduate Courses

KIN 837: Upper Body Therapeutic Interventions Spring 2022

TENNESSEE STATE UNIVERSITY, ADJUNCT INSTRUCTOR

Undergraduate Courses

HPSS 3190: Adult Fitness Fall 2019

RELATED RESEARCH EXPERIENCE

UNIVERSITY OF NORTH CAROLINA PSYCHOLOGY OF SPORT INJURY LAB (PSI) LABORATORY

Dr. Shelby Baez

Graduate Student Fall 2022 – Present

Conducting clinical trial for neuromuscular rehabilitation and virtual reality interventions to improve patient psychological outcomes after ACL reconstruction (ACLR). Specific research interests Elaine’s research seeks to understand changes in postural control and neurocognitive function after ACL injury and reconstruction.

Additionally, develop interventions to enhance motor learning during rehabilitation that are also designed to address maladaptive neurocognitive and psychological responses.

MICHIGAN STATE UNIVERSITY BEHAVIORAL RESEARCH & ATHLETIC INJURY NEUROSCIENCE (BRAIN) LABORATORY

Dr. Shelby Baez

Graduate Student Fall 2021 – Summer 2022

Collecting psychophysiological (EEG), neurocognitive, and biomechanical (Motion Capture) data in individuals post-anterior cruciate ligament (ACL) reconstruction. This data is used to inform psychological interventions for individuals with an increased fear response following ACL reconstruction (ACLR) to reduce secondary injury risk. Current interventions include virtual reality mindfulness meditation for patients with ACLR for individuals exhibiting maladaptive fear responses after ACLR. Specific research interests include quadriceps activation during lower extremity visuomotor reaction time (LE VMRT) tasks for individuals with high fear response after ACLR, comparing LE VMRT of those who sustain ACL injuries against healthy controls, and understanding mechanism between quadriceps inhibition, return to sport, and fear.

AUBURN UNIVERSITY PEDIATRIC MOVEMENT AND PHYSICAL ACTIVITY LABORATORY

Dr. Melissa Pangelinan

Volunteer

Spring 2017 – Spring 2019

Recruited participants and collected baseline concussion assessment data using SCAT5, Biodex balance systems, eye tracking, and BESS testing on local high school football athletes for a study of concussion on cerebellar activity.

AUBURN UNIVERSITY SPORTS MEDICINE AND MOVEMENT LABORATORY

Dr. Gretchen Oliver

Volunteer

Fall 2016 – Fall 2017

Assisted with data collection on softball players, youth baseball pitchers, polo athletes, and youth lacrosse players using the EMG MotionMonitor system with Ascension technology and force plates. Data was collected for various purposes but primarily for determining normative data in softball players as a more objective measure to determine recovery in collegiate and professional pitchers following game days and bullpen practices.

SCHOLARSHIP

PEER-REVIEWED JOURNAL ARTICLES (in print or accepted)

2020

1. Feiss R, Lutz M, **Reiche E**, Moody J, Pangelinan M. *A systematic review of the effectiveness of concussion education programs for coaches and parents of youth athletes*. International journal of environmental research and public health. 2020 Jan;17(8):2665.
 Research Design Statistical Analysis Drafted Manuscript Revised Manuscript Data Collection

2019

2. Feiss R, Dolinger SB, Merritt M, **Reiche E**, Martin K, Yanes JA, Thomas CM, Pangelinan M. *A systematic review and meta-analysis of school-based stress, anxiety, and depression prevention programs for adolescents*. Journal of youth and adolescence. 2019 Sep;48(9):1668-85.
 Research Design Statistical Analysis Drafted Manuscript Revised Manuscript Data Collection

MANUSCRIPTS SUBMITTED FOR REVIEW

1. **Reiche E**, Collins K, Genoese F, Walaszek M, Triplett A, Kuenze C, Harkey M, Baez S. *Individuals with Contact ACL Injuries Exhibit Slower Lower-Extremity Reaction Time than Individuals with Non-Contact ACL Injuries*. J Athl Train. 2022. In review.
 Research Design Statistical Analysis Drafted Manuscript Revised Manuscript Data Collection

2. 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. *Most Individuals Present with Early Knee Osteoarthritis Symptoms Throughout the First Two Years After Anterior Cruciate Ligament Reconstruction*. Submitted to Arthritis Care and Research.
 Research Design Statistical Analysis Drafted Manuscript Revised Manuscript Data Collection

ABSTRACTS (in print or accepted)

2022

1. **Reiche ET**, Genoese FM, Harkey MS, Collins K, Walaszek M, Triplett A, Kuenze CM, Baez. No differences in lower extremity visuomotor reaction time between patients with contact and non-contact ACL injuries. Accepted at the 2022 National Athletic Trainers’ Association Clinical Symposia. June 2022. Philadelphia, PA
2. Kuenze C, Collins K, Walaszek MC, Genoese F, **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 Clinical Symposia. June 2022. Philadelphia, PA.
3. 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.
4. 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.
5. **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.

MEMBERSHIPS

National Athletic Training Association (NATA)	Fall 2013 – Present
National Strength and Conditioning Association Professional Member	June 2019 – Present
NATA Research and Education Foundation Educational Resources Committee	July 2020 – Present
Michigan State Kinesiology Graduate Student Organization (MSU KGSO)	August 2021 – Present
MSU KGSO Diversity, Equity, and Inclusion Committee Chair	August 2021 – Present
MSU KGSO Research Development Committee Member	August 2021 – Present
MSU KGSO Teaching Development Committee Member	August 2021 – Present
Rocky Mountain Athletic Trainers Association (RMATA) Core Values Working Group	Spring 2020 – Fall 2021
NATA Leadership Development Academy	Fall 2018 – Spring 2020
Southeast Athletic Trainer’s Association (SEATA) LGBTQ Advisory Committee	Fall 2018 – Fall 2019
Alpha Chi Honor Society	Spring 2014
International Dean’s List Society	Fall 2013 – Spring 2016