

Xinyue (Sherry) An

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EDUCATION

Northwestern University Ph.D. candidate in Neuroscience	Sep 2022 – Present
Emory University B.S. Neuroscience & Behavioral Biology (summa cum laude), B.A. Computer Science	Aug 2019 – Jun 2022
University of California, San Diego	Sep 2018 – Jun 2019

RESEARCH EXPERIENCES

Northwestern University, Glaser Lab Principal Investigator: Joshua I. Glaser, Ph.D.	Chicago, IL June 2023 – Present
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Emory University, Berman Lab Principal Investigator: Gordon J. Berman, Ph.D.	Atlanta, GA May 2021 – Jun 2022
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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) Principal Investigator: Davide Fossati, Ph.D.	Atlanta, GA Aug 2020 – Jun 2022
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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, that 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, Blum KP, Miller LE, Glaser JI (2025). "Integration of corollary discharge and sensory feedback signals in somatosensory cortex." *Computational and Systems Neuroscience (Cosyne)*.

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 (by project)

<i>Integration of corollary discharge and sensory feedback signals in somatosensory cortex</i>	
Talk, Computational and Systems Neuroscience (Cosyne)	2025
Talk, Computational Neuroscience Club, Northwestern	2025
Poster, Society for Neuroscience (SfN)	2024
Talk, Chicago Sensorimotor Consortium	2024
Poster, Computational and Systems Neuroscience (Cosyne)	2024
<i>Kinematic analysis of climbing initiations using limb tracking</i>	
Poster, NUIN Admissions Poster Session, Northwestern	2023
<i>Using deep-learning based approaches to quantify <i>Drosophila</i> behaviors</i>	
Talk, Undergraduate Research Symposium, Emory	2022

HONORS & AWARDS

Cosyne Presenters Travel Grant	2025
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

SKILLS

Programming: Python, MATLAB, Java, R, C

Language: English (bilingual proficiency), Chinese (native), Korean (elementary)