

Melissa Christine Kay

Current Address:

209 Fetzer Hall CB#8700
Chapel Hill, NC 27599

Phone: (919) 962-0409

Email: mkay@email.unc.edu

EDUCATION

DOCTOR OF PHILOSOPHY, Human Movement Science – August 2015-Present
University of North Carolina at Chapel Hill – School of Medicine, Department of Allied Health Sciences, Chapel Hill, NC

MASTER OF SCIENCE, Athletic Training – July 2013-May 2015
A.T. Still University – Arizona School of Health Sciences, Mesa, AZ
CAATE Accredited Post-Professional Athletic Training Program
GPA: 3.7

Thesis: “Athletic Trainers’ Perceptions of and Experiences with Academic Accommodations as part of the Concussion Management Protocol”

BACHELOR OF SCIENCE, Athletic Training – May 2013
Indiana University, Bloomington, IN
CAATE Accredited Professional Athletic Training Program
Minor: Health, Exercise Science
GPA: 3.6
Honors: Cum Laude

PROFESSIONAL RESEARCH POSITIONS

DOCTORAL RESEARCH ASSISTANT

The University of North Carolina at Chapel Hill, Chapel Hill, NC, June 2015-Present

- Primary research study responsibilities include:
 - NCAA-DOD Grand Alliance Advanced Research Core
 - NCAA-DOD Grand Alliance Longitudinal Clinical Study Core
 - NSCOS
 - NOCSAE
- Assist ongoing clinical programs within the Matthew Gfeller Center
- Assist with day-to-day activities of the Matthew Gfeller Center by upholding its core mission and contributing to funded and ongoing projects (other than those listed above).

GRADUATE RESEARCH ASSISTANT

A.T. Still University – Arizona School of Health Sciences, “Beliefs, Attitudes and Knowledge of Pediatric Athletes with Concussions (BAKPAC).” August 2013-Present

The overarching purpose of this project was to examine different healthcare providers’ experiences and familiarity with concussion management in the secondary school setting with the primary focus upon education.

Specific Goals:

- Utilize both a qualitative and survey approach to explore athletic trainers’ familiarity and experiences with concussion management and academic accommodations

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- Utilize both a qualitative and survey approach to explore team physicians' familiarity and experiences with concussion management and academic accommodations
- Utilize both a qualitative and survey approach to explore physician assistants' familiarity and experiences with concussion management and academic accommodations
- Utilize a qualitative approach to explore school nurses' familiarity and experiences with concussion management and academic accommodations

Responsibilities:

- Assist primary investigator with analyzing and cleaning data
- Create interview protocols for the qualitative approaches
- Conduct interviews with participants
- Help prepare manuscripts to be disseminated

PUBLICATIONS & RESEARCH

REFEREED JOURNAL PUBLICATIONS (9)

Kay MC, Register-Mihalik JK, Ford CB, Williams RM, Valovich McLeod TC. Concussion history as a predictor of parental attitudes and knowledge of concussion recognition and response. *Orthopaedic Journal of Sports Medicine*. [In Press].

Welch Bacon CE, Cohen GW, **Kay MC**, Tierney DK, Valovich McLeod TC. Athletic trainers' perceived challenges toward comprehensive concussion management in the secondary school setting. *International Journal of Athletic Therapy and Training*. [In Press].

Kerr ZY, **Kay MC**, Register-Mihalik JK, DeFreese JD, Marshall SW, Guskiewicz KM. Concussion non-disclosure during professional career among a cohort of former NFL athletes. *American Journal of Sports Medicine*. [In Press].

Welch Bacon CE, Erickson CD, **Kay MC**, Weber ML, Valovich McLeod TC. School nurses' perceptions and experiences with interprofessional concussion management team in the secondary school setting. *Journal of Interprofessional Care*. [In Press].

Register-Mihalik JK, **Kay MC**. The current state of sports concussion. *Neurologic Clinics*. 2017;35(3):387-402.

Kay MC, Welch Bacon CE, Valovich McLeod TC. Athletic Trainers' Role and Responsibilities Regarding Academic Adjustments for Concussed Student-Athletes in the Secondary School Setting. *Journal of Athletic Training*. [In Press]

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. The Epidemiology of Severe Injuries Sustained by NCAA Collegiate Student-Athletes during the 2009/10-2014/15 Academic Years. *Journal of Athletic Training*. 2017;52(2):117-128.

Kay MC, Welch CE, Valovich McLeod TC. Positive and Negative Factors that Influence Concussion Reporting Among Secondary School Athletes. *J Sport Rehabil*. 2015;24(2):210-213.

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Valovich McLeod TC, Weber ML, **Kay MC**. Emerging Trends in Concussion Assessment. *Training and Conditioning*. 2014;24(5).

REFEREED JOURNAL PUBLICATIONS IN REVIEW (4)

Welch Bacon CE, **Kay MC**, Weber ML, Tierney D, Valovich McLeod TC. School nurses' perceived challenges with concussion management procedures in the secondary school setting. *Journal of School Nursing*. In Review; #JSN-17-09-142.

Kay MC, Register-Mihalik JK. Sport participation and mood-related disorders: Cortisol is the missing link. *Journal of Sports Science*. In Review; #JSS17072509.

Kay MC, Valovich McLeod TC, Erickson CD, Wagner AJ, Welch Bacon CE. Athletic trainers' perceptions of academic adjustments procedures for concussed student-athletes in the secondary school setting. *Athletic Training and Sports Health Care*. In Review; #ATSHC-2017-059.

Hirschhorn R, Kerr ZY, Wasserman EB, **Kay MC**, Clifton D, Dompier TP, Yeargin S. Epidemiology of injuries requiring emergency transport among college and high school student-athletes. *Journal of Athletic Training*. In Review; #JAT0340-17.

OTHER PUBLICATIONS (2)

Kay MC, Weber ML, Valovich McLeod TC. Assessment, Management and Knowledge of Sport-Related Concussion. *NATAnews*. June 2014: 36-38.

Welch Bacon CE, Weber ML, **Kay MC**, Valovich McLeod TC. Assessing school nurses' experience with comprehensive concussion management: Using multimethodologies to collect meaningful data. *SAGE Research Methods Cases*. 2017.

PROFESSIONAL PRESENTATIONS AND ABSTRACTS

INTERNATIONAL (1)

Concussion Knowledge, Attitudes, and Perceived Level of Involvement by American Youth Sport Coaches in Concussion Management. *Presented at the International Consensus Conference on Concussion in Sport, Berlin, Germany, October, 2016*.

NATIONAL (14)

Kay MC, Welch CE, Weber ML, Mayfield RM, Parsons JT, Valovich McLeod TC. The Comparison of Athletic Trainers' and School Nurses' Familiarity and Perceptions of Academic Accommodations Following Sport-Related Concussion. *Presented at the 2014 NATA Clinical Symposium, Indianapolis, Indiana, June, 2014*.

Kay MC, Valovich McLeod TC, Erickson CD, Sleight AJ, Welch CE. Athletic Trainers' Perceptions of Their Role and Responsibilities Regarding Academic Accommodations as Part of the Concussion Management Process in the Secondary School Setting. *Presented at the 2015 NATA Clinical Symposium, St. Louis, MO, June, 2015*.

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Cohen GW, Welch CE, **Kay MC**, Tierney DK, Valovich McLeod TC. Athletic Trainers' Self-Perceived Satisfaction of Current Concussion Management Practices. *Presented at the 2015 NATA Clinical Symposium in St. Louis, MO.*

Erickson CD, Valovich McLeod TC, **Kay MC**, Sleight AJ, Welch CE. Athletic Trainers' Perceptions of the Academic Accommodations Procedures for Student-Athletes Following a Sport-Related Concussion in the Secondary School Setting. *Presented at the 2015 NATA Clinical Symposium in St. Louis, MO.*

Sleight AJ, Valovich McLeod TC, **Kay MC**, Erickson CD, Welch CE. Athletic Trainers' Perceived Challenges Toward the Implementation of Academic Accommodations for Student-Athletes Following a Sport-Related Concussion in the Secondary School Setting. *Presented at the 2015 NATA Clinical Symposium in St. Louis, MO.*

Tierney DK, Welch CE, **Kay MC**, Cohen GW, Valovich McLeod TC. Athletic Trainers' Perceived Challenges Toward Concussion Management in the Secondary School Setting. *Presented at the 2015 NATA Clinical Symposium in St. Louis, MO.*

Erickson CD, **Kay MC**, Weber ML, Valovich McLeod TC, Welch Bacon CE. School Nurses' Perceptions of the Academic Management Team for Student-Athletes Following a Sport-Related Concussion. *Presented at the 2016 NATA Clinical Symposium in Baltimore, MD.*

Shumaker LM, Valovich McLeod TC, **Kay MC**, McLeod IA, Weber ML, Hixson KM, Kennan G, Welch Bacon CE. Physician Assistants' Familiarity and Perceptions of Academic Adjustments For Adolescent Athletes Following Sport-Related Concussion. *Presented at the 2016 NATA Clinical Symposium in Baltimore, MD.*

Tierney DK, **Kay MC**, Weber ML, Valovich McLeod TC, Welch Bacon CE. School Nurses' Perceived Role in Communication and Collaboration as a Member of the Concussion Management Team at the Secondary School Level. *Presented at the 2016 NATA Clinical Symposium in Baltimore, MD.*

Welch Bacon CE, Weber ML, **Kay MC**, Williams RM, Valovich McLeod TC. A Comparison of Health Care Professionals' Perceptions and Familiarity of Academic Adjustments For Adolescents Following a Concussion. *Presented at the 2016 NATA Clinical Symposium in Baltimore, MD.*

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. Epidemiology of Severe Injuries within NCAA Sex-Comparable Sports between 2009/10-2014/15. *Presented at the 2016 NATA Clinical Symposium, Baltimore, Maryland, June, 2016.*

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. Epidemiology of Severe Injuries within NCAA Football, Wrestling, and Men's Ice Hockey, 2009/10-2014/15 academic years. *Presented at the 2016 American College of Sports Medicine Annual Meeting, Boston, Massachusetts, June, 2016.*

Kay MC, Grove DH, Page RE, DeFreese JD, Register-Mihalik JK. Athletic Trainers' Perceptions and Experiences Withholding Athletes from Participation. *Presented at the 2017 NATA Annual Clinical Symposium, Houston, Texas, June, 2017.*

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Kay MC, Register-Mihalik JK, Williams RM, Mihalik JP, Valovich McLeod TC. Influence of Parent and Child Concussion History on Parental Knowledge and Attitudes Regarding Concussion. *Presented at the 2017 American College of Sports Medicine Annual Meeting, Denver, Colorado, June, 2017.*

DISTRICT (1)

Athletic Trainers' Perceptions of Their Role and Responsibilities Regarding Academic Accommodations as Part of the Concussion Management Process in the Secondary School Setting. *Presented at the 2015 RMATA Annual Meeting, Mesa, Arizona, April, 2015.*

STATE (3)

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. Epidemiology of Severe Injuries within NCAA Football, Wrestling, and Men's Ice Hockey, 2009/10-2014/15 academic years. *Presented at the 2016 NCATA Annual Spring Meeting and Awards Luncheon, March, 2016.*

Kay MC, Grove DH, Page RE, DeFreese JD, Register-Mihalik JK. Athletic Trainers' Perceptions and Experiences Withholding Athletes from Participation. *Presented at the 2017 NCATA Annual Spring Meeting and Awards Luncheon, March, 2017.*

Kay MC, Register-Mihalik JK. Concussion Updates: Studies and Consensus Implications for Intervention and Recovery. *Presented at the 2017 Updates in Concussion Treatment Continuing Education Session, July, 2017.*

UNIVERSITY (4)

Kay MC, Welch CE, Weber ML, Mayfield RM, Parsons JT, Valovich McLeod TC. The Comparison of Athletic Trainers' and School Nurses' Familiarity and Perceptions of Academic Accommodations Following Sport-Related Concussion. *Presented at the Mesa-Interdisciplinary Research Committee Student Presentations, Mesa, Arizona, May, 2014.*

Kay MC, Valovich McLeod TC, Erickson CD, Sleight AJ, Welch CE. Athletic Trainers' Perceptions of Their Role and Responsibilities Regarding Academic Accommodations as Part of the Concussion Management Process in the Secondary School Setting. *Presented at the Mesa-Interdisciplinary Research Committee Student Presentations, Mesa, Arizona, May, 2015.*

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. The Epidemiology of Severe Injuries within NCAA Sex-Comparable Sports between 2009/10-2014/15. *Presented at the Human Movement Science Research Day, Chapel Hill, North Carolina, February, 2016.*

Kay MC, Register-Mihalik JK, Gray AD, Djoko A, Dompier TP, Kerr ZY. The Epidemiology of Severe Injuries within NCAA Sex-Comparable Sports between 2009/10-2014/15. *Presented at the Women in Science Symposium, Chapel Hill, North Carolina, April, 2016.*

GRANT FUNDING

GRANTS AWARDED

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Perceptions of Concussion Management Among Healthcare Professionals

Funding Agency: A.T. Still University Strategic Research Fund (SRF) Program

Role: Co-investigator, August 2014-September 2016

Status: Funded (\$21,102)

The purpose of this project is to gain insight on the perceptions of and experiences with concussion management and academic accommodations among various healthcare professionals that serve as the primary providers to student-athletes following sport-related concussion in the secondary school setting.

Athletic Trainers' Perceptions of and Experiences with Academic Accommodations as Part of the Concussion Management Protocol

Funding Agency: NATA Research and Education Foundation Master's Research Grant Program

Role: Principal Investigator, August 2014-September 2015

Status: Funded (\$1000) Cantu/Guskiewicz Research Endowment for Sport Concussion

The purpose of this study is to explore athletic trainers' familiarity with academic accommodations and their experiences with the incorporation of academic accommodations into concussion management plans for student-athletes following a sport-related concussion in the secondary school setting.

TEACHING EXPERIENCE

TEACHING RECORD – Full Instructor

Human Anatomy (EXSS 175)

Summer Session II 2016 (24 students)

Cadaver Anatomy Lab (EXSS 275L)

Fall 2016 (12 students)

Fundamentals of Athletic Training (EXSS 265)

Spring 2017 (15 students)

TEACHING ASSISTANT RECORD – Graduate Level

Anatomy (EXSS 732)

Fall 2015 (9 students)

TEACHING ASSISTANT RECORD – Undergraduate Level

Fundamentals of Athletic Training (EXSS 265)

Spring 2015 (17 students)

Human Anatomy (EXSS 175)

Spring 2015 (294 students)

Fall 2017 (290 students)

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COMMITTEE MEMBERSHIP

MASTERS THESIS COMMITTEES – MEMBER (2)

Dubas R. Comparison of SCAT-3 performance in different fatigue states. *August 2017* (anticipated).

Lee K. Epidemiology of cervical muscle strains in high school and collegiate male collision athletes. *May 2018* (anticipated).

UNDERGRADUATE HONOR'S THESIS COMMITTEES – MEMBER (1)

Grove D. Effect of concussion history and gender on athlete perceptions of the concussion battery. *May 2017*.

PROFESSIONAL SERVICE

RESEARCH SERVICE

Journal Peer Reviewer

Athletic Training and Sports Healthcare
International Journal of Athletic Training and Therapy
Journal of Athletic Training
Journal of Sport Rehabilitation

UNIVERSITY SERVICE

INTERDISCIPLINARY HEALTH AND OCCUPATIONAL PROFESSIONALS

University of North Carolina at Chapel Hill, Chapel Hill, NC, August 2013-August 2015

- President – 2017-Present
 - Coordination of all activities of the Association, serving as the official representative of the Association, calling and presiding over meetings and preparing agendas for all meetings

GRADUATE AND PROFESSIONAL STUDENT FEDERATION

University of North Carolina at Chapel Hill, Chapel Hill, NC, August 2015-Present

- Senator – 2015-2016
 - Being the voice for the Department of Exercise and Sport Science within the GPSF and vice versa.
- Special Projects Committee Member – 2015-2016
 - All of the members work to design, implement and host special events for graduate students around the University including: a University-wide research day and Graduate student orientation.
- Mentorship Committee Member – 2015-2017
 - Members work together to acknowledge and reward graduate and professional students who go above and beyond their required duties to mentor younger students.

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ARIZONA ORGANIZATION PRESIDENTS COMMITTEE

A.T. Still University – Arizona School of Health Sciences, Mesa, AZ, August 2014-August 2015

- Member – 2014-2015
 - All of the members serve as President of their respective association. Together, the Presidents meet to make decisions regarding the University as a whole. This is an interdisciplinary committee.

ATHLETIC TRAINING STUDENT ASSOCIATION

A.T. Still University – Arizona School of Health Sciences, Mesa, AZ, August 2013-August 2015

- President – 2014-2015
 - Coordination of all activities of the Association, serving as the official representative of the Association, calling and presiding over meetings and preparing agendas for all meetings
- Secretary – 2013-2014
 - Prepare and distribute notes from all meetings to the students and faculty
 - Assist the President with organization of events

SPORTS MEDICINE CLUB

A.T. Still University, Mesa, AZ, August 2013-Present

- Vice President – 2013-2014
 - Assist the President with event planning and step in as President when necessary

COMMUNITY SERVICE

MESA PARKS

Concussion Education. Mesa, AZ, August 2013-June 2015

AHOY TO SUMMER: ANCHORS AWEIGH TO HEALTH

Concussion Education. Flagstaff, AZ, May, 2014

PROFESSIONAL CLINICAL EXPERIENCE

ASSISTANT ATHLETIC TRAINER

Arizona Christian University, Phoenix, AZ, August 2013 – May 2015

- *Football, Men's Basketball, Spring Football, JV Baseball (2014-2015)*
- *Men's Basketball, Women's Basketball, Baseball, Softball, Men's Soccer, Women's Soccer, Volleyball, Football, Men's Tennis, Women's Tennis (2013-2014)*
 - Injury prevention, emergency care, injury management, injury treatment, rehabilitation/conditioning for athletes participating in this NAIA intercollegiate athletic program
 - Attendance at all assigned team practices and athletic contests, games, and scrimmages
 - Creation and implementation of a new concussion management protocol with emphasis on baseline testing and academic accommodations
 - Coordinate pre-participation examination paperwork and other insurance forms for a newly added football roster

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ADDITIONAL CLINICAL EXPERIENCE

NORTH CAROLINA FOOTBALL CLUB

Raleigh, NC, April 2017-Present

- Athletic trainer for youth-level soccer tournaments and practices

VARSITY CHEER ASSOCIATION

Orlando, FL, March 2017-Present

- Athletic trainer for national and international cheerleading competitions
- Athletic trainer for summer training camps

USA BASEBALL

Raleigh, NC, March 2017-Present

- Athletic trainer for local USA Baseball events

DATALYS YOUTH FOOTBALL SAFETY STUDY

Mesa, AZ, August 2013-November 2013

- Research Assistant collecting injury epidemiology data and providing basic athletic training services for youth football players

INDIANA ELITE BASKETBALL

Bloomington, IN, May 2012-March 2013

- First aid care for Amateur Athletic Union (AAU) basketball tournaments

INDIANA UNIVERSITY SUMMER CAMPS

Bloomington, IN, May 2012-July 2012

- Athletic trainer for Men's Basketball, Football, Baseball, Volleyball and Field Hockey camps

VOLUNTEER ATHLETIC TRAINING EXPERIENCE

SPECIAL OLYMPICS SUMMER GAMES

Raleigh, NC, June 2017

- Medical care and coverage for Special Olympic athletes

IRONMAN ARIZONA

Tempe, AZ, November 2013

- Medical tent triage at the finish line

INDIANA UNIVERSITY TRACK AND FIELD

Bloomington, IN, January 2011-May 2013

- Medical care and coverage for track and field meets

INDIANA UNIVERSITY CHEERLEADING TRY-OUTS

Bloomington, IN, January 2013

- Medical care and coverage for try-outs

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NATIONAL COLLEGIATE ATHLETIC ASSOCIATION TRACK AND FIELD REGIONAL MEET

Bloomington, IN, May 2012

- Medical care and coverage for track and field meet

PROFESSIONAL HONORS & AWARDS

Dr. Earlene Durrant Scholarship 2015 – Rocky Mountain Athletic Trainers' Association

Dan Libera Scholarship 2014 – Rocky Mountain Athletic Trainers' Association

John W. Schrader Educational Service Award

Dean's List – Fall 2011-Spring 2013

Indiana University Honors Program in Foreign Languages

UNIQUE SKILLS & EXPERIENCES

CNS Vital Signs PROGRAM EXPERIENCE

Concussion Management

GRASTON TECHNIQUE, LLC

M1-Basic Training Certification

COMPUTER PROFICIENT IN MICROSOFT OFFICE

Microsoft Word, Excel, Outlook, PowerPoint

SPORTS INJURY MONITORING SOFTWARE EXPERIENCE

Injury Tracking Software

ImPACT PROGRAM EXPERIENCE

Concussion Management

PROFESSIONAL DEVELOPMENT & CONTINUING EDUCATION

National Athletic Trainers' Association, Annual Meeting and Clinical Symposia. Houston, TX. 2017.

National Athletic Trainers' Association, Annual Meeting and Clinical Symposia. Baltimore, MD. 2016.

National Athletic Trainers' Association, Annual Meeting and Clinical Symposia. St. Louis, MO. 2015.

National Athletic Trainers' Association, Annual Meeting and Clinical Symposia. Indianapolis, IN. 2014.

American College of Sports Medicine, Annual Meeting. Denver, CO. 2017.

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American College of Sports Medicine, Annual Meeting. Boston, MA. 2016.

North Carolina Athletic Trainers' Association, Spring Meeting. Wrightsville Beach, NC. 2016.

Arizona Athletic Trainers' Association, Spring Meeting. Phoenix, AZ. 2014.

Indiana Athletic Trainers' Association, Winter Meeting. Indianapolis, IN. 2012.

Indiana Athletic Trainers' Association, Winter Meeting. Indianapolis, IN. 2011.

Indiana Athletic Trainers' Association, Winter Meeting. Indianapolis, IN. 2010.

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

Certified Athletic Trainer, #2000013592

National Athletic Trainers' Association Board of Certification, 2013-Present

National Provider Identifier, #1235565888

Licensed Athletic Trainer

State of North Carolina, #LAT-2847, 2015-Present

Licensed Athletic Trainer

State of Arizona, #1201, 2013-2015

CPR/AED for the Professional Rescuer

American Red Cross, 2010-Present

National Athletic Trainers' Association, 2010-Present

Mid Atlantic Athletic Trainers' Association, 2015-Present

North Carolina Athletic Trainers' Association, 2015-Present

Rocky Mountain Athletic Trainers' Association, 2013-2015

Arizona Athletic Trainers' Association, 2013-2015

Great Lakes Athletic Trainers' Association, 2010-2013

Indiana Athletic Trainers' Association, 2010-2013

REFERENCES

Available upon request

Johna K. Register-Mihalik, PhD, LAT, ATC
Assistant Professor, Exercise and Sport Science

Melissa C. Kay, MS, LAT, ATC

University of North Carolina at Chapel Hill
125 Fetzer Hall, Campux Box #8700
Chapel Hill, NC 27599
(919) 962-2702
johnakay@email.unc.edu

Tamara C. Valovich McLeod, PhD, ATC, FNATA
Professor, Athletic Training Program
Director, Interdisciplinary Research Laboratory
Director, Athletic Training Practice-Based Research Network
Department of Interdisciplinary Health Sciences
A.T. Still University
5850 E. Still Circle
Mesa, AZ 85206
(480) 219 – 6035
tmcleod@atsu.edu

Cailee E. Welch, PhD, ATC
Assistant Professor, Athletic Training Program
Clinical Practice Site Coordinator, Athletic Training Practice-Based Research Network (AT-PBRN)
A.T. Still University
5850 E. Still Circle
Mesa, AZ 85206
(480) 219 – 6178
cwelch@atsu.edu