

Education

University of Michigan, School of Information

Master of Science (MS) in Information, Big Data Analytics Track

Ann Arbor, MI

Expected May 2025

- Course Highlights: Data Analytics, Databases, Web Design, Programming & Data Structure, User Experience, Human-Computer Interaction, Game Theory

University of Michigan, School of Literature, Science, Arts

Bachelor of Science (BS) Neuroscience, Applied Statistics, GPA: 3.56/4.00

Ann Arbor, MI

Class of 2023

- Awards/Honors: University Honors (3 semesters), James B. Angell Scholar (2022)

Experience

Cai Lab

Assistant Researcher

Ann Arbor, MI

May 2023-present

- Spearheaded an initiative to streamline the genotyping process for research animals using Transnetyx Colony. Performed database migration and improved data integrity with schema improvements and database triggers. Resulted in >50% time saved for data entry and management of mice colonies, and reduced error rate by 10%.
- Conducted genotyping experiments using PCR techniques to analyze the genetic profiles of laboratory mice. Performed PCR decomposition and regression on the different genetic markers and profiles of mice, with a working paper for *Journal of Neurophysiology*.

University of Michigan, School of Information

Graduate Student Instructor

Ann Arbor, MI

Aug 2023-present

- Lead biweekly discussion sessions for an introduction to Python programming class attended by 25+ undergraduate students—topics include type casting, data structures, and object-oriented programming.
- Designed and delivered lectures and hands-on coding exercises to enhance student's learning. Led office hours to further assist students to provide clarifications and foster a collaborative learning environment.

Pal Lab

Assistant Researcher

Ann Arbor, MI

May 2021-May 2023

- Analyzed animal EEG data in Matlab and performed time series spectral density analysis and used signal-processing techniques to process data, identify data noise, and enable future research.
- Designed a data visualization dashboard in Tableau to present results effectively to a research team of over 50 members.

MedLaunch

"Protect Our Smile" Clear Mask Initiative

Ann Arbor, MI

Sept 2021-Aug 2022

- Created a clear face mask that is more functional, accessible, and affordable than its market competitors to assist the Deaf community in communication throughout the COVID-19 pandemic—our design achieves almost 100% visibility of the wearer's face.
- Improved fit of the mask, added a novel removable window for washability, created a roll-out manufacturing plan, and created a team website to connect volunteer sewists with those in need of masks.
- Led an online sewing event "Sew-a-thon" to recruit volunteers to create and advertise our product.

Skills

Technical Skills: Python, Pandas, Seaborn, Matplotlib, Numpy, Matlab, R Studio, SQL, HTML, HCI

Languages: English (Native), Mandarin(Native), Latin (read, and write)

Interests: Fencing, Piano, Guitar, Skiing