

Cory L. Butts, Ph.D.

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EDUCATION:

Ph.D., Kinesiology with Exercise Science Emphasis **August 2018**

Graduate Certificate, Educational Statistics & Research Methods

University of Arkansas; Fayetteville, Arkansas

Mentor: Brendon P. McDermott, Ph.D.

Dissertation Title: Dehydration, Muscle Damage, and Exercise in the Heat: Impacts on Renal Stress, Thermoregulation, and Muscular Damage Recovery

M.S., Exercise Physiology

May 2013

University of Texas at Arlington; Arlington, Texas

Mentors: David M. Keller, Ph.D., Paul J. McDonough, Ph.D.

B.S., Exercise Science,

May 2011

Minor in Leadership Studies

Colorado State University – Pueblo; Pueblo, Colorado

ACADEMIC APPOINTMENTS:

- Assistant Professor, Exercise & Sport Science
(*Weber State University; Ogden, UT*) 2018-Present
 - Responsibilities include:
 - Teaching Exercise Physiology Lectures, Laboratories, & Measurement and Statistics in Exercise Science
 - Perform service related to department and university goals and mission.
 - Conduct research to enhance learning opportunities for undergraduate students.
 - Mentor and advise undergraduate students in Exercise and Sports Science Program.

- Graduate Research and Teaching Assistant
(*University of Arkansas; Fayetteville, AR*) 2014-2018
 - Responsibilities include:
 - Leading and assisting various research protocols in the Exercise Science Research Center.

- Providing guidance to undergraduate and graduate students completing research, such as methodological, technical, and statistical support.
 - Teaching coursework in the undergraduate Kinesiology program including lecture, laboratory, and activity classes.
- Enhanced Graduate Teaching & Research Assistant
(*University of Texas at Arlington; Arlington, TX*) 2011-2013
 - Responsibilities included:
 - Leading and assisting with research in Cardiovascular and Pulmonary Research Laboratory.
 - Teaching laboratory courses in the undergraduate Kinesiology program.
 - Serving as a teaching assistant and tutoring assistant in the Physiology of Exercise course.

TEACHING EXPERIENCE:

Weber State University: Instructor of Record Courses

Term	Course Title	Course Number	Student Enrollment	Student Rating
Fall 2018	Exercise Physiology	ESS 3510	48	N/A
Fall 2018	Measurement & Statistics in Exercise Science	ESS 3600	22	N/A

University of Arkansas: Instructor of Record Courses

Term	Course Title	Course Number	Student Enrollment	Student Rating
Spring 2018	Performance & Drugs	EXSC 4773	95	4.76 / 5.0
Spring 2018	Beginning Jogging	PEAC 1221	17 (Section 1) 21 (Section 2) 20 (Section 3)	4.36 / 5.0 4.57 / 5.0 4.77 / 5.0
Spring 2018	Fitness Walking	PEAC 1391	20 (Section 1) 21 (Section 2) 18 (Section 3)	4.88 / 5.0 4.39 / 5.0 4.55 / 5.0
Fall 2017	Performance & Drugs	EXSC 4773	62	4.08 / 5.0
Fall 2017	Laboratory Techniques	EXSC 3553	21	4.68 / 5.0
Spring 2017	Laboratory Techniques	EXSC 3553	20	4.84 / 5.0
Fall 2016	Laboratory Techniques	EXSC 3553	20	4.82 / 5.0

Spring 2016	Laboratory Techniques	EXSC 3553	18	4.68 / 5.0
Fall 2015	Fitness Concepts	PEAC 1621	97 (8 wk 1) 97 (8 wk 2)	4.52 / 5.0 4.54 / 5.0
Spring 2015	Fitness Concepts	PEAC 1621	38 (8 wk 1) 29 (8 wk 2)	4.88 / 5.0 4.53 / 5.0
Spring 2015	Fitness Walking	PEAC 1391	27	4.88 / 5.0
Fall 2014	Fitness Concepts	PEAC 1621	30 (8 wk 1) 32 (8 wk 2) 32 (8 wk 2)	4.52 / 5.0 4.68 / 5.0 4.40 / 5.0

University of Texas at Arlington: Instructor of Record Courses

Term	Course Title	Course Number	Student Enrollment	Student Rating
Spring 2013	Physiology of Exercise Laboratory	KINE 3315L	20	N/A
Spring 2013	Fitness Assessment and Programming Laboratory	KINE 4315L	18	N/A
Fall 2012	Physiology of Exercise Laboratory	KINE 3315L	18	N/A
Fall 2012	Fitness Assessment and Programming Laboratory	KINE 4315L	18	N/A
Spring 2012	Physiology of Exercise Laboratory	KINE 3315L	Section 1 -10 Section 2 -12	N/A
Fall 2011	Introduction to Exercise Science Laboratory	KINE 1400L	Section 1 -20 Section 2 -20 Section 3 -20 Section 4 -22	N/A

Additional Teaching Experience:

- Guest Lecturer: University of Arkansas
 - EXSC 5513: Physiology of Exercise I
 - Instructor of Record: Dr. Nicholas P. Greene
 - Topic: Heat Stress & Thermoregulation
 - Fall 2015 & Fall 2016
- Teaching Assistant: University of Texas at Arlington
 - KINE 3315: Physiology of Exercise
 - Spring 2013, Fall 2012, Spring 2012

- Responsibilities: Lecturing on select content, grading exams, quizzes, managing Blackboard content, preparing clicker quizzes
- Tutoring Coordinator: University of Texas at Arlington
 - KINE 3315: Physiology of Exercise
 - Spring 2013, Fall 2012, Spring 2012
 - Responsibilities: Provided tutoring hours for course material review, hosted exam reviews

PUBLICATIONS:

➤ *Peer-reviewed journal publications*

18. Caldwell AR, Burchfield JM, Moyen NE, Tucker MA, **Butts CL**, Elbin RJ, Ganio MS. Obesity, But Not Hypohydration, Mediates Changes in Mental Task Load During Passive Heating in Females. *PeerJ*, 2018 E PUB. DOI 10.7717/peerj.5394
17. McDermott BP, Smith CR, **Butts CL**, Caldwell AR, Lee DE, Lee EC, Vingren JL, Munox CX, Perry RA Jr, Kunces LJ, Williamson KH, Ganio MS, Armstrong LA. Renal Stress and Kidney Injury Biomarkers in Response to Endurance Cycling in the Heat With and Without Ibuprofen. *J Sci Med Sport*. 21(12): 1180-1184, 2018.
16. Tucker MA, Caldwell AR, **Butts CL**, Robinson FB, Kavouras SA, McDermott BP, Washington TA, Turner RC, Ganio MS. Postsynaptic Cutaneous Vasodilation and Sweating: Influence of Adiposity and Hydration Status. *Eur J Appl Physiol*. 118(8):1703-1713, 2018.
15. **Butts CL**, Adams JD, Spisla DL, Caldwell AR, Smith CR, Ganio MS, McDermott BP. Effectiveness of Ice-Sheet Cooling Following Exertional Hyperthermia. *Mil Med*. 182(9), e1951-e1957, 2017.
14. **Butts CL**, Torretta ML, Smith CR, Petway AJ, McDermott BP. Effects of a Phase Change Cooling Garment During Exercise in the Heat. *Eur J Sport Sci*. 17(8), 1065-1073, 2017.
13. Caldwell AR, Robinson FB, Tucker MA, Arcement CH, **Butts CL**, McDermott BP, Ganio MS. Effect of Passive Heat Stress and Exercise in the Heat on Arterial Stiffness. *Eur J Appl Physiol*. 117(8), 1679-1687, 2017.
12. Smith CR, **Butts CL**, Adams JD, Tucker MA, Moyen NE, Ganio MS, McDermott BP. Effect of a Cooling Kit on Physiology and Performance Following Exercise in the Heat. *J Sport Rehabil*. 27(5):413-418, 2018.
11. Paulsen KM, **Butts CL**, McDermott BP. Observation of Women Soccer Players' Physiology During a Single Season. *J Strength Cond Res*. 32(6):1702-1707, 2018.
10. Tucker MA, **Butts CL**, Satterfield AZ, Six A, Johnson EC, Ganio MS. Spot Sample Urine Specific Gravity Does Not Accurately Represent Small Decreases in Plasma Volume in Resting Healthy Males. *J Am College Nutr*. 37(1), 17-23, 2018.

9. Yates BA, Ellis LA, **Butts CL**, McDermott BP, Williamson KH, Armstrong LE. Factors Associated with Pre-Event Hydration Status and Drinking Behavior of Middle-Aged Cyclists. *J Nutr Health Aging* 22(3), 335-340., 2018.
8. **Butts CL**, Smith CR, Ganio MS, McDermott BP. Physiological and Perceptual Effects of a Cooling Garment During Simulated Industrial Work in the Heat. *Applied Ergonomics*. 59(A), 442-448, 2017.
7. Tucker MA, Caldwell AR, **Butts CL**, Robinson FB, Reynebeau HC, Kavouras SA, McDermott BP, Washington TA, Turner RC, Ganio MS. Effect of Hypohydration on Thermoregulatory Responses in Males with Low and High Body Fat Exercising in the Heat. *J Appl Physiol*. 122(1), 142-152, 2017.
6. Krnjajic D, Allen DR, **Butts CL**, Keller DM. Carotid Baroreflex Control of Heart Rate is Enhanced During Whole-Body Heat Stress. *Am J Physiol Regul Integr Comp Physiol*. 311(4);R735-R741, 2016.
5. Caldwell AR, Tucker MA, **Butts CL**, McDermott BP, Vingren JL, Kunces LJ, Lee EC, Munoz CX, Williamson K, Armstrong LE, Ganio MS. Effect of Caffeine on Perceived Soreness and Functionality Following an Endurance Cycling Event. *J Strength Cond Res*. 31(3), 638-643, 2017.
4. Luhring KE, **Butts CL**, Smith CR, Bonacci JA, Ylanan R, Ganio MS, McDermott BP. Cooling Effectiveness of a Modified Cold-Water Immersion Method After Exercise-Induced Hyperthermia. *J Athl Train*. 51(11), 946-951, 2016.
3. Moyen NE, Burchfield JM, **Butts CL**, Glenn JM, Tucker MA, Treece K, Smith AJ, McDermott BP, Ganio MS. Effects of Obesity and Mild Hypohydration on Local Sweating and Cutaneous Vascular Responses During Passive Heat Stress in Females. *Appl Physiol Nutr Metabol*. 41(8), 879-887, 2016.
2. **Butts CL**, Luhring KE, Smith CR, Tucker MA, Moyen NE, Ganio MS, McDermott BP. Effects of Mild Hypohydration on Cooling During Cold Water Immersion Following Exertional Hyperthermia. *Eur J Appl Physiol*. 116(4), 687-695, 2016.
1. **Butts CL**, McDermott BP, Buening BJ, Bonacci JA, Ganio MS, Adams JD, Tucker MA, Kavouras SA. Physiological and Perceptual Responses to Cold Shower Cooling Following Exercise Induced Hyperthermia. *J Athl Train*. 51(3), 252-257, 2016.

➤ ***In Review***

1. **Butts CL**, Caldwell AR, Perry RA Jr., Heath KM, Adams JD, Ganio MS, Smoot MK, McDermott BP. Hydration and Renal Responses During Pre-Season High School American Football. (2017) (In Prep).

➤ ***Published abstracts***

27. **Butts CL**, Caldwell AR, Mohler SA, Ganio MS, Greene NP, Kavouras SA, McDermott BP. Combined Effects of Hypohydration, Muscle Damage, and Exertional Hyperthermia on Biomarkers of Acute Kidney Injury. *International Journal of Exercise Science: Conference Proceedings*: 11(5), 32.
26. Mohler SA, **Butts CL**, Sebghati ZJ, Stephenson-Brown KL, Elbin RJ. Determining the Appropriate Timing of Administration of Computerized Neurocognitive Testing Following Maximal Exertion - Preliminary Analysis. *International Journal of Exercise Science: Conference Proceedings*: 11(5), 24.
25. **Butts CL**, Caldwell AR, Perry RA Jr., Heath KM, Adams JD, Ganio MS, Jansen LT, Hyun-Gyu S, Vandermark LW, Smoot MK, McDermott BP. Hydration and Renal Responses During Pre-Season High School American Football. *Med Sci Sports Exerc.* 49(5S), 662, 2017.
24. Caldwell AR, Robinson FB, Tucker MA, Arcement CH, **Butts CL**, McDermott BP, Ganio MS. Independent and Combined Effects of Heat Stress and Exercise on Arterial Stiffness. *Med Sci Sports Exerc.* 49(5S), 63, 2017.
23. **Butts CL**, Caldwell AR, Heath KM, Adams JD, Ganio MS Jansen LT, Suh HG, Vandermark LW, McDermott BP. Markers of Hydration During Pre-Season High School American Football. *International Journal of Exercise Science: Conference Proceedings*: 11(4), 10.
22. **Butts CL**, Smith CR, Ganio MS, McDermott BP. Physiological and Perceptual Effects of a Cooling Garment During Simulated Industrial Work in the Heat. *Med Sci Sports Exerc.* 48(5 Suppl 1), 564, 2016.
21. Smith CR, **Butts CL**, Caldwell AC, Lee EC, Munoz CX, Tucker MA, Vingren JL, Williamson KH, Armstrong LA, Ganio MS, McDermott BP. Renal Responses to Endurance Cycling in the Heat. *Med Sci Sports Exerc.* 48(5 Suppl 1), 616, 2016.
20. Tucker MA, **Butts CL**, Moyen NE, Johnson EC, Adams JD, Satterfield AZ, Six A, Ganio MS. Effect of Fluid Intake on Changing Blood Volume in Healthy Males. *Med Sci Sports Exerc.* 48(5 Suppl 1), 745, 2016.
19. Caldwell A, Tucker MA, **Butts CL**, McDermott BP, Vingren JL, Kunces L, Lee EC, Munoz CX, Williamson K, Armstrong LE, Ganio MS. Effect of Caffeine on Recovery from an Endurance Cycling Event. *Med Sci Sports Exerc.* 48(5 Suppl 1), 64, 2016
18. **Butts CL**, McDermott BP, Smith CR. Physiological Effects of a Cooling Garment During Industrial-Type Work in The Heat. *International Journal of Exercise Science: Conference Proceedings*: 11 (3), 67. (2015)
17. Tucker MA, **Butts CL**, Moyen NE, Johnson EC, Adams JD, Satterfield AZ, Six A, Ganio MS. Effect of Fluid Intake on Changing Blood Volume in Healthy Males. *International Journal of Exercise Science: Conference Proceedings.* 11 (3), 69. (2015)
16. Smith CR, **Butts CL**, McDermott BP. Effects of A Phase Change Cooling Device on Perceptual Measures and Work Productivity While Working in the Heat. *International Journal of Exercise Science: Conference Proceedings.* 11 (3),62. (2015)

15. Caldwell A, Tucker M, **Butts C**, McDermott B, Vingren J, Kunces L, Lee E, Munoz C, Williamson K, Armstrong L, Ganio MS. Effect of Caffeine on Recovery from an Endurance Cycling Event. *International Journal of Exercise Science: Conference Proceedings*. 11 (3), 39. (2015)
14. Lühring KE, **Butts CL**, Smith CR, Bonacci JA, Ylanan R, McDermott BP. Cooling Effectiveness of Modified Cold-Water Immersion Method Following Exercise Induced Hyperthermia. *Journal of Athletic Training: Supplement*. 50 (6), 59-60. (2015)
13. **Butts CL**, Lühring KE, Smith CR, Burchfield JM, Moyen NE, Tucker MA, Bonacci JA, Ganio MS, McDermott BP. Effects of Mild Hypohydration on Cooling During Cold Water Immersion Following Exertional Hyperthermia. ACSM, 2015
12. Smith CR, **Butts CL**, Adams JD, Bonacci JA, Ganio MS, Moyen NE, Tucker MA, McDermott BP. Effect of a Cooling Vest on Perceptual, Physiological, and Performance Measures Following Exercise in the Heat. ACSM, 2015
11. Tucker MA, Moyen NE, Burchfield JM, Treece K, **Butts CL**, McDermott BP, Kavouras SA, Ganio MS. Effect of Passive Heat Stress and Hypohydration on Arterial Compliance in Females. ACSM 2015
10. Burchfield JM, Elbin RJ, McDermott BP, Moyen NE, **Butts CL**, Treece K, Tucker MA, Ganio MS. Effects of Mild Dehydration and Hyperthermia on Cognition and Mental Task Load in Females. ACSM, 2015
9. Moyen NE, Burchfield JM, **Butts CL**, Glenn JM, Tucker MA, Treece K, McDermott BP, Ganio MS. Effects of Mild Dehydration and Passive Heat-stress on Sudomotor Function in Obese and Non-Obese Females. ACSM, 2015
8. **Butts CL**, McDermott BP, Ridings CB, Demartini, EM, Grant J, Moyen NE, Burchfield JM, Ganio MS, Kavouras SA. Effects of Breathing Cool Air During Exercise in the Heat on Thermoregulation, Perception and Cycling Performance. *International Journal of Exercise Science: Conference Proceedings*. 11 (2), 7. (2014)
7. Smith CR, **Butts CL**, Adams JD, Bonacci JA, Ganio MS, Moyen NE, Tucker MA, McDermott BP. Effect of a Cooling Vest on Perceptual, Physiological, and Performance Measures Following Exercise in the Heat. *International Journal of Exercise Science: Conference Proceedings*. 11 (2), 55. (2014)
6. Burchfield JM, Ganio MS, McDermott BP, Moyen NE, **Butts CL**, Treece K, Tucker MA. Additive Effects of Mild Dehydration and Hyperthermia on Mood in Females. *International Journal of Exercise Science: Conference Proceedings*. 11 (2), 6. (2014)
5. **Butts CL**, Adamus H, Keller DM, McDonough P. The Effects of Creatine Loading on Oxygen Uptake Kinetics During Heavy Exercise. FASEB, 2013
4. Allen DR, **Butts CL**, Krnjajic D, Keller DM, McDonough P. The Effect of Type II Diabetes Mellitus on Oxygen Uptake Kinetics During Heavy

- Exercise. *International Journal of Exercise Science: Conference Proceedings*. 2 (5), 28. (2013)
3. Krnjajic D, **Butts CL**, Samels MR, Warren SW, Benson TJ, Keller DM. Carotid Baroreflex Control of Heart Rate is Enhanced During Whole-Body Heat Stress. *International Journal of Exercise Science: Conference Proceedings*. 2 (5), 50. (2013)
 2. Keller DM, Samels MR, **Butts CL**. Comparison of Internal Temperature Responses to Prolonged Arm and Leg Ergometer Exercise. FASEB, 2012
 1. **Butts CL**, McDonough P, Keller DM, Samels MR, Krnjajic D. The Impact of Physiologic Reductions in Blood Pressure Upon Oxygen Uptake During Moderate Intensity Leg Cycling. *International Journal of Exercise Science: Conference Proceedings*. 2 (4), 64. (2012)

➤ **Non-peer reviewed journal publications**

1. McDermott BP, **Butts CL**. Feeling the Heat: Athletic Trainers Can Keep Heat-Related Illnesses at Bay with These Easy-To-Follow Tips and Guidelines. *Training and Conditioning*. July/August, 16(5), 56-57, 2016.

GRANT & CONTRACT HISTORY:

Current Research Grants

Weber State University Hemingway Faculty Vitality Grant
Comparison of Acute Heat Exposure and Exercise on Measures of Cardiovascular Health.

Fall 2018 (\$2,869.97)

Role: Principle Investigator

Weber State University Moyes College of Education ASTEC Grant
Equipment for Heat Therapy Research

Fall 2018 (\$6,240.60)

Role: Principle Investigator

Past Research Grants

Central States ACSM Doctoral Student Research Award –
Effects of Hypohydration and Muscle Damage on Acute Kidney Injury Biomarkers Following Exercise in the Heat.

2016-2017 (\$500)

Role: Lead-Doctoral Student

AMSSM-ACSM Clinical Research Grant –

The Relationship Between Muscle Damage and Acute Kidney Injury Biomarkers in American Football Players During Preseason Workouts.

PI: Dr. Kyle Smoot, CO. Investigators: Dr. Brendon McDermott, Dr.

Rebecca Hegeman, **Mr. Cory Butts**.

2015-2017 (~\$20,000)

Role: Lead-Doctoral Student

American College of Sports Medicine Foundation Grant - Effects of Hypohydration and Muscle Damage on Biomarkers of Acute Kidney Injury Following Exertional Hyperthermia. (2017) (Budget: \$4,979, *Not Funded*)

Travel Grants

University of Arkansas Graduate School and International Education
Doctoral Student Travel Grant. (2016-2017) (\$1,110)

- University funded travel costs to present at national academic conference.

University of Arkansas Graduate School and International Education
Doctoral Student Travel Grant. (2014-2015) (\$1,110)

- University funded travel costs to present at national academic conference.

PRESENTATIONS:

Oral presentation at the American Medical Athletic Association Annual Sports Medicine Symposium: Washington DC, 2016

Muscle Damage and Renal Function in Athletes with Physiological and Environmental Stress

Oral presentation at the South Padre Athletic Training Seminar: South Padre Island, TX, 2016

An Update on Hydration Recommendations for the Physically Active (BOC Approved Evidenced Based Practice Lecture)

Oral presentation at the Razorback Winter Sports Medicine Symposium: Fayetteville, AR, 2015

Effects of Hypohydration on Cooling During Cold Water Immersion after Exercise-Induced Hyperthermia

CURRENT PROJECTS:

- Comparison of Acute Heat Exposure and Exercise on Measures of Cardiovascular Health.
- Comparing Digital and Manual Refractometers to Assess Urine Specific Gravity.
- Relationship Between Hydration and NSAID use on Gut and Kidney Biomarkers

LABORATORY EQUIPMENT EXPERIENCE:

- ***Blood & Urine Analysis:***
 - Intravenous catheters (8 years), Venipuncture (8 years), Osmolality (freezing point depression), Refractometer for urine specific gravity, Urine color, Damon micro-capillary reader (hematocrit), HemoCue (hemoglobin) analyzer, Blood volume (carbon monoxide

rebreathing), EasyElectrolytes ion selective electrode analyzer, Enzyme linked immunosorbent assays, Colorimetric assays

- **Physiological Techniques & Assessment:**
 - Perfusion suits (whole body heating), Rectal thermometry (Physitemp), Gastrointestinal temperature (HQ ingestible thermistor), Skin thermometry (iButtons & Physitemp), Laser Doppler flowmetry, Local sweat rate capsule, 3M sweat patch, Sweat gland activation, Whole body sweat rate, Microdialysis, Linear array Doppler ultrasound (GE Logiq E), ParvoMedics metabolic system, Tango+ automated blood pressure, Polar heart rate monitor, Neck Pressure/Neck Suction hardware, Finapres finometer, Lower body negative pressure, Quinton Q-Stress, Cold water immersion, Can-Trol environmental chamber, Lode cycle ergometer, Velotron cycle ergometer, Monark cycle ergometer, DXA, Biodex isokinetic dynamometer, Hydrostatic weighing

- **Computer Software:**
 - AcqKnowledge, LabChart 7, CardioCard, BioPack, PowerLab SigmaPlot, SPSS, SAS, G*Power, Microsoft Word, Excel, PowerPoint

HONORS and AWARDS:

- Finalist Young Research Award, Health Annual Scientific Conference, Evian, France. (2018)
- Recipient of the Central States Chapter of the American College of Sports Medicine Doctoral Student Research Award. (1st place, 2017)
- Recipient of the University of Texas at Arlington, Department of Kinesiology, Research Appreciation Day Award (1st place, 2013)
- Recipient of the Texas Chapter of the American College of Sports Medicine Poster Presentation Award – Master’s category (1st place, 2012)
- Graduated Magna Cum Laude (*Colorado State University – Pueblo*) 2011
- Recipient of President’s Leadership Program Scholarship (*Colorado State University – Pueblo*) 2006 – 2010

ORGANIZATIONS:

- Member of American Physiology Society since 2012
- Member of American College of Sports Medicine since 2012
- Member of the Central States Chapter of The American College of Sports Medicine since 2014
- Member of the Texas Chapter of The American College of Sports Medicine 2012-2013
- Member of the President’s Leadership Program (*Colorado State University – Pueblo*) 2006 – 2011
- Member of Phi Kappa Phi Honor Society 2010-2012

- Member of El Pomar Scholar Program (*Colorado State University – Pueblo*) 2007 – 2008
- Member of Student Ambassador Program (*Colorado State University – Pueblo*) 2007 – 2010

CONTINUING EDUCATION:

- 2017 American College of Sports Medicine Annual Meeting, Denver, CO
- 2017 Experimental Biology Annual Meeting, Chicago, IL
- 2016 Central States Chapter of the American College of Sports Medicine Annual Meeting, Fayetteville, AR
- 2016 American Medical Athletic Association Annual Sports Medicine Symposium, Washington DC
- 2016 American College of Sports Medicine Annual Meeting, Boston, MA
- 2015 Central States Chapter of the American College of Sports Medicine Annual Meeting, Warrensburg, MO
- 2015 American College of Sports Medicine Annual Meeting, San Diego, CA
- 2014 Central States Chapter of the American College of Sports Medicine Annual Meeting, Overland Park, KS
- 2013 Experimental Biology Annual Meeting, Boston MA
- 2012 Texas Chapter of the American College of Sports Medicine Annual Meeting, Austin, TX

SERVICE:

Journal Reviewer

Applied Physiology, Nutrition, and Metabolism
 Journal of Athletic Training
 Journal of Sport Rehabilitation
 Journal of Sports Sciences

MENTORSHIP:

- **Weber State University**
 - ***Master's Students***
 - Noah Erb
 - **Undergraduate Students**
 - Chandler Rudolph
 - Anthony Ludwig
- **University of Arkansas**
 - ***Master's Students***
 - Samantha Mohler
 - Abbey Hess
 - Alex Forehan
 - Eric Schwartz
 - Damon Reel

- Christopher Reed
- Chase Ladd
- Cody Smith
- Madeline Torretta
- Katherine Luhring
- ***Undergraduate Students***
 - Kathleen Heath
 - Kelsey Ellis-Lepard

PROFESSIONAL EXPERIENCE:

Sweat Testing Consultant

Gatorade Sports Science Institute

July 2016 – April 2018

- Conduct sweat rate testing on variety of athletes at different locations across United States
- Analyze sweat to assess electrolyte concentrations

Health Care Specialist / Combat Medic

Army National Guard

Aug 2008 – Aug 2014

- Trained and supervised junior enlisted soldiers in the medical platoon
- Provide general medical treatment to 100+ soldiers during drills

Admissions Counselor

Colorado State University-Pueblo, Pueblo, CO

Aug 2013 – June 2014

- Recruited prospective students in Colorado, New Mexico, & New England.
- Developed relationships with community colleges and high school counselors to coordinate visits.
- Presented information about the application and financial aid processes.