Justin McCurdy

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EDUCATION

UNIVERSITY OF GEORGIA

Athens, GA

PhD in Neuroscience

Ongoing

- Elective specialization: Human motor behavior
- GPA: 3.6/4.0

OTTERBEIN UNIVERSITY

Westerville, OH

May 2019

Bachelor of Science in Zoo and Conservation Science

- Double Major: Biology
- GPA: 3.7/4.0
- Awards: Jean Willis Life Science Endowed Award, NCAA DIII Track & Field Academic All-American

RESEARCH EXPERIENCE

UNIVERSITY OF GEORGIA

Athens, GA

August 2020 - Present

- **Graduate Research Assistant** Identified a research question in the field of human motor behavior, developed a research plan and milestones, and am actively collecting data with a high degree of independence.
 - Developed soft skills of working with and overseeing a research team with broader goals, and communicating project needs to relevant administrative units.
 - Administered neurostimulation to humans within a research setting.
 - Designed rigorous data collection and processing software programs.
 - Research presented at:
 - o 2022 Society for the Neural Control of Movement Conference
 - o 2022 Brainbox Initiative Conference
 - o 2022 UGA NeuroSymposium

OTTERBEIN UNIVERISTY

Westerville, OH

August 2016 - May 2019

Undergraduate Research Assistant

- Developed and executed a series of biological experiments to study the impact of resource availability on tissue development.
- Designed a novel lab approach for delineating organic and inorganic matter development in anurans.
- Performed post-mortem measurements of brain tissue mass development.
- Oversaw care and collection of all live specimens.

TEACHING EXPERIENCE

UNIVERSITY OF GEORGIA

Athens, GA

Graduate Teaching Assistant (Biomechanics, Anatomy and Physiology)

August 2020 - Present

- Independently oversaw instruction of model-based and live dissection curriculum (Anatomy and Physiology).
- Led 30+ undergraduate students through physical (Biomechanics) laboratory experiments.
- Creation and proctoring of evaluation materials, including assignment of final grades.
- Average teaching evaluation score was over 90%.

OTTERBEIN UNIVERSITY

Westerville, OH

Undergraduate Teaching Assistant

August 2016 - May 2019

- Aided in preparation of course materials.
- Hosted material review sessions for students prior to exams.

OTTERBEIN UNIVERSITY

Westerville, OH

Aquatics Lab Manager

August 2016 – May 2019

- Managed the care and maintenance of marine science lab.
- Trained a small group of volunteers in aquaculture every semester.

RACINE ZOOLOGICAL SOCIETY

Racine, WI

Seasonal Animal Husbandry Specialist

May 2016 – August 2016

- Provided husbandry and implemented behavioral training techniques for a variety of exotic species.
- Daily community engagement and public speaking opportunities through education and outreach programs.

DIAMOND M VETERINARY CLINIC

Kenton, OH

Vet Assistant

May 2017 – August 2018

- Experience performing a wide range of veterinary medical procedures in both domestic and exotic animals.
- Exposure to biomedical lab sample preparation in both clinical and field work settings.
- Health communication skills with both clinic staff and patient populations.

TECHNICAL SKILLS

Programming/Software:

- 3+ years' experience with **MATLAB** in various academic and research projects for signal processing, electromyographic event identification, and general visuomotor task design.
- Intermediate level programming skills in **Rstudio** and **Python**, mainly using **Psychopy® software**.
- 4+ years' experience with Pandas, a Python package, for data analysis and machine learning.
- Publication standard statistical analysis and data visualization using RStudio.

Electronics Design and Hardware:

- Analog and digital circuit integration for the operation of sensorimotor experiments.
- Hands on experience designing experiments that combine electromyographic (EMG), motion capture (MOCAP), neurostimulation (TMS), and neuroimaging (fNIRS/fMRI) techniques.

Neurostimulation:

- Advanced training in the application of Transcranial Magnetic Stimulation (TMS) in both human research and clinical settings.
- Moderate experience with combinatory use of TMS with peripheral nerve stimulation (pNS) techniques.
- Integration of robotic kinesiological instrument for normal and altered reaching movement (KINARM) with TMS.

RELATED COURSEWORK

 Anatomy and Physiology I & II 	2014
 Molecular Biology 	2015
 Organismal Biology and Ecology 	2016
 Comparative Vertebrate Anatomy 	2018
 Animal Reproduction 	2018
 Biochemistry I: Biomolecules and Metabolism 	2018
 Cellular Biology 	2019
 Neuroanatomy 	2021
 Neurophysiology 	2021
 Bases of Human Motor Control 	2022
 Statistical Methods in Experimental Psychology 	2022

CERTIFICATES AND MEMBERSHIPS

- Founding Member of Otterbein's Animal Conservation Club
- Phi Eta Sigma Honors Society
- CPR/AED Certified
- National Center of Neuromodulation's Advanced TMS for Rehabilitation Workshop
- KINARM Design Camp
- Neuromatch Academy Techniques in Computational Neuroscience Workshop