

Cody Reed Smith

Post-Doctoral Research Associate
School of Natural Resources
University of Nebraska-Lincoln
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EDUCATION

- 2016 - 2019 Ph.D., Science Education
North Carolina State University, Raleigh, NC
Chair: Dr. Cesar Delgado
Dissertation: Exploring Sources of and Changes in Graduate Teaching Assistant
Teacher Efficacy Throughout a Semester: A Mixed Methods Study
- 2014 - 2016 M.S., Kinesiology
University of Arkansas, Fayetteville, AR
Mentor: Dr. Brendon P. McDermott
Thesis: Observing Renal Responses to Endurance Cycling in the Heat
- 2005 - 2009 B.S., Kinesiology
University of Arkansas, Fayetteville, AR

APPOINTMENTS

- 2019 - Post-Doctoral Research Associate
University of Nebraska-Lincoln
School of Natural Resources
Mentor: Dr. Jenny Dauer
- 2016 - 2019 Graduate Research and Teaching Assistant
North Carolina State University, Raleigh, NC
Friday Institute for Educational Innovation
Supervisor: Dr. Eric Wiebe
- 2014 - 2016 Graduate Research and Teaching Assistant
University of Arkansas, Fayetteville, AR
Human Performance Laboratory
Supervisor: Dr. Brendon P. McDermott

PUBLICATIONS

Smith C.R., Butts C.L., Adams J.D., Tucker M.A., Moyen N.E., Ganio M.S., McDermott B.P.
(2018). Effect of a novel cooling kit on perceptual, physiological, and performance
parameters following exercise in the heat. *Journal of Sport Rehabilitation*, 27, 413-418.

- McDermott B.P., **Smith C.R.**, Butts C.L., Caldwell A.R., Lee E.C., Vingren J.L., Munoz C.X., Williamson K.H., Ganio M.S., Armstrong L.A. (2018). Renal stress and kidney injury biomarkers in response to endurance cycling in the heat with and without ibuprofen. *Journal of Science and Medicine in Sport* 21(12), 1180-1184.
- Butts C.L., Spisla, D.L., Adams J.D., **Smith C.R.**, Paulsen K.M., Caldwell A.R., Ganio M.S., McDermott B.P. (2018). Effectiveness of ice-sheet cooling following exertional hyperthermia. *Military Medicine*, 182(9-10), e1951-e1957.
- Butts C.L., Torretta, M.L., **Smith C.R.**, Petway, A.J., McDermott, B.P. (2017). Effects of a phase change cooling garment during exercise in the heat. *European Journal of Sport Science*, 17(8): 1065-1073.
- Butts C.L., Luhring K.E., **Smith C.R.**, Tucker M.A., Moyan N.E., Ganio M.S., McDermott B.P. (2016). Effects of mild hypohydration on cooling during cold water immersion following exertional hyperthermia. *European Journal of Applied Physiology*, 116, 687-695.
- Butts C.L., **Smith C.R.**, Ganio M.S., McDermott B.P. (2016). Physiological and perceptual effects of a cooling garment during simulated industrial work in the heat. *Applied Ergonomics*, 59, 442-448.
- Luhring K.E., Butts C.L., **Smith C.R.**, Bonacci J.A., Ylanan R., McDermott B.P. (2016). Cooling effectiveness of modified cold-water immersion method following exercise induced hyperthermia. *Journal of Athletic Training*, 51(11), 946-951.

IN PREPARATION

- Smith, C.R.**, Delgado, C. (2019). Review of the literature on STEM graduate teaching assistant professional development and comparison to the K-12 PD literature.

CONFERENCE PROCEEDINGS

- Smith, C.**, Rachmatullah, A., Wiebe, E., Lord, T., Reichsman, F., Dorsey, C., Mott, B., Lester, J., Boulden, D. (2019). Assessing conceptual understanding of high school students with a digital educational genetics game. *European Science Education Research Association*.
- Rodríguez, F.J., Smith, C.R., Smith, A., Boyer, K.E., Wiebe, E.N., Mott, B.W., Lester, J.C. (2019). Toward a responsive interface to support novices in block-based programming. *Blocks & Beyond*.
- Emerson, A., Smith, A., **Smith, C.**, Rodriguez, F., Wiebe, E., Mott, B., Boyer, K., Lester, J. (2019). Predicting early and often: Predictive student modeling for block-based programming environments. *International Conference on Educational Data Mining*.
- Smith, C.R.**, Delgado, C. (2019). Applying a K-12 consensus model to science teaching assistant professional development. *National Association for Research in Science Teaching*.

- Akram, B., Smith, A., **Smith, C.**, Aksit, O., Wiebe, E.N., Lester, J.C. (2018). Computationally-enabled modeling environments: simulating epidemic diseases in science classrooms using block-based programming. *National Association for Research in Science Teaching*.
- Aksit, O., **Smith, C.** (2017). Geniventure: Explore genetics in your classroom through virtual dragons. *North Carolina Science Teachers Association*.
- Smith C.R.**, Butts C.L., McDermott B.P. (2015). 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.
- Butts C.L., McDermott B.P., **Smith C.R.** (2015). Physiological effects of a cooling garment during industrial-type work in the heat. *International Journal of Exercise Science: Conference Proceedings*, 11 (3), 67.
- Luhring K.E., Butts C.L., **Smith C.R.**, Bonacci J.A., Ylanan R., McDermott B.P. (2015). Cooling effectiveness of modified cold-water immersion method following exercise induced hyperthermia. *Journal of Athletic Training: Supplement*, 50(6), 59-60.
- Butts C.L., Luhring K.E., **Smith C.R.**, Burchfield J.M., Moyon N.E., Tucker M.A., Bonacci J.A., Ganio M.S., McDermott B.P. (2015). Effects of mild hypohydration on cooling during cold water immersion following exertional hyperthermia. *American College of Sports Medicine*.
- Smith C.R.**, Butts C.L., Adams J.D., Bonacci J.A., Ganio M.S., Moyon N.E., Tucker M.A., McDermott B.P. (2015). Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat. *American College of Sports Medicine*.
- Smith C.R.**, Butts C.L., Adams J.D., Bonacci J.A., Ganio M.S., Moyon N.E., Tucker M.A., McDermott B.P. (2014). 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.

PRESENTATIONS

- Smith, C.R.** (2019, May). *Applying a K-12 consensus model to science teaching assistant professional development*. Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.
- Smith, C.R.** (2018, April). *Exploring relationships between motive for attending a professional development workshop and teacher self-efficacy in science graduate teaching assistants: A proposal*. Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.

Smith, C.R. (2017, April). *Teaching practices and philosophies among physiology professors, how well do they match?* Poster presentation at the North Carolina State University STEM Education Graduate Research Symposium, Raleigh, NC.

Smith, C.R., Butts, C.L., McDermott, B.P. (2015, October). *Effects of a phase change cooling device on perceptual measures and work productivity while working in the heat.* Poster presentation at the Central States Chapter of the American College of Sports Medicine, Warrensburg, MO.

Smith, C.R., Butts, C.L., Adams, J.D., Bonnaci, J.A., Ganio, M.S., Moyen, N.E., Tucker, M.A., McDermott, B.P. (2015, May). *Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat.* Poster presentation at the American College of Sports Medicine, San Diego, CA.

Smith, C.R., Butts, C.L., Adams, J.D., Bonnaci, J.A., Ganio, M.S., Moyen, N.E., Tucker, M.A., McDermott, B.P. (2014, October). *Effect of a cooling vest on perceptual, physiological, and performance measures following exercise in the heat.* Poster presentation at the Central States Chapter of the American College of Sports Medicine, Overland Park, KS.

POST-SECONDARY TEACHING EXPERIENCE

2016 - 2017 Graduate Teaching Assistant
North Carolina State University, Raleigh, NC

Introduction to Research in Science Education, Spring 2017

Methods of Teaching Science I, Spring 2017

Instructional Materials in Science, Fall 2016

Technology Tools for Science Teaching, Fall 2016

Student Teacher Supervisor, Fall 2016

2015 - 2016 Graduate Teaching Assistant
University of Arkansas, Fayetteville, AR

Practicum in Laboratory Instrumentation, Spring 2016, Summer 2016

Internship in Exercise Science
Fall 2015, Spring 2016

Fitness Concepts, Spring 2015, Fall 2015

2013 Instructor
Surrey International Institute, Dalian, China

English Oral Skills

HONORS AND AWARDS

- 2019 Biology Teaching Assistant Project (BioTAP) Scholars Program
(Sponsored by the National Science Foundation)
- 2016 University Graduate Fellowship, North Carolina State University
- 2005 - 2009 Arkansas Challenge Scholarship, University of Arkansas
- 2005 Max S. Moody Memorial Scholarship, University of Arkansas

PROFESSIONAL EXPERIENCE

- 2014 Field Processor
McNaughton Realty - Fayetteville, AR
Assessed, listed, and managed real estate property
- 2010 - 2013 Customer Service Representative
Graybar Electric - Springdale, AR
Managed industrial customer accounts and orders. Communicated with customers, salespeople, and parts suppliers to ensure quick and accurate transactions. Utilized all available technology daily, including various computer software programs (SAP, Microsoft Office). Trained new employees and coworkers in computer and printing systems and product data

SKILLS

- Canvas, Blackboard, Moodle
- Qualtrics
- Microsoft Office (Word, Excel, Power Point, Outlook)
- Google Suites (Docs, Sheets, Slides)
- SPSS Statistics Software
- Block-based Programming: Scratch, Blockly, Cellular, Snap!
- Experience with Mac and PC
- SAP

CERTIFICATIONS

- Basics of Virtual Reality for Science Education

ORGANIZATIONS

- Biology Teaching Assistant Project (BioTAP, 2019)
- National Association for Research in Science Teaching (2017 – Present)
- North Carolina Science Teacher Association (2016 – Present)
- American College of Sports Medicine (2014 – 2016)

- Central States Chapter of The American College of Sports Medicine (2014 – 2016)

SERVICE

- Fred J. Carnegie Magnet Middle School Science Fair (*Spring 2019, Spring 2018*)
 - Served as a judge for science fair projects
- Centennial Campus Magnet Middle School Science Fair (*Spring 2018*)
 - Serves as a judge for science fair projects
- STEM Education Day, North Carolina State University (*Fall 2017*)
 - Led middle and high school students through computer programming activities