TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Kevin C. Miller, PhD, AT, ATC Title: Professor

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
BS	2003	UW-Green Bay	Human Biology	n/a
MS	2005	UW-La Crosse	Human Performance and Exercise Science	The effects of ankle taping and spatting on active ankle range of motion before, during, and after exercise.
PhD	2009	BYU	Exercise Science	Plasma and EMG responses during an electrically-induced muscle cramp and following pickle juice and water ingestion.

C. University Experience

1. Professor 2022-Present
   Texas State University, San Marcos, TX
2. Adjunct Research Fellow 2021-2022
   Rocky Mountain University of Health Professions, Provo, UT
3. Adjunct Professor 2020-2022
   University of Nevada, Las Vegas, NV
4. Professor 2013-2022
   Central Michigan University: Mt. Pleasant MI
5. Adjunct Professor 2011-2013
   University of New England: Armidale, Australia
6. Assistant Professor 2009-2013
   North Dakota State University: Fargo, ND
7. Researcher/Lecturer 2005-2009
   BYU: Provo, UT

D. Relevant Professional Experience

1. Falmouth Road Race Medical Team 2019, 2022
2. Athletic Trainer 2005-2007
   Utah High School Activities Association: Provo, UT
3. Face Mask Removal Instructor 2005
   Utah EMT Training: Park City, UT

4. Head Athletic Trainer 2005
   Jr. Eagles Gymnastics Camps: La Crosse, WI
5. Medical Coordinator 2005
   National Youth Sports Program: La Crosse, WI
6. Graduate Assistant Athletic Trainer 2004-2005
   UW-La Crosse: La Crosse, WI
7. Intern Athletic Trainer 2004
   Green Bay Blizzard Football: Green Bay, WI

E. Other Professional Credentials (licensure, certification, etc.)

Certifications

1. Certified Strength and Conditioning Specialist 2005-2011
   NSCA
2. Certified Athletic Trainer 2004-Present
   BOC
3. First Aid/CPR/AED for the Pro. Rescuer 2001-Present
   American Red Cross

Licenses

1. National Provider Identification (NPI, #1447617782) 2016-Present
2. Licensed Athletic Trainer, Michigan (#2601001163) 2013-Present
3. Licensed Athletic Trainer, North Dakota (#388-10) 2010-2014
4. Licensed Athletic Trainer, Utah (#6317571-4810) 2006-2009

5. Licensed Athletic Trainer, Wisconsin (#640-39) 2004-2005

II. TEACHING

A. Teaching Honors and Awards:

Awards

1. Outstanding Educator Award 2022
   Great Lakes Athletic Trainers Association (GLATA)
2. Professional Development Excellence Award 2022
   National Athletic Trainers Association (NATA)
3. Lebedeff Endowed Professorship Development Award for Excellence in Research and Teaching 2011
   North Dakota State University

Honors

1. Nominated, Faculty Excellence Award 2022
   Central Michigan University College of Health Professions
2. Nominated, President's Award 2018
   Central Michigan University

B. Courses Taught:

Texas State University

1. AT3311: Clinical Assessment 1
2. AT5301: Musculoskeletal Assessment of the UE

CMU

1. HSC 791: Independent Study
2. ATR 315: Injury Prevention I (Taping & Bracing)
3. ATR 382: Athletic Training Assessment II (UE evaluation)
4. ATR 397: Athletic Training Independent Study
5. ATR 415: Injury Prevention II (Strength & Conditioning)
6. ATR 478WI: Research for the Health Professions
7. ATR 482: Internship in Athletic Training

NDSU

1. HNES 722: Readings in Sports Medicine
2. HNES 723: Advanced Sports Medicine Techniques
3. HNES 777: Current Research Practice in Athletic Training
4. HNES 782: Orthopedic Assessment II
5. HNES 790: Athletic Training Evidence Based Research & Practice
6. HNES 790: Publishing in Allied Health

BYU

1. EXSC 320: Basic Athletic Training
2. EXSC 321: Basic Athletic Training Taping Laboratory
3. EXSC 394: Athletic Training Clinical Education I
4. EXSC 395: Athletic Training Clinical Education II
5. EXSC 400L: Functional Anatomy/Cadaver Laboratory
6. EXSC 415: Therapeutic Modalities (Guest Lecturer)
7. EXSC 416: Lower Extremity Evaluation (Guest Lecturer)

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Chair, Masters or Doctoral Student Committees

1.	Carley Parkison (PhD)	Athletic Trainers perceptions about EAMC. Rocky Mountain University of Health Professions. 2021-2022.
2.	Courtney Zickmund (MS)	Validity of sweat rates following various exercise durations. CMU. 2020-2021.
3.	Fallon Koenig (MS)	Contribution of body anthropomorphics to rectal temperature cooling rates in women with exertional hyperthermia. CMU. 2018-2020.
4.	Michael Szymanski (MS)	Sweat and cramp characteristics in individuals with varying susceptibilities to exercise associated muscle cramps. CMU. 2017-2019.
5.	Libby Bradley (MS)	Precooling's effect on American football skills. CMU. 2017-2019.
6.	Jeremy Taylor (MS)	Effect of whole body pre-cooling on rectal temperature cooling rates in individuals wearing American football uniforms. CMU. 2017-2018.
7.	James Harsen (DPT)	Stretching's effect on cramp threshold frequency. CMU 2016.
8.	Tyler Truxton (MS)	(1) Temperate water immersion as a treatment for hyperthermic humans wearing American football uniforms. (2) Can temperate-water immersion effectively reduce rectal temperature in exertional heat stroke situations?: A critically-appraised topic. CMU 2015-2017.

9. Michael McKenney (MS)	Plasma and electrolyte changes in humans following ingestion of multiple boluses of pickle juice. NDSU. 2013.
10. Kyle Braulick (MS)	The effect of significant and serious hypohydration on cramp threshold frequency. NDSU. 2012.
11. Scott Allen (MS)	*Ad libitum* fluid intake and plasma responses following pickle juice, hypertonic saline and deionized water ingestion. NDSU. 2012.
12. Jarett Peikert (MS)	The effect of pre-exercise ingestion of pickle juice, hypertonic saline and water on aerobic performance and thermoregulation. NDSU. 2012.

Committee Member, Master's or Doctoral Student Committees

1. Ryan Grenberg (PhD)	Clinicians perceptions of cramping. College of St. Scholastica. 2021-2023.
2. Michelle Samuel (PhD)	Patellofemoral pain and gluteus medius activation. University of Nevada—Las Vegas. 2019-2021.
3. Lauren Dickey (PhD)	Exercise-associated muscle cramping and stress. University of Nevada—Las Vegas. 2019-2021.
4. Kelsey Potts (MS)	The differences in sweat rate and sweat composition in collegiate swimmers. University of South Carolina 2015-2017.
5. Loran Strunk (MS)	The differences in sweat rate and sweat composition in collegiate tennis players. University of South Carolina. 2015-2017.
6. Donal Murray (MS)	Does a reduction in serum sodium concentration or serum potassium concentration increase the prevalence of exercise-associated muscle cramps? CMU 2014.
7. Ben Myers (MS)	The differences in sweat rate and sweat composition in collegiate baseball and softball players. University of South Carolina 2013-2014.
8. Skye Koepplin (MAT)	Posterior proximal tibiofibular joint dislocation in a young gymnast: A case report. NDSU 2012.
9. Candace Lee (MAT)	Paradoxical vocal fold movement in a female volleyball player. NDSU 2012.
10. Marissa Lindback (MAT)	Youth parent perceptions of concussion. NDSU 2011.
11. Jodi Burrer (MAT)	Fracture blisters following a posterior elbow dislocation: A case report. NDSU 2011.
12. Abby Milton (MAT)	Grade III liver laceration in a female volleyball player: A case report. NDSU 2011.

Chair, Undergraduate Student Research Projects

1. John Evers-Smith	Prophylactic stretching and exercise-associated muscle cramp occurrence: A critically-appraised paper. 2022
2. Rachel Glovatsky &	CWI cooling rates using a secondary school EHS
3. John Evers-Smith	treatment protocol. 2021-2022.
4. Ethan Launstein	(1) American football uniforms effect on heat tolerance test outcomes. 2018-2019. (2) CWI cooling rates using a secondary school EHS treatment protocol. 2019-2020.

5. Shelby Schneider	Stationary and portable cold water immersion methods for treating hyperthermia: A critically-appraised topic. 2018-2019.
6. Kayla Boehm	Does gender affect rectal temperature cooling rates?: A critically-appraised topic. 2017-2018.
7. Grace Katt	Contribution of American football uniforms to the development of exercise-induced hyperthermia: A critically-appraised topic. 2017-2018.
8. Alison Fiorini & 9. Ethan Launstein	Validity of body temperature sites in hyperthermic humans wearing American football uniforms. 2017-2018.
10. Tim Wohlfert	(1) Effectiveness of pre-cooling for preventing hyperthermia in humans: A critically-appraised topic. (2) Whole body pre-cooling's effect on rectal temperature cooling rate. 2016-2017.
11. Tim DiMango & Grace Katt	Core temperature cooling when hyperthermic humans wear American football uniforms and treatment is delayed. 2015-2016.
12. Shelby Schneider & Leah Komisak	Warm water immersion as a treatment for hyperthermic humans wearing American football uniforms. 2015.
13. Megan Keen	(1) Should cooling vests be used to treat exertional heatstroke?: A critically-appraised topic; (2) Effectiveness of a wearable cooling system during exercise in the heat. 2015.
14. Lexie Hughes	Body core temperatures of the esophagus and rectum during exercise and cold-water immersion. 2015.

D. Courses Prepared and Curriculum Development:

TXST

1. AT3311: Clinical Assessment 1
2. AT5301: Musculoskeletal Assessment of the UE

CMU

1. HSC 791: Independent Study
2. ATR 315: Injury Prevention I (Taping & Bracing)
3. ATR 382: Athletic Training Assessment II (UE evaluation)
4. ATR 397: Athletic Training Independent Study
5. ATR 415: Injury Prevention II (Strength & Conditioning)
6. ATR 478WI: Research for the Health Professions
7. ATR 482: Internship in Athletic Training

NDSU

7. HNES 722: Readings in Sports Medicine
8. HNES 723: Advanced Sports Medicine Techniques
9. HNES 777: Current Research Practice in Athletic Training
10. HNES 782: Orthopedic Assessment II
11. HNES 790: Athletic Training Evidence Based Research & Practice
12. HNES 790: Publishing in Allied Health

BYU

8. EXSC 320: Basic Athletic Training
9. EXSC 321: Basic Athletic Training Taping Laboratory
10. EXSC 394: Athletic Training Clinical Education I
11. EXSC 395: Athletic Training Clinical Education II
12. EXSC 400L: Functional Anatomy/Cadaver Laboratory
13. EXSC 415: Therapeutic Modalities (Guest Lecturer)
14. EXSC 416: Lower Extremity Evaluation (Guest Lecturer)

E. Teaching Grants and Contracts
n/a

1. Funded External Teaching Grants and Contracts:
n/a

2. Submitted, but not Funded, External Teaching Grants and Contracts:
n/a

3. Funded Internal Teaching Grants and Contracts:
n/a

4. Submitted, but not Funded, Internal Teaching Grants and Contracts:

1. **Title:** Student Government Capital Project
Funding Agency: Student Government Capital Projects (NDSU)
Investigators: Miller KC, Gange K
Date: 2011
Amount: $20,675

F. Other:

G. Teaching Professional Development Activities Attended

1. 36th World Congress of Sports Medicine (FIMS)	2021
2. Canadian Athletic Therapists Association annual meeting	2017, 2019
3. Great Lakes Athletic Trainers Association Symposium	2014-2018, 2020, 2022
4. Michigan Athletic Trainers Society Symposium	2014-2019
5. North Dakota Athletic Trainers' Association Symposium	2013
6. American College of Sports Medicine Symposium	2009, 2016
7. Rocky Mountain Athletic Trainers' Association Symposium	2006-2008, 2022
8. National Athletic Trainers' Association Clinical Symposia and AT Expo	2005-2022
9. Wisconsin Athletic Trainers' Association Symposium	2002

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs: 0
b. Textbooks: 0

c. Edited Books: 0

d. Chapters in Books:

1. **Miller KC**. Exercise associated muscle cramping. In: Adams WM, Jardine J, eds. *Exertional Heat Illness--A Clinical and Evidence-Based Guide.* 1st ed. New York, NY: Springer Publishing Co; 2020. ISBN: 978-3-030-27804-5

e. Creative Books: 0

2. Articles:

a. Refereed Journal Articles:

1. **Miller KC**, Amaria NY. Rectal temperature cooling rates in the Polar Life Pod are excellent and consistent with stationary tubs. *J Athl Train*. 2022. In press.
2. **Miller KC**, McDermott BP, Yeargin SW, Fiol A, Schwellnus MP. An evidence-based review of the pathophysiology, treatment, and prevention of exercise associated muscle cramps. *J Athl Train*. 2022; 57: 5-15.
3. Szymanski MR, **Miller KC**, O'Connor P, Hildebrandt LA, Umberger L. Sweat characteristics in individuals with varying susceptibilities to exercise associated muscle cramps. *J Strength Cond Res*. 2022; 36: 1171-1176.
4. Scarneo-Miller SE, Lopez RM, **Miller KC**, Adams WM, Kerr ZY, Casa DJ. High schools continue to struggle to adopt evidence based practices for the management of exertional heat stroke. *J Athl Train*. 2021; In press.
5. Koenig FS, **Miller KC**, O'Connor P, Amaria NY. Body anthropometrics and rectal temperature cooling rates in hyperthermic women. *J Athl Train.* 2022; 57: 464-469
6. Katt GE, **Miller KC**. Contribution of American football uniforms to the development of exercise-induced hyperthermia: A critically-appraised topic. *Int J Athl Ther Train*. 2021; In press.
7. **Miller KC**, Casa DJ, Adams WM, Hosokawa Y, Cates J, Emrich C, Fitzpatrick T, Hopper M, Jardine J, Labotz M, Lopez R, O'Connor F, Smith S. Round table on preseason heat safety in secondary school athletics: Prehospital care of exertional heatstroke patients. *J Athl Train*. 2021; 56: 372-382.
8. Launstein ED, **Miller KC**, O'Connor P, Adams WM, Abrego ML. American football uniforms elicit thermoregulatory failure during a heat tolerance test. *Temperature*. 2021: 8; 245-253
9. **Miller KC**, Adams WM. Common body temperature sites provide invalid measures of body core temperature in hyperthermic humans wearing American football uniforms. *Temperature*. 2020; 8:166-175.
10. Boehm KE, Millar M, Long BC, **Miller KC**. Clinical perceptions on the physiological, psychological, and clinical influence of Kinesio Tex Tape (KTT) in health care practice. *Int J Athl Ther Train.* 2020; 25: 140-147.
11. **Miller KC**, McDermott BP, Yeargin SW. Sweat characteristics of cramp-prone and cramp-resistant athletes. *Int J Sports Nutr Exerc Metab.* 2020; 30: 218-228.
12. Wiese BW, **Miller KC**, Godoy E. A Buford Complex in a Division I collegiate American football player. *Int J Athl Ther Train*. 2020; 25: 12-16.
13. Belval LN, Hosokawa Y, Casa DJ, Adams WM, Armstrong LE, Baker L, Burke L, Cheuvront S, Chiampas G, Gonzalez-Alonso J, Huggins R, Kavouras S, Lee E,

McDermott B, **Miller KC**, Schlader Z, Sims S, Stearns R, Troyanos C, Wingo J. Practical hydration solutions for sports. *Nutrients*. 2019; 11: 1550.

14. Bradley LJ, **Miller KC**, Wiese BW, Novak JR. Precooling's effect on American football skills. *J Strength Cond Res*. 2019; 33: 2616-2621.

15. Moore M, Moriarty TA, Connolly G, Mermier C, Amorim F, **Miller KC**, Zuhl MN. Oral glutamine supplement reduces fatigue ratings during repeated bouts of firefighting simulations. *Safety*. 2019; 5: 1-14

16. Wohlfert TM, **Miller KC**. Precooling, exertional heatstroke risk factors, and postexercise cooling rates. *Aerosp Med Hum Perform*. 2019; 90: 12-17.

17. Taylor J, **Miller KC**. Precooling, hyperthermia, and postexercise cooling rates in humans wearing American football uniforms. *J Athl Train*. 2019; 54: 758-764.

18. Boehm KE, **Miller KC**. Does gender affect rectal temperature cooling rates?: A critically-appraised topic. *J Sport Rehabil*. 2019; 28: 522-525

19. Wohlfert TM, **Miller KC**. Does pre-cooling with whole-body immersion affect thermal sensation or perceived exertion?: A critically-appraised topic. *J Sport Rehabil*. 2019; 28: 517-521

20. Kaya T, Liu G, Ho J, Yelamarthi K, **Miller K**, Edwards J, Stannard A. Wearable sweat sensors: Background and current trends. *Electroanalysis*. 2018; 30: 1-12.

21. **Miller KC**, Di Mango TA, Katt GE. Cooling rates of hyperthermic humans wearing American football uniforms when cold-water immersion is delayed. *J Athl Train*. 2018; 53: 1200-1205.

22. **Miller KC**. The evolution of exercise-associated muscle cramp research. *ACSMs Health Fit J*. 2018; 22: 6-8.

23. **Miller KC**, Harsen JD, Long BC. Prophylactic stretching does not reduce cramp susceptibility. *Muscle Nerve*. 2018; 57: 473-477.

24. Keen ML, **Miller KC**, Zuhl M. Thermoregulatory and perceptual effects of a percooling garment worn underneath an American football uniform. *J Strength Cond Res*. 2017; 31: 2983-2991.

25. **Miller KC**, Long BC, Edwards JE. Muscle cramp susceptibility increases following volitionally-induced muscle cramp. *Muscle Nerve*. 2017;56: E95-E99.

26. **Miller KC**, Truxton TT, Long BC. Temperate water immersion as a treatment for hyperthermic humans wearing American football uniforms. *J Athl Train*. 2017: 52: 747-752.

27. **Miller KC**, Hughes LE, Long BC, Adams WM, Casa DJ. Validity of core temperature measurements at three rectal depths during rest, exercise, cold-water immersion, and recovery. *J Athl Train*. 2017; 52: 332-338.

28. Keen ML, **Miller KC**. Should cooling vests be used to treat exertional heatstroke?: A critically-appraised topic. *J Sport Rehabil*. 2017; 26: 286-289.

29. Hosokawa Y, Casa DJ, Belval LN, Capacchione JF, Deuster PA, Jardine JF, Kavouras SA, Lee EC, **Miller KC**, Muldoon SM, O'Connor FG, Riazi S, Rosenberg H, Sagui E, Sailor SR, Sambuughin N, Stearns RL. Round table on malignant hyperthermia in physically active populations: Meeting proceedings. *J Athl Train*. 2017; 52: 377-383.

30. Burke J, Herman A, Long BC, **Miller KC.** Ankle skin temperature changes following ice bag application with compression at varying levels of elevation. *Athl Train Sports Health Care.* 2017; 9: 163-168.

31. Truxton TT, **Miller KC**. Can temperate water immersion be used to treat exertional heat stroke?: A critically-appraised topic. *J Sport Rehabil*. 2017; 26: 447-451.

32. Long BC, **Miller KC**. Influence of topical analgesic cream on passive hip flexion range of motion, sensation of pressure, and temperature. *Athl Train Sports Health Care*. 2016; 8: 55-62.
33. Murray D, **Miller KC**, Edwards JE. Does a reduction in serum sodium concentration or serum potassium concentration increase the prevalence of exercise-associated muscle cramps? *J Sport Rehabil*. 2016; 25: 301-304.
34. Liu G, Slappey N, Zhou Z, Snelgrove S, Ho C, Brown M, Grabinski A, Guo X, Chen Y,**Miller KC**, Edwards J, Kaya T. A wearable conductivity sensor for wireless real-time sweat monitoring. *Sensors Actuators B: Chemical*. 2016; 227: 35-42.
35. Miller KC. Myths and misconceptions about exercise-associated muscle cramping. *ACSMs Health Fit J*. 2016; 20: 37-39.
36. Casa DJ, DeMartini JK, Bergeron MF, Csillan D, Eichner R, Lopez R, Ferrara M, **Miller KC**, O'Connor F, Sawka M, Yeargin S. National Athletic Trainers' Association position statement on exertional heat illnesses. *J Athl Train*. 2015; 50: 986-1000.
37. Hew-Butler T, Rosner MH, Fowkes-Godek S, Dugas JP, Hoffman MD, Lewis DP, Maughan RJ, **Miller KC**, Montain SJ, Rehrer NJ, Roberts WO, Rogers IR, Siegel AJ, Stuempfle KJ, Winger JM, Verbalis JG. Statement of the 3rd International Exercise-Associated Hyponatremia Consensus Development Conference. *Br J Sports Med*. 2015; 49: 1432-1446.
38. Hew-Butler T, Rosner MH, Fowkes-Godek S, Dugas JP, Hoffman MD, Lewis DP, Maughan RJ, **Miller KC**, Montain SJ, Rehrer NJ, Roberts WO, Rogers IR, Siegel AJ, Stuempfle KJ, Winger JM, Verbalis JG. Statement of the 3rd International Exercise-Associated Hyponatremia Consensus Development Conference. *Clin J Sports Med*. 2015; 25: 303-320.
39. Miller KC, Long BC, Edwards JE. Necessity of removing American football uniforms from hyperthermic humans before cold-water immersion. *J Athl Train*. 2015; 50: 1240-1246.
40. Miller KC. Rethinking the cause of exercise-associated muscle cramping: Moving beyond dehydration and electrolyte losses. *Curr Sports Med Rep*. 2015; 14: 353-354.
41. Miller KC, Swartz EE, Long BC. Cold-water immersion for hyperthermic humans wearing football uniforms. *J Athl Train*. 2015; 50: 792-799.
42. McKenney MA, **Miller KC**, Deal JE, Garden-Robinson JA, Rhee YS. Plasma and electrolyte changes in exercising humans following ingestion of multiple boluses of pickle juice. *J Athl Train*. 2015; 50:141-146.
43. Miller KC, Burne JA. Golgi tendon organ reflex inhibition following manually-applied acute static stretching. *J Sports Sci.* 2014; 32: 1491-1497.
44. Peikert JR, **Miller KC,** Albrecht JM, Tucker JM, Deal JE. Pre-exercise ingestion of pickle juice, hypertonic saline, or water and aerobic performance and thermoregulation. *J Athl Train*. 2014; 49: 204-209.
45. Miller KC. Electrolyte and plasma responses after pickle juice, mustard, and deionized water ingestion in dehydrated humans. *J Athl Train*. 2014; 49: 360-367.
46. Allen ST, **Miller KC,** Albrecht JM, Garden-Robinson JA, Blodgett-Salafia EH. *Ad libitum* fluid intake and plasma responses following pickle juice, hypertonic saline and deionized water ingestion. *J Athl Train*. 2013; 48: 734-740.
47. Milton AE, Hansen PJ, **Miller KC**, Rhee YS. Grade III liver laceration in a female volleyball player. *Sports Health.* 2013; 5: 150-152.
48. Burrer JL, Hansen PJ, **Miller KC**, Christensen B. Fracture blisters following a posterior elbow dislocation: A case report. *Int J Athl Ther Train.* 2013; 18: 17-19.
49. Braulick KW, **Miller KC**, Albrecht JM, Tucker JM, Deal JE. Significant and serious

dehydration does not affect skeletal muscle cramp threshold frequency. *Br J Sports Med*. 2013; 47: 710-714.

50. Hawkins JR, **Miller KC**. The importance of target tissue depth in cryotherapy application. *J Athl Enhance*. 2012; 1: 1-4.

51. Miller KC. Plasma potassium concentration and content changes following banana ingestion in exercised males. *J Athl Train.* 2012; 47: 648-654.

52. Miller KC, Knight KL. Initial electrical stimulation frequency and cramp threshold frequency and force. *J Athl Train*. 2012; 47: 643-647.

53. Jutte L**,** Hawkins JR, **Miller KC**, Long BC, Knight KL. Skinfold thickness at 8 common cryotherapy sites in various athletic populations. *J Athl Train.* 2012; 47:170-177.

54. Miller KC, Knight KL, Wilding SW, Stone MB. Duration of electrically induced muscle cramp increased by increasing stimulation frequency. *J Sport Rehabil.* 2012; 21:182-185.

55. **Miller KC**, Mack GW, Knight KL. Gastric emptying after pickle juice ingestion in rested, euhydrated humans. *J Athl Train.* 2010; 45: 601-608.

56. Miller KC, Mack GW, Knight KL, Hopkins JT, Draper DO, Fields PJ, Hunter I. Three percent hypohydration does not affect threshold frequency of electrically induced cramps. *Med Sci Sports Exerc.* 2010; 42: 2056-2063.

57. Miller KC, Mack GW, Knight KL, Hopkins JT, Draper DO, Fields PJ, Hunter I. Reflex inhibition of electrically induced muscle cramps in hypohydrated humans. *Med Sci Sports Exerc.* 2010; 42: 953-961.

58. Miller KC, Stone MB, Huxel KC, Edwards JE. Exercise-associated muscle cramps: causes, treatment, and prevention. *Sports Health.* 2010; 2: 279-283.

59. Miller KC, Mack GW, Knight KL. Electrolyte and plasma changes following ingestion of pickle juice, water, and a common carbohydrate-electrolyte solution. *J Athl Train*. 2009; 44: 454-461.

60. Udermann B, **Miller KC**, Doberstein S, Reineke D, Murray S, Pettitt R. Spatting restricts ankle range of motion more effectively than taping during exercise. *Int J Exerc Sci.* 2009; 2: 72-82.

61. Miller KC, Knight KL. Electrical stimulation cramp threshold frequency correlates well with the occurrence of skeletal muscle cramps. *Muscle Nerve*. 2009; 39: 364-368.

62. Miller KC, Knight KL, Williams RB. Athletic Trainers' perceptions of pickle juice's effects on exercise associated muscle cramps. *Athl Ther Today*. 2008; 13: 31-34.

63. Miller KC, Knight KL. Pain and soreness associated with a percutaneous electrical stimulation muscle cramping protocol. *Muscle Nerve*. 2007; 36:711-714.

b. Non-refereed Articles:

64. McDermott BP, **Miller KC**, Lopez RM, Yeargin SW. Letter to the editor. *NATA News*. 2016; January: 9.

65. Miller KC, Lopez RM, Yeargin SW, McDermott BP, Casa DJ. Letter to the editor.*NATA News*. 2014; July: 10.

3. Conference Proceedings:

a. Refereed Conference Proceedings: 0

b. Non-refereed: 0

4. Abstracts:

1. Launstein ED, **Miller KC**, O'Connor P, Adams WM, Keen ML. American football uniforms cause failures on the heat tolerance test. *J Athl Train*. 2020.
2. Bradley LJ, **Miller KC**, Wiese BW, Novak JR. Precooling effects on American football skills. *Med Sci Sports Exerc*. 2019; 51: 136
3. Long BC, Truxton TT, **Miller KC**. Treatment order and retention of myofascial release and static stretching on hip flexion range of motion. *J Athl Train*. 2019; 54: S56.
4. **Miller KC**, Adams WM. Validity of common body core temperature sites in hyperthermic humans wearing American football uniforms. *J Athl Train*. 2019; 54: S67-68.
5. Wohlfert TM, **Miller KC**. Whole-body precooling mitigates some exertional heatstroke risk factors without affecting cold-water immersion cooling rates. *J Athl Train*. 2018; 53: S369.
6. **Miller KC**, Yeargin SW, McDermott BP. Sweat electrolyte concentrations and sweat rates of athletes with and without a history of muscle cramps. *J Athl Train*. 2018; 53:S207-208.
7. Long BC, **Miller KC**. Electrical point stimulation on myofascial trigger points in the upper back and neck muscles. *J Athl Train*. 2017; 52: S300.
8. Keen ML, **Miller KC**, Zuhl MN. Thermoregulatory and perceptual effects of a percooling garment worn underneath an American football uniform. *J Athl Train*. 2017; 52:S104.
9. Katt GE, Di Mango TA, **Miller KC**. Cooling rates of hyperthermic humans wearing American football uniforms when cold-water immersion is delayed. *J Athl Train*. 2017; 52: S314.
10. **Miller KC,** Harsen JD**,** Long BC. Acute static or PNF stretching does not reduce cramp susceptibility in cramp-prone humans. *J Athl Train*. 2017; 52: S307-S308.
11. Hughes LE, **Miller KC**, Long BC, Adams WM, Casa DJ. Validity of core temperature measurements at three depths in the rectum during rest, exercise, cold-water immersion, and recovery. *J Athl Train*. 2016; 51: S272.
12. **Miller KC**, Long BC, Edwards JE. Muscle cramps increase H-reflex motor neuron excitability. *J Athl Train*. 2016; 51: S272.
13. **Miller KC**, Long BC, Edwards JE. Muscle cramp susceptibility increases following volitionally-induced muscle cramp. *Med Sci Sports Exerc*. 2016; 48: 902.
14. Long BC, **Miller KC**. Analgesic cream and static stretching on temperature, sensation of pressure, and hamstring flexibility. *J Athl Train*. 2015; 50: S271.
15. Burke J, Herman A, Long BC, **Miller KC**. Ankle skin temperature changes following ice bag application with varying levels of elevation. *J Athl Train*. 2015; 50: S166.
16. **Miller KC**, Long BC, Edwards JE. Necessity of removing American football uniforms from hyperthermic humans prior to cold-water immersion. *J Athl Train*. 2015; 50: S59.
17. **Miller KC**, Burne JA. Acute static stretching does not affect golgi tendon organ reflex inhibition. *J Athl Train*. 2013; 48: S259.
18. Hawkins JR, **Miller KC**. Gender plays a role in deep tissue cooling independent of skinfold thickness. *J Athl Train*. 2012; 47: S134-135.
19. Milton AE, Hansen PJ, **Miller KC**, Rhee YS. Grade three liver laceration in an intercollegiate volleyball player: A case report. *J Athl Train*. 2011; 46: S93-S94.
20. Burrer JL, Hansen PJ, **Miller KC**, Christensen B. Fracture blisters following a posterior elbow dislocation: A case report. *J Athl Train*. 2011; 46: S153.
21. **Miller KC**, Mack GW, Knight KL, Hopkins JT, Draper DO, Fields PJ, Hunter I. Hypohydration does not increase the threshold frequency of electrically induced cramps. *J Athl Train.* 2010; 45: S85.

22. **Miller KC**, Mack GW, Knight KL. Pickle juice inhibits gastric emptying in rested, euhydrated humans. *Med Sci Sports Exerc*. 2009; 41: 191-192.
23. **Miller KC**, Knight KL. The relationship between the beginning electrical stimulation frequency and a person's "true" cramp threshold frequency. *J Athl Train*. 2009; 44: S89.
24. Wilding SW, **Miller KC**, Stone, MB, Knight KL. Increasing electrical stimulation frequency above cramp threshold frequency increases the strength and duration of electrically-induced muscle cramps. *J Athl Train.* 2009; 44: S73.
25. **Miller KC**, Mack GW, Knight KL. The effects of pickle juice, Gatorade, and water ingestion on plasma variables in rested, euhydrated humans. *J Athl Train*. 2008; 43: S38.
26. **Miller KC**, Hawkins JR, Knight KL. Variations of skinfold thickness at different locations in college-aged physically active individuals and athletes. *J Athl Train.* 2007; 42: S68.

5. Reports: 0

6. Book Reviews:0

7. Essays:0

8. Poems:0

9. Short Stories:0

10. Other Works in Print:0

B. Works Not in Print:

1. Papers Presented at Professional Meetings:0

2. Invited Talks, Lectures, and Presentations:

International (refereed)

1. Exercise-associated muscle cramps: Separating fact from fiction. Canadian Athletic Therapists Association annual meeting; Calgary, Canada: 2019.
2. Advances in exertional heatstroke diagnosis and treatment. Canadian Athletic Therapists Association annual meeting; Niagara Falls, Canada: 2017.

International (invited)

3. Muscle cramping, hyponatremia, and the psychology of overdrinking. 36th World Congress of Sports Medicine (FIMS 2021); Athens, Greece: 2021.
4. Exercise-associated muscle cramps and hyponatremia: What's the link? Third International Symposium on Hyponatremia; San Diego, CA: 2015.
5. Rethinking the muscle cramp paradigm. University of New England; Armidale, Australia: 2011.

National (refereed)

6. Dehydration causes muscle cramping: Myth or fact? NATA Annual Symposium. St. Louis, MO: 2015.

7. Myths about muscle cramping (and the research that refutes them!). NATA Annual Symposia; Las Vegas, NV: 2013.
8. The neurological evidence for exercise-associated muscle cramps. NATA Annual Symposia; New Orleans, LA: 2011.
9. Dispelling dehydration myths. NATA Annual Symposia; Philadelphia, PA: 2010.
10. Heat illnesses that are NOT heat illnesses: exercise associated muscle cramps. NATA Annual Symposia; Philadelphia, PA: 2010.

National (invited)

11. Evidence-based treatment and prevention strategies for muscle cramping. VNATA Symposia; online: 2020.
12. Facts and fables about exercise-associated muscle cramps. NATA Annual Symposia; Las Vegas, NV: 2019.
13. Muscle cramps: Update on causes, treatment, and prevention. NATA Annual Symposia; New Orleans, LA: 2018.
14. New advances in exertional heatstroke diagnosis, treatment, and prevention. NATA Annual Symposia; Houston, TX: 2017.
15. Recent advances in exertional heatstroke diagnosis and treatment. NATA Webinar. 2016.
16. Lead them to water but don't force them to drink!: Recommendations to prevent hyponatremia. NATA Annual Symposia; Baltimore, MD: 2016.
17. EAMC: Characteristics and Cures. ACSM Symposium; Boston, MA: 2016.
18. Myths and misconceptions about muscle cramping. NATA Webinar. 2015.

Regional (refereed)

19. Rectal temperature assessment laboratory. RMATA Symposia (District 7); Albuquerque, NM: 2022.
20. Exercise associated muscle cramping, hyponatremia, dehydration, and electrolyte loss: Related or not? RMATA Symposia (District 7); Albuquerque, NM: 2022.
21. Exertional heatstroke: Defending and implementing best practice in the field. RMATA Symposia (District 7); Albuquerque, NM: 2022.
22. Exertional heatstroke: Defending and implementing best practice in the field. GLATA Symposium (District 4); Chicago, IL: 2018.
23. American football and exertional heatstroke: What have we learned in the last 50years? GLATA Symposium (District 4); Chicago, IL: 2017.
24. New considerations for diagnosing, treating, and preventing exertional heatstroke. GLATA Symposium (District 4); Chicago, IL: 2016.
25. Are dehydration and electrolyte loss to blame for muscle cramps? What does the research say? GLATA Symposium (District 4); Chicago, IL: 2015.
26. Does dehydration or electrolyte loss cause cramping?: An evidence-based appraisal of the literature. Michigan AT Symposium; Ypsilanti, MI: 2014.
27. Muscle cramps: Facts and fallacies. GLATA Symposium (District 4); Chicago, IL: 2014.
28. The neurology of muscle cramps. RMATA Symposia (District 7); Phoenix, AZ: 2008.
29. The causes of muscle cramps: past, present, and future. RMATA Symposia (District 7); Denver, CO: 2007.
30. Assessing and implementing evidence-based research in athletic training settings. RMATA Symposia (District 7); Salt Lake City, UT: 2006

Regional (invited)

31. American football and exertional heatstroke: What have we learned in the last 50years? South Padre Athletic Training Seminar; South Padre, TX: 2022.
32. Facts and fables about muscle cramps. South Padre Athletic Training Seminar; South Padre, TX: 2022.
33. Exertional heatstroke: Defending and implementing best practice in the field. Community Care Hospital 2020 Sports Medicine Symposium; Munster, IN: 2020.
34. Myths and misconceptions about exercise associated muscle cramping. Premier Health Sports Medicine Symposium; Dayton, OH: 2020.
35. EAMC and hyponatremia: What's the link? MI Athletic Trainers Society Meeting; East Lansing, MI: 2020.
36. Exercise-associated muscle cramps: Causes, treatment, and prevention. GLATA Symposium (District 4); Wheeling, IL: 2020.
37. Exercise-associated muscle cramps: Should we focus on hydration and electrolyte replacement? District 230 Sports Medicine Symposium; Palos Hills, IL:
38. Exertional heatstroke: What administrators and coaches need to know. Lafayette Area Sports Medicine Symposium; West Lafayette, IN: 2019.
39. Exertional heatstroke: What you need to know in 2019. Lafayette Area Sports Medicine Symposium; West Lafayette, IN: 2019.
40. Advances in exertional heatstroke diagnosis and treatment. CMU; Mt Pleasant, MI: 2018.
41. Advances in exertional heatstroke diagnosis and treatment. Purdue University; West Lafayette, IN: 2018.
42. Exertional heatstroke: Best practice, legal precedent, and mock trial. MI Athletic Trainers Society Meeting; East Lansing, MI: 2018.
43. Exercise associated muscle cramps and hyponatremia: What's the link? Hawaii Athletic Trainers Association Meeting; Honolulu, HI: 2018.
44. Advances in exertional heatstroke diagnosis and treatment. Hawaii Athletic Trainers Association Meeting; Honolulu, HI: 2018.
45. Facts and fables about muscle cramps. Hawaii Athletic Trainers Association Meeting; Honolulu, HI: 2018.
46. Advances in exertional heatstroke diagnosis and treatment. Adrian College; Adrian, MI: 2018.
47. Advances in exertional heatstroke diagnosis and treatment. Virginia Athletic Trainers Association annual meeting; Norfolk, VA: 2018.
48. Facts and fables about muscle cramps. Virginia Athletic Trainers Association annual meeting; Norfolk, VA: 2018.
49. Exertional heatstroke: Defending and implementing best practice in the field. MI Athletic Trainers Society Meeting; Ypsilanti, MI: 2017.
50. Updates on the Cause, Treatment, and Prevention of Exertional Heatstroke and Exercise-Associated Muscle Cramping. Illinois Athletic Trainers Association. Webinar: June, 2017.
51. Recent advances in exertional heatstroke diagnosis and treatment. Far West Athletic Trainers Association Meeting; Las Vegas, NV: 2017.
52. Facts and fables about muscle cramps. Far West Athletic Trainers Association Meeting; Las Vegas, NV: 2017.
53. Fact or fiction in the mechanism and treatment of muscle cramps. MI State University; Lansing, MI: 2017.
54. Facts and fables about muscle cramps. Illinois Athletic Trainers Association Meeting; Naperville, IL: 2016.

55. Facts and fables about muscle cramps. MI Athletic Trainers Society Meeting; Ypsilanti, MI: 2016.
56. Advances in exertional heatstroke diagnosis and treatment. MI Athletic Trainers Society Meeting; Ypsilanti, MI: 2016.
57. Facts and fables about muscle cramps. Pennsylvania State University; State College, PA: 2016.
58. Muscle cramping—moving beyond dehydration and electrolyte losses. Pennsylvania State University; State College, PA: 2016.
59. Dehydration causes cramping…and other myths and misconceptions about muscle cramps: An evidence-based presentation. Lafayette Orthopedic Clinic Symposium; Lafayette, IN: 2016.
60. Are dehydration and electrolyte loss to blame for muscle cramps? What does the research say? ACHIEVING Best Practices in Emergency Care for Student- Athletes Conference. George Mason University; Manassas, VA: 2015.
61. Exercise-associated muscle cramps. Southwest ACSM Symposium; Costa Mesa, CA: 2014.
62. Dehydration and muscle cramping: What does the research say in 2014? University of New Hampshire; Durham, NH: 2014.
63. "Cramping" athlete's style: What do you know about cramping? Michigan Athletic Training Student Seminar; Mount Pleasant, MI: 2014.
64. "Around the Horn"—Professionals in Athletic Training. Michigan Athletic Training Student Seminar; Mount Pleasant, MI: 2014.
65. Five myths about exercise-associated muscle cramps. NDATA Symposium; Fargo, ND: 2013.
66. Muscle cramps. Gatorade Sports Science Institute; Barrington, IL: 2008.

Community (invited)

67. Rectal temperature lab. Northwood University Athletic Training staff. August 4, 2021.
68. Exertional heat illnesses. Grand Valley State University Athletic Training Program (guest lecture for Dr. Tonya Parker). February 2, 2021.
69. EAMC: Causes, treatment, and prevention. University of North Florida Athletic Training Program (guest lecture for Dr. Michelle Boling). September 23, 2020.
70. Exertional heatstroke: Defending and implementing best practice in the field. McLaren Central Michigan Hospital; Mt. Pleasant, MI: 2016.
71. Exertional heatstroke: Defending and implementing best practice in the field. CMU Preceptor Day; Mt. Pleasant, MI: 2016
72. New considerations for diagnosing, treating, and preventing exertional heatstroke. CMU Preceptor Day; Mt. Pleasant, MI: 2016. *BOC EBP CEU approved session*.
73. Treating hyperthermic American football players: Do you have to remove equipment? Student Athletic Training Organization meeting (Nov); Mount Pleasant, MI: 2014.
74. Does dehydration or electrolyte loss cause cramping?: An evidence-based appraisal of the literature. CMU Preceptor Day; Mt. Pleasant, MI: 2014.
75. Necessity of removing American football uniforms in exertional heat stroke scenarios. CMED Research Symposium; Mount Pleasant, MI: 2014.
76. Mythbusters: Cramp edition. College of Health Profession Dean's Advisory committee; Mount Pleasant, MI: 2013.
77. Current research on the etiology and treatment of muscle cramps. Sanford Hospital; Fargo, ND: 2010.

3. Consultancies:

1. Kerry GAA Gaelic football team. Served as a consultant to help Gaelic footballers stop cramping. 2022
2. Cryothermic Systems, Inc. Served as a consultant to a company that makes products to treat exertional heatstroke. 2019
3. The Pickle Juice Company, Inc. Served as a consultant for a company that makes a beverage to stop muscle cramping. 2017-2018
4. Jackson Lewis P.C. Law firm. Served as an expert for legal counsel. 2017
5. Flex Pharma. Served as a consultant and tested the effectiveness of their product.
6. PureTech Ventures. Served on scientific advisory board and consultant. 2013-2014
7. Leicester Tigers Professional Rugby Team (United Kingdom). Advised medical staff regarding athlete with persistent exercise-associated muscle cramping. 2013
8. Central Michigan University. Helped scientists learn cramp induction technique. 2012

4. Workshops:0

5. Other Works not in Print:

a. Works "submitted" or "under review":

1. **Miller KC**, Amaria NY. Polar Life Pod cooling rates with two different water temperatures**.** *J Athl Train*. 2022. In review.

b. Works "in progress":

1. **Miller KC,** Launstein ED, Glovatsky R. Body core temperature cooling using two cold-water immersion preparation strategies. In manuscript preparation.
2. Parkison C, **Miller KC,** Scarneo-Miller SE, Lopez RM. Perceptions of athletic trainers about the prevention of exercise-associated muscle cramps. *J Athl Train*. 2022; In manuscript preparation.
3. Parkison C, **Miller KC,** Lopez RM, Scarneo-Miller SE. Perceptions of athletic trainers about the recognition and treatment of exercise-associated muscle cramps. *J Athl Train*. 2022; In manuscript preparation.
4. Parkison C, **Miller KC,** Scarneo-Miller SE, Lopez RM. Facilitators and barriers to implementing best practice for the treatment and prevention of exercise-associated muscle cramps. *J Athl Train*. 2022; In manuscript preparation.
5. Samuel M, **Miller KC**. Patellofemoral pain and gluteus medius activation. 2022; In manuscript preparation.
6. Szymanski M, **Miller KC**, McDermott B, Yeargin S, Stearns RL, Casa DJ. Comparison of sweat characteristics between Black and Caucasian Division 1 athletes. In data analysis.
7. Dickey L, Lee S, **Miller KC,** Gregor R, Pharr J. Stress' effect on muscle cramp threshold frequency. 2022; In data collection.
8. **Miller KC**, Amaria NY, Scarneo-Miller S, Casa DJ, Jardine J, Stearns R. Patient perceptions about exertional heatstroke diagnosis, treatment, and prognosis. 2022; In IRB review.

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

8. **Title:** Validity and reliability of [name redacted due to NDA] for hydration status, Study 1
Funding Agency: Company name redacted until study completion
Primary Investigator: Miller KC
Co-Investigators:
Date: 2022-2023
Amount: $190,000 from sponsor, $5,000 in donated product ($195,000 total)

7. **Title:** Cooling effectiveness of the Polar Life Pod and immersion tub
Funding Agency: POLAR Products, Inc
Investigators: Miller KC
Date: 2021-2022
Amount: $97,847 and $3,632 in donated products ($101,479 total)

5**. Title:** Validity of sweat rate estimates using various durations of exercise
Funding Agency: Michigan Athletic Trainers Society
Investigators: Zickmund C, **Miller KC**, Baker LB, O'Connor P, Amaria NY
Date: 2020-2021
Amount: $500

4. **Title:** 36th World Congress of Sports Medicine Presentation
Funding Agency: National Athletic Trainers Association International Speaker Program
Investigators: Miller KC
Date: 2019-2020
Amount: $4,069

3. **Title:** CWI cooling rates using a secondary school water bath preparation protocol.
Funding Agency: Michigan Athletic Trainers Society
Investigators: Launstein EL, **Miller KC**
Date: 2019-2020
Amount: $500

2. **Title:** Effectiveness of Pickle Juice® Sport
Funding Agency: The Pickle Juice Company
Investigators: Miller KC
Date: 2018-2019
Amount: $31,343 and $500 in donated product ($31,843 total)

1. **Title:** A randomized, vehicle-controlled study to assess the effectiveness of the Flex-Aid beverage in preventing externally-induced muscle cramp of the flexor hallucis brevis muscle in healthy subjects.
Funding Agency: Flex Pharma, Inc
Investigators: Miller KC
Date: 2014
Amount: $69,707.00 and $500 in donated product ($70,207 total)

2. Submitted, but not Funded, External Grants and Contracts:

1. Title: The role of type I hypersensitivity in mosquito blood feeding

Funding Agency: NIH NIAID R21
Investigators: Conway MJ, Londono-Renteria B, **Miller KC**
Date: 2021
Amount: $415,875

2. **Title:** A tailored approach to keep high school athletes from dying from exertional heat stroke
Funding Agency: Thrasher Foundation
Investigators: Scarneo-Miller SE, Casa DJ, **Miller KC**, Lopez RM
Date: 2019
Amount: $25,000

3. **Title:** Cooling effectiveness of the PolarLife Pod
Funding Agency: POLAR Products, Inc
Investigators: Miller KC
Date: 2018
Amount: $33,449.00

4. **Title:** The role of type I hypersensitivity in mosquito blood feeding
Funding Agency: NIH NIAID R21
Investigators: Conway MJ, Londono-Renteria B, **Miller KC**
Date: 2018
Amount: $275,000

5. **Title**: Cooling effectiveness of the Polar Life Pod vs. Immersion tub
Funding Agency: POLAR Products, Inc
Investigators: Miller KC
Date: 2017
Amount: $43,458.00

6. **Title:** Effectiveness of Innergy Sport on Cramp Prevention
Funding Agency: Innergy Sport
Investigators: **Miller KC**
Date: 2016
Amount: $46,769

7. **Title:** Cooling effectiveness of the Polar Life Pod
Funding Agency: POLAR Products, Inc
Investigators: Miller KC
Date: 2016
Amount: $35,746.00

8. **Title:** The use of glutamine to minimize thermal stress during repeated firefighting simulations.
Funding Agency: Department of Homeland Security, Federal Emergency Management Agency
Investigators: Zuhl M**, Miller KC**
Date: 2016
Amount: $25,000

9. **Title:** Effectiveness of a cooling garment worn beneath American football uniforms during exercise in the heat
Funding Agency: Great Lakes Athletic Trainers Association (GLATA)
Investigators: Miller KC
Date: 2015
Amount: $1,500

10. Title: Effectiveness of various iterations of Pickle Juice Sport
Funding Agency: PJ Sport
Investigators: Miller KC
Date: 2015
Amount: $20,553

11. Title: Development of in silica models for integration of complex metabolic processes.
Funding Agency: National Science Foundation, Major research instrumentation program
Investigators: Sharma N, Lixin L, Nelson R, Zuhl M, Lomond K, **Miller KC**, Rossignol J
Date: 2014
Amount: $445,440

12. Title: Always at the peak! A real-time hydration watch
Funding Agency: Michigan Initiative for Innovation and Entrepreneurship
Investigators: Kaya T, Edwards JE, **Miller KC**
Date: 2014
Amount: $63,414

13. Title: Light therapy and occlusive dressings on superficial skin wounds
Funding Agency: American College of Sports Medicine
Investigators: Long BC, **Miller KC**, Zipple TJ
Date: 2013
Amount: $5,000

14. T**itle:** Development of in silica models for integration of complex metabolic processes.
Funding Agency: National Science Foundation, Major research instrumentation program
Investigators: Sharma N, Zuhl M, Nelson R, Lixin L, Rossignol J, Lomond K, **Miller KC**
Date: 2013
Amount: $176,360

15. Title: Factors which predispose athletes to exercise-associated muscle cramps.
Funding Agency: NATA Research and Education Foundation
Investigators: Miller KC, Long BC, Edwards JE
Date: 2013
Amount: $115,000

16. Title: Eat smart. Play Hard. Together 2013.
Funding Agency: General Mills Corporation
Investigators: Garden-Robinson JA, **Miller KC**
Date: 2012
Amount: $10,000

17. Title: Munch and crunch nutrition and fitness (Munch and crunch after school program)
Funding Agency: General Mills Corporation
Investigators: Garden-Robinson JA, **Miller KC**
Date: 2011
Amount: $50,000

18. Title: Novel beverage ingredients and technologies to improve physical performance
Funding Agency: Nine Sigma Corporation
Investigators: Miller KC
Date: 2010
Amount: $84,000

3. Funded Internal Grants and Contracts:

52. **Title**: Falmouth Road Race Research
Funding Agency: Athletic Training Research Fund (CMU)
Investigators: Alvesteffer O, Gremel M, Daoust A, **Miller KC**
Date: 2022
Amount: $1,500

51. **Title:** Vice President Discretionary Fund for [Name Redacted] Research Study
Funding Agency: Office of Research and Graduate Studies (CMU)
Investigators: Miller KC, O'Connor P
Date: 2021
Amount: $5,000

50. **Title:** FRCE publication and exhibition grant
Funding Agency: Office of Research and Graduate Studies (CMU)
Investigators: Miller KC
Date: 2021
Amount: $1,000

49. **Title:** Research Assistance Grant
Funding Agency: College of Health Professions Research Committee (CMU)
Investigators: Miller KC
Date: 2020
Amount: $250

48. **Title:** Premier Display Grant.
Funding Agency: Office of Research and Graduate Studies (CMU)
Investigators: Miller KC
Date: 2020
Amount: $800

46 & 47**. Title:** Validity of sweat rate estimates using various durations of exercise
Funding Agency: College of Health Professions; Office of Research & Graduate Studies
Investigators: Zickmund C, **Miller KC**
Date: 2020-2021

Amount: $500 and $800, respectively

44 & 45. **Title:** CWI Cooling Rates using a Secondary School Water Bath Preparation Protocol
Funding Agency: Office of Research and Graduate Studies (CMU); College of Health Professions Research Grant (CMU)
Investigators: Launstein ED, **Miller KC**
Date: 2019
Amount: $500 and $500, respectively

43. **Title:** Premier Display Grant for "Validity of Common Body Core Temperature Measurement Sites in Hyperthermic Humans Wearing American Football Uniforms" and "Facts and Fables about Exercise-associated Muscle Cramps"
Funding Agency: Office of Research and Graduate Studies (CMU)
Investigators: **Miller KC**
Date: 2019
Amount: $800

42. **Title:** Inter-association task force meeting on preseason heat safety in secondary school athletics
Funding Agency: College of Health Professions Faculty Presentation Grant (CMU)
Investigators: **Miller KC**
Date: 2019
Amount: $500

40 & 41. **Title:** American football uniforms effect on heat tolerance test outcomes
Funding Agency: Office of Research and Graduate Studies (CMU); College of Health Professions Research Grant (CMU)
Investigators: Launstein ED, **Miller KC**
Date: 2018
Amount: $470 and $500, respectively

38 & 39. **Title:** Contribution of body anthropomorphics to rectal temperature cooling rates in women with exertional hyperthermia
Funding Agency: Office of Research and Graduate Studies (CMU); College of Health Professions Research Grant (CMU)
Investigators: Koenig FS, **Miller KC**
Date: 2018
Amount: $800 and $500, respectively

37. **Title:** Precooling's effects on American football skills
Funding Agency: College of Health Professions Research Grant (CMU)
Investigators: Bradley LJ, **Miller KC**
Date: 2018
Amount: $500

35 & 36. **Title:** Sweat and Cramp Characteristics in Individuals with Varying Susceptibilities to Exercise Associated Muscle Cramps
Funding Agency: College of Health Professions Research Grant; Office of Research and Sponsored Programs Graduate Student Research and Creative Endeavors Grant (CMU)

Investigators: Szymanski MR, **Miller KC**
Date: 2018
Amount: $500 & $800, respectively

33 & 34. **Title:** Effect of whole body pre-cooling on rectal temperature cooling rates.
Funding Agency: Office of Research and Graduate Studies Faculty Research and Creative Endeavors Grant; College of Health Professions (CMU)
Investigators: Wohlfert TM, **Miller KC**
Date: 2017
Amount: $800 and $500, respectively

31 & 32. **Title:** Cooling rates of hyperthermic humans wearing American football uniforms when treatment is delayed
Funding Agency: College of Health Professions (CMU); Office of Research and Sponsored Programs Undergraduate Research and Creative Endeavors Grant (CMU)
Investigators: Katt GE, DiMango TA, **Miller KC**
Date: 2016
Amount: $3,000 and $500, respectively.

30. **Title:** Effectiveness of a wearable cooling system during exercise in heat
Funding Agency: Office of Research and Sponsored Programs Summer Scholar Grant (CMU)
Investigators: Keen ML, Miller KC
Date: 2015
Amount: $3,500

29. **Title:** Warm water immersion as a treatment for hyperthermic humans wearing American football uniforms.
Funding Agency: Office of Research and Sponsored Programs Graduate Student Research and Creative Endeavors Grant (CMU)
Investigators: Truxton TT, **Miller KC**
Date: 2015
Amount: $800

28. **Title:** Environmental Chamber for Human Performance Laboratory
Funding Agency: College of Health Professions
Investigators: Miller KC
Date: 2014-2016
Amount: $350,000

27. **Title:** Effectiveness of a wearable cooling system during exercise in heat
Funding Agency: Honors Program (CMU)
Investigators: Keen ML*, **Miller KC**
Date: 2015
Amount: $300

26. **Title:** Body core temperatures of the esophagus and rectum during exercise and cold-water immersion
Funding Agency: Office of Research and Sponsored Programs Summer Scholars Grant (CMU)
Investigators: Hughes LE, **Miller KC**

Date: 2015
Amount: $3,500

25. **Title:** Cramp risk and neural excitability following volitionally-induced muscle cramps.
Funding Agency: Office of Research and Sponsored Programs Early Career Grant (CMU)
Investigators: Miller KC
Date: 2014-2016
Amount: $40,620

24. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: Department of Health, Nutrition, and Exercise Sciences
Investigators: Miller KC
Date: 2012
Amount: $8,467

23. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: College of Human Development and Education
Investigators: Miller KC
Date: 2012
Amount: $14,517

22. **Title:** Undergraduate Research Award
Funding Agency: College of Human Development and Education Dean's Office
Investigators: Miller KC
Date: 2012
Amount: $1,000

21. **Title:** Provost travel and research fund
Funding Agency: NDSU Provost's Office
Investigators: Miller KC
Date: 2011
Amount: $300

20. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: College of Human Development and Education
Investigators: Miller KC
Date: 2011
Amount: $4,617

19. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: College of Human Development and Education
Investigators: Miller KC
Date: 2011
Amount: $6,237

18. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: College of Human Development and Education
Investigators: Miller KC
Date: 2011

Amount: $2,309

17. **Title:** Request for Research and/or Teaching Laboratory Equipment
Funding Agency: College of Human Development and Education
Investigators: Miller KC
Date: 2011
Amount: $3,119

16. **Title:** Research equipment grant
Funding Agency: Experimental Program to Stimulate Research (EPSCoR)
Investigators: Miller KC
Date: 2011
Amount: $4,000

15. **Title:** Travel grant
Funding Agency: Research Activities and Technology Transfer (NDSU)
Investigators: Miller KC
Date: 2011
Amount: $300

14. **Title:** Research equipment grant
Funding Agency: Experimental Program to Stimulate Research (EPSCoR)
Investigators: Miller KC
Date: 2011
Amount: $3,500

13. **Title:** Travel grant
Funding Agency: Research Activities and Technology Transfer (NDSU)
Investigators: Miller KC
Date: 2010
Amount: $300

12**. Title:** Proposal for Professional Development
Funding Agency: President's Fund (NDSU)
Investigators: Miller KC
Date: 2009
Amount: $1,000

11. **Title:** Research mentoring grant
Funding Agency: Office of Research and Creative Activities (BYU)
Investigators: Miller KC
Date: 2008
Amount: $5,000

10. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2008
Amount: $3,300

9. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2008
Amount: $1,671

8. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2008
Amount: $1,671

7. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2008
Amount: $1,050

6. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2007
Amount: $3,200

5. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2007
Amount: $600

4. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2007
Amount: $472

3. **Title:** Research presentation award
Funding Agency: Office of Research and Creative Activities
Investigators: Miller KC
Date: 2007
Amount: $400

2. **Title:** Mary Lou Fulton Endowment Application
Funding Agency: Mary Lou Fulton Endowment
Investigators: Miller KC
Date: 2008
Amount: $2,258

1. **Title:** Graduate student research grant application
Funding Agency: Graduate student research grant program (UW-La Crosse)
Investigators: Miller KC
Date: 2005
Amount: $600

4. Submitted, but not Funded, Internal Grants and Contracts:

1. **Title:** Sweat and Nutrition Company
Funding Agency: Office of Research and Sponsored Programs
Investigators: Miller KC, Hildebrandt L, Strong O, Novak J
Date: 2017-2018
Amount: $49,004

2. **Title:** Student Government Capital Project
Funding Agency: Student Government Capital Projects (NDSU)
Investigators: Miller KC, Gange K
Date: 2011
Amount: $20,675

D. Scholarly / Creative Fellowships, Awards, Honors:

Awards:
1. Best Original Research. "American football uniforms cause failures on the heat tolerance test." 2020
NATA DeLoss Brubaker Student Writing Award
2. Most Distinguished Athletic Trainer Award. 2019
MI Athletic Trainers Society
3. Best Original Research Award. "Cooling rates of hyperthermic humans wearing American football uniforms when cold-water immersion is delayed." 2017
Great Lakes Athletic Trainer Association
4. Robert and Patty Hendrickson Faculty Development Award. 2012
North Dakota State University

Honors:
1. Nominated; National Distinction Award. 2018
National Athletic Trainers Association Young Professionals' Committee
2. Nominated; New Investigator Award. 2015 & 2016
National Athletic Trainers Association
3. Nominated; Faculty Excellence Exhibition. 2014
Central Michigan University
4. Nominated; Graduate student research mentoring award. 2012
North Dakota State University
5. Nominated; Emerging Researcher Award. 2011
North Dakota State University

E. Scholarly / Creative Professional Development Activities Attended:
1. 36th World Congress of Sports Medicine (FIMS) 2021
2. Canadian Athletic Therapists Association annual meeting 2017, 2019

3.	Great Lakes Athletic Trainers Association Symposium	2014-2018, 2020, 2022
4.	Michigan Athletic Trainers Society Symposium	2014-2019
5.	North Dakota Athletic Trainers' Association Symposium	2013
6.	American College of Sports Medicine Symposium	2009, 2016
7.	Rocky Mountain Athletic Trainers' Association Symposium	2006-2008, 2022
8.	National Athletic Trainers' Association Clinical Symposia and AT Expo	2005-2022
9.	Wisconsin Athletic Trainers' Association Symposium	2002

F. Media Recognition:

Print Media

1. Detwiler J. *Men's Health* magazine. December 29, 2020. Interview on muscle cramping. Article published in August 2021. https://www.menshealth.com/health/a36688533/muscle-cramp-reasons-treatments/
2. Stewart J. *Eatwell*. October 18, 2020 (article to be published March 2021). Interview on sweat losses and cramping.
3. Johnston J. Going solo on summer physical fitness. Interview on safe exercise parameters in the heat due to COVID-19. *CM-Life.* August 19, 2020. https://www.cmich.edu/news/article/pages/Summer-exercise-heat-COVID.aspx
4. Goodman C. Interview on pickle juice ingestion. *Sun Sentinel*. Dec 2, 2019. https://www.sun-sentinel.com/health/fl-ne-pickle-juice-health-20191203-keqd2qlnmbfr3pwlrvtkyngx4q-story.html
5. Pederson C. Interview on how CMU faculty help save lives from exertional heatstroke at Falmouth Road Race. *CM-Life*. September 16, 2019. http://www.cm-life.com/article/2019/09/faculty-saving-lives-at-road-race
6. Burroughs G. Interview on water intoxication in athletes. Is There Such a Thing as Drinking Too Much Water? *The Health Journal* (Virginia). May 28, 2019. https://www.thehealthjournals.com/water-intoxication/
7. Basu T. The Daily Beast. Interview on my pickle juice research in response to Tomi Lohren's tweet about pickles. March 8, 2019. https://www.thedailybeast.com/tomi-lahrens-pickle-juice-obsession-does-it-have-health-benefits?utm_source=mes&utm_campaign=our_cmu&utm_medium=email&utm_content=ITN-Faculty+member+fact-checks+Tomi+Lahren%27s+pickle+juice+claims&fbclid=IwAR087Pq9cTafKS6lUlNbH4V9JI_FpUl1xapiL3IRkzbF5zX_yUcTmAIXqJs
8. Dybis K. *Epicenter Magazine*. Interview on pickle juice and cramping research. February 4, 2019 .
9. Piatek G. CMU News and *The Morning Sun* (local newspaper). Interview on my pickle juice research and external contract with the Pickle Juice Company. January 4, 2019. https://cmich.ly/2QntW7o
10. Dean J. *The Takeout*. Interview on my pickle juice research. August 3, 2018.
11. Pope-Parker T. How to start running. *New York Times* Wellness blog. May 16, 2018. https://www.nytimes.com/guides/well/how-to-start-running?partner=applenews&ad-keywords=APPLEMOBILE&region=written_through&asset_id=100000005878825?utm_source=mes&utm_campaign=our_cmu&utm_medium=email&utm_content=ITN-How%20to%20start%20running%20(CMU%20faculty%20member%20Kevin%20Miller%20quoted)

12. CMU research on heat exhaustion could save lives. CMU News, July 6, 2017. https://www.cmich.edu/news/article/Pages/heat-exhaustion-football.aspx
13. Brown B. What will (and won't) help muscle cramps, according to research. Daily Burn. March 22, 2017. http://dailyburn.com/life/fitness/muscle-cramps-causes-treatment/
14. Simmons K. When drinking too much water can be deadly. CMU News. February 14, 2017. https://www.cmich.edu/news/article/Pages/sweat-testing-helps-hydrate-safely-improve-performance.aspx
15. Davis J. Can pickle juice really cure muscle cramps? *Runners Connect*. 2016. http://runnersconnect.net/running-nutrition-articles/pickle-juice-muscle-cramps/
16. Favis R. Introverts and exercise (or pickle juice, the elixir of life). Introvert Broadcasting Network. https://reynafavis.wordpress.com/
17. Cole J. Dr. Oz: The Good Life (magazine). 2016.
18. Tison M. *La Presse* (Canadian newspaper). March, 2016.
19. G. *New York Times* Wellness blog. October, 2015. http://well.blogs.nytimes.com/2015/10/13/ask-well-preventing-cramps-during-exercise-do-not-post/?_r=1
20. Reynolds G. *New York Times* Wellness blog. August, 2015. http://well.blogs.nytimes.com/2015/08/26/for-athletes-the-risk-of-too-much-water/?_r=2&module=ArrowsNav&contentCollection=health&action=keypress&region=FixedLeft&pgtype=Blogs
21. Thornton J. *Swimmer* Magazine. April, 2015.
22. Lacke S. *Triathlete*. February, 2015. http://triathlon.competitor.com/2015/02/nutrition/fact-fallacy-pickle-juice-sports-nutrition_112027
23. Rosner MH, Hew-Butler T, Fowkes-Godek S, et al. *USA Football*. November, 2014. http://usafootball.com/blogs/health-and-safety/post/9731/over-hydration-can-lead-to-hyponatremia-and-in-extreme-cases-death
24. Rosner MH, Hew-Butler T, Fowkes-Godek S, et al. *Training and Conditioning*. November, 2014. http://www.training-conditioning.com/2014/11/26/more_awareness_needed_for_eah/index.php
25. Weinberger H. *Outside Magazine*. January, 2015.
26. Ahmad ZM. Heat stroke research aims to bring CMU to national light. CM Life. http://www.cm-life.com/article/2014/09/heat-stroke-research-aims-to-bring-cmu-to-national-light. September 23, 2014.
27. Digmann D. Hitting Heat Stroke. *The Pulse* (Winter 2014).
28. Keith LA. CMU University Communications. http://media.cmich.edu/news/eight-tips-to-prevent-heat-stroke-in-athletes. August 27, 2014.
29. Witz B. *New York Times*. June 6, 2014. http://www.nytimes.com/2014/06/07/sports/basketball/lebron-james-and-air-conditioning-are-back-in-service-for-nba-finals.html?ref=sports&_r=0m
30. Shilton, AC. "Oh Cramp!" *Runner's World*. November, 2014.
19. Miller KC. *Brukner and Khan's Clinical Sports Medicine blog.* August 1, 2013.
31. http://www.clinicalsportsmedicine.com/determining-the-etiology-of-exercise-associated-muscle-cramping-new-evidence-comes-to-light-kevin-c-miller-phd-at-atc
32. Smith-Janssen K. *Women's Health Magazine*. October, 2013.
33. Miller KC. *www.MomsTeam.com*. July, 2013. Exercise-associated muscle cramps:
34. Debunking 5 myths. http://www.momsteam.com/muscle-cramps/exercise-associated-muscle-cramps-debunking-five-myths

35. Beresini E. *Outside Magazine*. February, 2013. Interview on cramp myths.
36. MDLinx.com. January, 2013. MDLinx is the world's most current index of articles that matter in the daily lives of physicians and other healthcare professionals.
37. http://www.mdlinx.com/internal-medicine/news-article.cfm/4352406
38. Liao S. *SELF* magazine. January, 2013.
39. Berlin J. *National Geographic*. 2013.
40. Hammond C. *BBC* (United Kingdom). May, 2012. http://www.bbc.com/future/story/20120430-are-cramps-due-to-lack-of-salt
41. Kahn M. *Outside Magazine.* November, 2011.
42. Dalek B. *Men's Health Magazine*. April, 2011.
43. Freedman L. *Food Network Magazine*. July/August, 2011.
44. Bean A. *Runner's World*. April, 2011. The Body Shop: Cramp Out.
45. Israelsen-Hartley S. Pickle juice doesn't cramp BYU football players' style. *Deseret*
46. *News* (UT). Aug 11, 2010. http://www.deseretnews.com/article/700055636/Pickle-juice-doesnt-cramp-BYU-football-players-style.html
47. Maffly B. BYU team proves pickle juice kills cramps, but how? *Salt Lake Tribune*. July 4, 2010.
48. Kitchen Sink Cures for Muscle Cramps. *The Independent* (United Kingdom).
49. http://www.independent.co.uk/life-style/health-and-families/kitchensink-cures-for-muscle-cramps-1996468.html
50. Taylor L. Drinking pickle juice relieves muscle cramps: study. *Toronto Star*. June 16,
51. 2010. http://www.healthzone.ca/health/newsfeatures/article/824336--drinking-pickle-juice-relieves-muscle-cramps-study
52. Muessig B. Suffering from muscle cramps? Pick pickle juice. *AOL News*. June 14, 2010.
53. Reynolds G. Phys Ed: Can pickle juice stop muscle cramping? *New York Times*. June 9,
54. 2010. http://well.blogs.nytimes.com/2010/06/09/phys-ed-can-pickle-juice-stop-muscle-cramps/?src=mv&ref=health.

Podcasts, TV shows, Radio

1. McCubbin A. *The Long Munch*. Australian nutritionist podcast interview on my research on muscle cramping. September 7, 2022.
2. Vishnyakova A. *Food: Alive and Dead.* Russian TV channel NTV. Interview on the effects of pickle juice ingestion on the body. November 21, 2019.
3. Jackson J. *The Sports Medicine Broadcast*. Podcast interview on neurology of muscle cramping. May 6, 2019.
4. https://www.facebook.com/sportsmedicinebroadcast/videos/2315790162076766/
5. Jackson J. *The Sports Medicine Broadcast*. Podcast interview on my muscle cramping research. April 9, 2019. https://www.facebook.com/sportsmedicinebroadcast/videos/645595399203996/
6. Martins G. Fuel the Pedal. *Pickle Juice and the Science Behind Muscle Cramping*. Podcast interview on my muscle cramping research. April 8, 2019. https://fuelthepedal.com/kevin-miller-phd-pickle-juice-and-the-science-behind-muscle-cramping/
7. Kuenze C, Donovan L. *Journal of Athletic Training* Podcast interview on one of my publications entitled "Cooling Rates of Hyperthermic Humans Wearing American Football Uniforms When Cold-Water Immersion is Delayed." January 22, 2019.
8. https://www.podbean.com/media/share/pb-t54kc-a54139?fbclid=IwAR0-UPW3C5EkQ2rb836vNGdvyaYxz-6YJXnaV7zR85cMYGQsE5TbKS3nROA

9. Thorp B. CMU Public Health. January 16, 2019. Radio interview on pickle juice research.
10. Galloway G. Channel 9&10 News (CBS affiliate). January 11, 2019. https://www.9and10news.com/2019/01/11/research-shows-pickle-juice-can-relieve-muscle-cramping/
11. Delarue M. France télévisions, "Le Doc du Dimanche" (translation: "The Sunday Documentary"). September 16, 2018. Documentary entitled 'Cornichon : l'agité du bocal' that discussed my research on pickle juice and cramping. Watched by over 1 million viewers each Sunday evening.
12. Kozak K. Hawaii Public Radio, "The Body Show." May 9, 2018. www.hawaiipublicradio.org
13. Thorp B. CMU Public Health. July 18, 2017. Radio interview on exertional heatstroke research.
14. KHOU11. Television interview with Jeremy Rogalski (Stephanie Kuzydym, producer) on my hyperthermia research. June 27, 2017.
15. *Science of Survival* (Outside Magazine Podcast) with Peter Frick-Wright. May 15, 2017. Radio interview on muscle cramping and hydration.
16. *Top of the Mind* with Julie Rose (BYU Radio). March 20, 2017. Radio interview on cramping research. http://www.byuradio.org/episode/b8be2511-126f-4b99-a212-da24b6bbe273/top-of-mind-with-julie-rose-world-event-the-pirate-next-door-creating-drinks-to-prevent-athlete-over-hydration?playhead=3126&autoplay=true
17. CMU Public Health. March 8, 2017. Radio interview on cramping research in athletes. and Själ (Swedish Radio). September 16, 2015. Radio interview on overhydration in athletes. http://t.sr.se/1Kxals5
18. *Top of the Mind* with Julie Rose (BYU Radio). August 31, 2015. Radio interview on over hydration in youth athletes. http://www.byuradio.org/episode/1ee20c83-5af2-46a6-bf4b-73393483e1a4/top-of-mind-with-julie-rose-new-orleans-military-families- medieval-feminism
19. SU TV News, channel 84. Oct 11, 2012. Television interview on recent research projects investigating the effects of pickle juice on muscle cramping.
20. *This Way Up* (Radio New Zealand). Radio interview on the effects of pickle juice on muscle cramps. Feb 22, 2011.
21. KVLY Television (Fargo, ND). Television interview on the effects of pickle juice on muscle cramps. June 28, 2010.
22. The Mike McFeely Show. KFGO 790 am. Radio interview on the effects of pickle juice on muscle cramps. June 14, 2010.

IV. SERVICE

A. Institutional

1. University:

1.	Institutional Review Board, Member (TXST)	2022-Present
2.	Academic Senate Athletics Committee, Chair (CMU)	2022
3.	Academic Senate Athletics Committee, Member (CMU)	2021-2022
4.	Sub-committee Chair, IRB Quality Control (CMU)	2017
5.	Honors Council, Member (CMU)	2016-2019
6.	President's and Provost's Award Committee, Member (CMU)	2015

7. Director of Development Search Committee, Member (CMU) 2015
8. Academic Integrity Committee, Member (CMU) 2014
9. Institutional Review Board, Member (CMU) 2014-2017
10. Institutional Review Board, Member (NDSU) 2012-2013

2. College:

1. Grade grievance committee, Chair (CMU) 2014, 2015-2016, 2019-2020
2. College of Health Professions Research Committee, Member (CMU) 2017-2022
3. SRMS Personnel Committee, Member (CMU) 2017-2022

3. Department/School:

1. Tenure Track Search Committee, Chair (CMU) 2020
2. Injury Care Center Coordinator Search Committee, Chair (CMU) 2019
3. Clinical Education Coordinator Search Committee, Chair (CMU) 2018-2019
4. Educational Programming for AT Internship Day, Chair (CMU) 2018-2022
5. Chair, Tracking Faculty Publication Committee (NDSU) 2012
6. Chair, Merit Pay Distribution Committee (NDSU) 2011-2012
7. Postdoctoral Fellow Selection Committee (NDSU) 2010-2012
8. PhD Curriculum Committee (NDSU) 2009-2011

B. Professional:

Editorial Board Service

1. *Journal of Athletic Training* 2016-Present
2. *Exercise Physiology* (a specialty of Frontiers in Physiology) 2016-Present
3. *Sport and Exercise Nutrition* (a specialty of Frontiers in Nutrition) 2018-Present
4. *Athletic Training and Sports Health Care* 2018-2022

Reviewer Service

1. Associate Editor, *Journal of Athletic Training* 2022-Present
2. *Frontiers in Medicine* journal
3. *ACSM Health and Fitness Journal*
4. *Experimental and Molecular Physiology*
5. *Sports Health: A Multidisciplinary Approach*
6. *Journal of Neurophysiology*
7. Guest Associate Editor, *Athl Train Sports Health Care* 2020
8. Guest Associate Editor, *Journal of Athletic Training* 2020
9. *European Journal of Applied Physiology*
10. *Military Medical Research*
11. *Journal of Strength and Conditioning Research*
12. *European Journal of Neurology*
13. *Prehospital Emergency Care*
14. *Exercise Physiology* (a specialty of Frontiers in Physiology)
15. *Athletic Training and Sports Health Care*
16. *American Journal of Preventative Medicine*

17. *Muscle and Nerve*
18. *Current Sports Medicine Reports*
19. *Journal of Sports Rehabilitation*
20. *Physician and Sports Medicine*
21. *Evidence-based Complementary and Alternative Medicine*
22. NATA Research and Education Foundation Grant Program 2009-Present
23. *Scandinavian Journal of Medicine and Science in Sports*
24. *Sports Medicine (Open)*
25. GLATA (district 4) free communications program 2017
26. *Journal of Athletic Enhancement*
27. *Journal of Pain Research*
28. *Journal of Foot and Ankle Research*
29. District 5 (MAATA) Free Communications Program Reviewer 2011-2013
30. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*
31. *Journal of Physiology*
32. *International Journal of Sports Medicine*
33. NATA Annual Symposium Special Topic Presentations
34. *Medicine and Science in Sports and Exercise*
35. *Journal of Sports Sciences*
36. *Journal of Athletic Training*

Athletic Training Committee Service

1. Medical Volunteer, Falmouth Road Race 2019, 2022
2. Appeals Panel, NATA Committee on Professional Ethics 2022
3. NATA Convention Program Committee, Chair of Interactive Lectures 2022-Present
4. NATA Convention Program Committee, Chair of Evidence-Based Practice sessions 2020-2021
5. Chair, Michigan Athletic Trainers' Society Research Assistance Committee 2018-2021
6. NATA Liaison to the Canadian Athletic Therapist Association 2018-2020
7. Sub-committee Chair, NATA International Speaker Program 2017-2020
8. NATA International Committee, Member 2016-2020
9. Korey Stringer Institute (KSI) Medical and Science Advisory Board, Member 2016-Present
10. Co-Chair, Michigan Athletic Trainers' Society Professional Education Committee 2015-2018
11. NATA Convention Program Committee, Chair of the Special Topics sessions 2012-2015
12. NATA Convention Program Committee, Chair of the Peer-to-Peer sessions 2012-2013
13. UW-Green Bay Student Athletic Trainers Association, Vice President 2003-2004
14. Drews/Neubauer Cross Country Invitational, Athletic Training Student 2004
15. UW-Green Bay Student Athletic Trainers Association, Secretary 2001-2003
16. Bellin Sports Medicine Let-it-fly Football Combine 2001-2002
17. Special Olympics, Green Bay 2001

C. Community:

1. President, Copper Estates Homeowners Association (Mt. Pleasant, MI) 2020-2023
2. Fireman's Picnic Volunteer (Greenleaf, WI) 2002-2012

3. CenterPoint Church Worship Team (Orem, UT)	2006-2009
4. St. Mark's Lutheran Church Worship Team (Green Bay, WI)	2001-2002
5. Usher, St. Mark's Lutheran Church (Green Bay, WI)	1998-2002

D. Organization Memberships:

1. Michigan Athletic Trainers Society (MATS)	2013-Present
2. Mid-America Athletic Trainers Association (MAATA)	2009-2013
3. National Athletic Trainers Association (NATA)	2002-Present
4. Phi Kappa Phi National Honors Society	2003-Present
5. Tribeta Biological National Honors Society	2003-Present
6. National Strength & Conditioning Association (NSCA)	2003-2011
7. American College of Sports Medicine (ACSM)	2008-2010
8. Rocky Mountain Athletic Trainers Association (RMATA)	2005-2009
9. Great Lakes Athletic Trainers Association (GLATA)	2001-2005, 2013-Present
10. Wisconsin Athletic Trainers Association	2001-2005

E. Service Honors and Awards: 0

F. Service Grants and Contracts: 0

1. Funded External Service Grants and Contracts: 0

2. Submitted, but not Funded, External Service Grants and Contracts: 0

3. Funded Internal Service Grants and Contracts: 0

4. Submitted, but not Funded, Internal Service Grants and Contracts: 0

G. Service Professional Development Activities Attended:

1. Canadian Athletic Therapists Association annual meeting	2017, 2019
2. Michigan Athletic Trainers Society Symposium	2014-2019
3. National Athletic Trainers' Association Clinical Symposia and AT Expo	2005-2022