

EDUCATION

Emory University, Laney Graduate School <i>Doctor of Philosophy, Neuroscience</i> Cumulative GPA: 4.0/4.0 Focus Areas: Data Science for Neuroscientists, Statistical Modeling, Signals Processing Honors & Awards: NIH Training Grant (T32), Integrative Neuroscience, 2024–2025	Atlanta, GA Expected May 2027
Emory University, Emory College of Arts and Sciences <i>Bachelor of Science, Biology; Bachelor of Arts, Chemistry</i> Cumulative GPA: 3.8/4.0, <i>Summa Cum Laude</i>	Atlanta, GA May 2020

WORK EXPERIENCE

Emory University, School of Medicine <i>Graduate Researcher, Systems Neuroscience</i>	Atlanta, GA 2023 – Present
<ul style="list-style-type: none">Build and maintain end-to-end data analysis workflows in Python and R, including data cleaning, feature extraction, statistical analysis, and visualizationWrite substantial custom Python code to process large, noisy time-series datasets and automate analysis pipelines tied to real-world data acquisition systemsApply statistical modeling and exploratory data analysis (e.g., regression, generalized linear models) to compare conditions and identify meaningful patterns across large datasetsAnalyze high-dimensional human- and animal-derived gene expression datasets in R using modern data science tools for quality control, clustering, differential analysis, and summary reportingPartner with cross-functional teams to integrate metadata, ensure reproducible analyses, and communicate results clearly to audiences without technical or domain expertise	
<i>Graduate Teaching Assistant, Introduction to Neurobiology</i>	2024
<ul style="list-style-type: none">Explained complex technical concepts to diverse audiences through presentations and hands-on demonstrationsLed problem-solving sessions emphasizing quantitative reasoning and data interpretationDelivered an independent lecture on spinal reflexes, incorporating live EMG demonstrations	
<i>Lead Research Specialist, Department of Cell Biology</i>	2020 – 2023
<ul style="list-style-type: none">Led quantitative analysis for multiple projects involving imaging, electrophysiology, and molecular datasetsBuilt and maintained reusable analysis scripts in Python and MATLAB to support team-wide data processingManaged complex experimental datasets and ensured data integrity across long-running projectsMentored junior researchers on data analysis best practices and interpretation of results	

TECHNICAL SKILLS

Programming & Data Analysis: Python (pandas, NumPy, matplotlib, scikit-learn), R (tidyverse, statistical modeling), MATLAB, Git, Jupyter, Excel, SQL, Tableau
Statistics & Modeling: Exploratory data analysis, GLMs, regression, hypothesis testing, time-series/signal analysis
Data Workflows: Data cleaning, QC; version-controlled scripts for automated, reproducible analysis pipelines
Domain Experience: Large experimental datasets, noisy real-world data, quantitative modeling

ADDITIONAL INFORMATION

Publications: Peer-reviewed publications in <i>eLife</i> and <i>FEMS Microbiology Ecology</i> (Google Scholar)
Other Skills: Spanish; technical communication; presenting analytical results to non-technical audiences
Interests: Cooking, Gardening, Aviation, Travel, Guitar