

# Audra Davidson



[www.audradavidson.com](http://www.audradavidson.com)

## Science communicator, teacher, and leader

As a natural-born leader with a passion for making science accessible, I am committed to learning and advancing valuable STEM skills in myself and others through collaborative research, mentorship, and group leadership

## Education

Georgia Institute of Technology  
Ph.D., Applied Physiology  
Atlanta, GA, USA ABD

M.S., Biology 2020  
Atlanta, GA, USA GPA: 4.0

University of Michigan  
B.S., Kinesiology 2016  
Ann Arbor, MI, USA GPA: 3.92  
Honors Program

## Contact

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## Hobbies

I enjoy hiking with my dogs, reading science fiction and fantasy novels, and tending to my plants. I have also been singing for over a decade, and am learning to play the guitar!

## Scientific Research

### Graduate Student Researcher *Comparative Neuromechanics Laboratory*

2016-Pres  
Atlanta, GA

- Developed a novel interdisciplinary research project investigating the relationship between cognition and movement, coordinating across four separate laboratories
- Conducted research, collected data, and collaborated with laboratories in fields as varied as computational cognition, neuroscience, and muscular physiology
- Received several presentation and poster awards for my ability to distill complex information from literature and scientific experiments for expert and non-expert audiences

### Undergraduate Student Researcher *Rehabilitation Biomechanics Laboratory*

2014-2016  
Ann Arbor, MI

- Worked with large, diverse groups of scientists, engineers, clinicians, and patients to investigate the efficacy of different prosthetic devices used by individuals with limb loss
- Conducted and completed an honors thesis investigating the relationship between clinical assessments and everyday activity of patients with lower extremity limb loss

## Science Communication

### College of Sciences Department of Communications *Science Communication and Inclusion Fellow*

2020-pres  
Atlanta, GA

- Interviewed scientists, read scientific literature, and worked with editors to write articles highlighting Georgia Tech's research and outreach efforts

### Science ATL Science Communication Fellowship *Science Communication Fellow*

2019-2020  
Atlanta, GA

- Trained in the fundamentals of writing narratives, understanding your audience, public speaking, and interviewing for the communication of science to nontechnical audiences
- Wrote, edited, and performed a personal story for performance with *The Story Collider*

### Promoting Applied Physiology Education and Research *President, Founder*

2018-Pres  
Atlanta, GA

- Founded PAPER as a science outreach and education group, generating ideas for creative events to increase interest and excitement about science for kids and adults
- Created visual and written materials (videos, interactive posters, demonstrations) disseminating complex scientific information in engaging ways for nontechnical audiences

## Publications

1. **Davidson A**, Gardinier E, Gates D. Within and between-day reliability of energetic cost measures during treadmill walking. *Cogent Engineering*, 2016. 3(1).
2. **Davidson A**. (2018, November). "When to Start Panicking About Killer Robots: How the Relationship Between Movement and Cognition is the Key to Advancing Artificial Intelligence," *Charged Magazine*.
3. **Davidson A**. (2019, April). "If I Only Had a...Spine? Why the Spinal Cord is More than Just A Cord," *Charged Magazine*.
4. **Davidson A**, Walden NE, Childers L, Chang YH. Increasing push-off power from a prosthetic ankle may not reduce collisional work in the intact limb during gait. In review.
5. **Davidson A**. (In review). "How Ink Evolved: The Science and Evolution of Permanent Body Art," *The Awesome Science of Everyday Life*, Science ATL.

## Technical Skills

Science writing & editing



Public speaking



Grant writing



Project management



Data analysis



Matlab



Microsoft Office Software



IRB Protocols



Adobe Illustrator

