

Garen K. Anderson

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University of North Texas Health Science Center
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Education

- 2018 - Present** **PhD Student**, Department of Physiology & Anatomy, Graduate School of Biomedical Sciences, University of North Texas Health Science Center, Fort Worth TX
- 2016 - 2018** **Master of Science**, Medical Sciences Integrative Physiology Track, University of North Texas Health Science Center, Fort Worth TX
- 2013 - 2016** **Bachelor of Science in Neuroscience**, Brigham Young University, Provo UT
- 2010 - 2011** Utah State University, Logan UT, Mechanical Engineering Major

Research Experience

- 2018 - Present** **PhD Student**, Cardio- and Cerebrovascular Physiology Lab, Dr. Caroline A. Rickards, University of North Texas Health Science Center.
- 2017 - 2018** **Master's Student**, Cardio- and Cerebrovascular Physiology Lab, Dr. Caroline A. Rickards, University of North Texas Health Science Center.
- Pulsatile Perfusion Therapy: A novel approach for improving cerebral blood flow and oxygenation under simulated hemorrhagic stress
 - Inflammation and Oxidative Stress During Simulated Hemorrhage
- 2015 - 2016** **Undergraduate Student**, Diabetic Peripheral Neuropathy Lab, Dr. Alonzo Cook, Brigham Young University.
- Studied alternative treatments for diabetic peripheral neuropathy using local injections or a topical gel

Awards

- 2010** Presidential Scholarship Recipient, Utah State University

Professional Development

Journal Club – UNT Health Science Center

2017 - Present Integrative Physiology Human Labs Journal Club

2017 - Present Department of Physiology & Anatomy Journal Club

Seminars

2017 - Present Current Topics in Physiology

Workshops

2017 Grant Writing Workshop – Dr. Kurt H. Albertine

Teaching

2018 Physician Assistant Pre-matriculation Physiology workshop Center for Academic Performance

2017 Teaching Assistant Texas Academy of Biomedical Sciences Human Cardiovascular Physiology

Publications

Manuscripts

1. **Anderson GK**, Sprick JD, Park FS, Rickards CA. Responses of Cerebral Blood Velocity and Tissue Oxygenation to Low Frequency Oscillations during Simulated Hemorrhagic Stress in Humans. 2018. (Submitted)
2. Rosenberg AJ, Kay VL, **Anderson GA**, Sprick JD, Rickards CA. The Impact of Acute Central Hypovolemia on Cerebral Hemodynamics: Does Sex Matter? (in preparation)

Abstracts

1. **Anderson GK**, Park FS, Sprick JD, Rickards CA. Responses of cerebral blood flow and tissue oxygenation to low frequency oscillations during simulated hemorrhagic stress in humans. 2018. *Experimental Biology Meeting, San Diego, CA.*
2. Park FS, Kay VL, **Anderson GK**, Sprick JD, Rickards CA. Oxidative Stress During Simulated Hemorrhage Elicited by Lower Body Negative Pressure. 2018. *Experimental Biology Meeting, San Diego, CA.*
3. Rickards CA, Sprick JD, Park FS, Rosenberg AJ, **Anderson GK**. Cerebral blood velocity and oxygenation responses to hypovolemic oscillatory lower body negative pressure. 2018. *Cerebral Autoregulation Network (CARNet) meeting.*

Professional Memberships

2017 - Present American Physiological Society

2017 - Present Society for Experimental Biology and Medicine

Service

2017 Volunteer, PhUn Week (Physiological Understanding Week), University of North Texas Health Science Center Community Outreach for K-12 Students

Other Achievements

- Basic Life Support (BLS) certified, American Heart Association, June 2017