Xinyue (Sherry) An

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EDUCATION

Northwestern University   Sep 2022 – Present
Ph.D. student in Neuroscience

Emory University   Aug 2019 – Jun 2022
B.S. Neuroscience & Behavioral Biology (summa cum laude), B.A. Computer Science

University of California, San Diego   Sep 2018 – Jun 2019

RESEARCH EXPERIENCES

Northwestern University, Glaser Lab   Chicago, IL
Principal Investigator: Joshua I. Glaser, Ph.D.   June 2023 – Present

Emory University, Berman Lab   Atlanta, GA
Principal Investigator: Gordon J. Berman, Ph.D.   May 2021 – Jun 2022
Honors Thesis: Using deep-learning based approaches to quantify Drosophila behaviors.
- Presented a video analysis pipeline that incorporates an animal pose tracking tool, an autoencoder, and a dimensionality reduction technique to identify *Drosophila* behaviors in an unsupervised manner and characterize the optogenetic activation phenotypes of descending neurons.

Enhanced Learning and Instructional Technologies at Emory (ELITE)   Atlanta, GA
Principal Investigator: Davide Fossati, Ph.D.   Aug 2020 – Jun 2022
Research Topic: Automatic assessment of Turtle graphics with vector approach.
- Developed a java automated assessment tool for vector images (Turtle graphics) that quantifies and highlights differences between student answers and the answer key and is readily employed as an auto-grader in introductory computer science courses.

PREPRINTS

Zimnik AJ, Cora Ames K, **An X**, Driscoll L, Lara AH, Russo AA, Susoy V, Cunningham JP, Paninski L, Churchland MM, Glaser JI (2024). "Identifying interpretable latent factors with Sparse Component Analysis." *bioRxiv*.

CONFERENCE ABSTRACTS

An X, Chowdhury RH, Glaser JI (2024). "Dissociation of efference copy and afferent feedback signals in somatosensory cortex." *Computational and Systems Neuroscience (Cosyne).*

TALKS & POSTERS

Dissociation of efference copy and afferent feedback signals in somatosensory cortex   2024
Poster, Computational and Systems Neuroscience (Cosyne)
Kinematic analysis of climbing initiations using limb tracking   2023
Poster, NUIN Admissions Poster Session, Northwestern
Using deep-learning based approaches to quantify Drosophila behaviors   2022
Talk, Undergraduate Research Symposium, Emory

HONORS & AWARDS

Highest Honors Thesis in Neuroscience and Behavioral Biology, Emory   2022
Revelle College Provost Honors, UCSD   2019

TEACHING

Teaching Assistant, Fundamentals of Neuroscience, Northwestern   Winter, 2024
Teaching Assistant, Molecular and Cellular Processes Laboratory, Northwestern   Fall, 2023
Teaching Assistant, Artificial Intelligence, Emory   Spring, 2022

EXTRACURRICULAR ACTIVITIES

Emory Undergraduate Journal Club, presenter	2021 - 2022
Emory International Pre-health Association, mentor	2021 - 2022
UCSD Medical Literature Society, columnist	2018 - 2019

SKILLS

Programming: Python, MATLAB, Java, R, C
Language: English (bilingual proficiency), Chinese (native), Korean (elementary)