

Elijah Sterling

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Educational

University of Georgia, Athens, GA

Present-May 2027 (Expected)

Ph.D. Neuroscience

Primary Investigator: Dr. Yao Yao

Emory University, Emory College of Arts and Sciences, Atlanta, GA

May 2022

B.S. Neuroscience & Behavioral Biology/Anthropology & Human Biology

Magna Cum Laudae

Research Experience

University of Georgia, Athens, GA

January 2023-Present

Graduate Research Assistant

Supervisor: Dr. Yao Yao

- Analyze sequencing data of fibro/adipogenic progenitor cells among other cell types.
- Develop high throughput screen platform to assess mechanisms of extracellular vesicle (EV) uptake of HEK293T cell derived EVs into HEK293T cells among other cell types.
- Isolate extracellular vesicles from plants (*Arabidopsis thaliana*) and perform novel experiments to identify and characterize mechanisms and attributes.

University of Georgia, Athens, GA

August 2022-December 2022

Graduate Research Assistant,

Integrated Life Sciences

- 1st rotation with Dr. Yao Yao, focus on isolation of extracellular vesicles from fibro/adipogenic progenitor cells relevant to Amyotrophic Lateral Sclerosis (ALS) using centrifugation and filtration techniques.
- 2nd rotation with Dr. Assaf Oshri, focus on understanding mechanisms of psychopathology development in adolescents using combination of survey and neuroimaging technologies.
- 3rd rotation with Dr. Jing Xu, focus on characterizing neurobiological differences between stroke patients and healthy controls using Diffusion Susceptibility Imaging.

Emory University School of Medicine, Atlanta, GA

December 2020-May 2022

Undergraduate Researcher, The Fleischer Biomedical Spectroscopy and Imaging Laboratory,

Supervisor: Dr. Candace Fleischer

- Conducted independent research for an exploratory project investigating the reported rates of demographic traits of human participants in neuroimaging studies.
- Developed protocols concerning statistical software usage (SPSS) as well as data collection for research project.

Emory University College of Arts and Sciences, Atlanta, GA

May 2021-August 2021

Summer Undergraduate Research Experience (REU) Undergraduate Researcher, The Fleischer Biomedical Spectroscopy and Imaging Laboratory, Supervisor: Dr. Candace Fleischer

- Conducted a student-led study investigating a topic of interest relating to neuroscience.
- Presented culmination of summer research experience in a symposium with a poster session.

Poster Sessions

Sterling, Elijah; Hannah, Pearl; Liu, Zexuan; Allen, Jason W.; Fleischer, Candace C. "Demographic reporting across a decade of neuroimaging: a systematic review." Biomedical Engineering Society Annual Meeting. (Poster Presentation), October 2022.

Sterling, Elijah; Pearl, Hannah; Liu, Zexuan; Fleischer, Candace C. "A Decade of Demographic Reporting in Neuroimaging Studies". Emory Neuroscience & Behavioral Biology/Biology Honors Symposium. (Poster Presentation) May 2022.

Sterling, Elijah; Pearl, Hannah; Fleischer, Candace C. "A Decade of Demographic Reporting in Neuroimaging Studies". Emory Summer Undergraduate Research Experience. (Poster Presentation) August 2021.

Oral Presentations

Sterling, Elijah. "Social Media in Academia", The Fleischer Lab Retreat. (Guest Lecture) June 2022.

Sterling, Elijah. "A Decade of Demographic Reporting in Neuroimaging Studies". Emory Undergraduate Honors Thesis Defense. (Oral Presentation) April 2022.

Sterling, Elijah. "Evolution of Ancient Dogs". ANT 315 Human Evolution/Adaptation, (Guest Lecture) April 2022.

Publications

Sterling, Elijah; Pearl, Hannah; Liu, Zexuan; Allen, Jason W.; Fleischer, Candace C. "Demographic reporting across a decade of neuroimaging: a systematic review." *Brain Imaging and Behavior* (2022): 1-22

Funding

University of Georgia Graduate 2023 School Summer Research Grant
\$1,500.00

Honors

Magna Cum Laudae (Emory University, Neuroscience & Behavioral Biology)

May 2022

Lambda Alpha Honor Society (Beta of Georgia, Emory University, Anthropology) May 2022
Dean's List December 2021

Professional Memberships

Biomedical Engineer Society

Work Experience

Center for Ethics, Emory University October 2021-May 2022

- Responsible for quality assurance among the website, helping to curate job postings for professors and post-docs, and contacting alumni of various Ethics programs.

Communication Center, Emory University Office of Undergraduate Admission October 2018-May 2021

- Member of the Communication Center and helped processed 1,000s of phone calls and e-mails pertaining to the application process for perspective students.

Volunteer/Extracurricular Experience

Regenerative Bioscience Graduate Student Association (RBC GSA) May 2023-Present
Vice President

- Assist in the planning and execution of RBC GSA events ranging from education activities, community outreach, and fundraising.
- Delegate responsibilities to executive board members and general members of the association.

Atlanta Pediatric Cancer Outreach (APCO) August 2018-May 2022

- Member of the fundraising committee. Aided in the planning phase for various fundraising campaigns meant to generate donations towards APCO partners, such as the Children's Hospital of Atlanta.
- Through multiple fundraising events, assisted to help raise over \$2,000.

PAWSitive Outreach August 2018-March 2020

- Visit local no-kill animal shelters and aid in the socialization of dozens of dogs and cats.