

Xinyue (Sherry) An

Address: 320 E. Superior Street, Chicago, IL

Tel: (404) 226-1336

Email: xinyue.an@northwestern.edu

EDUCATION

Northwestern University Ph.D. student 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 Human Biology major	Sep 2018 – Jun 2019

RESEARCH EXPERIENCES

Northwestern University, Glaser Lab Principal Investigator: Dr. Joshua I. Glaser	Chicago, IL June 2023 – Present
Emory University, Berman Lab Principal Investigator: Dr. Gordon J. Berman	Atlanta, GA May 2021 – Jun 2022
<u>Honors Thesis Topic: Using Deep-Learning Based Approaches to Quantify Drosophila Behaviors.</u> <ul style="list-style-type: none">Presented a video analysis pipeline that incorporates an animal pose tracking tool (SLEAP), an autoencoder, and a dimensionality reduction technique (t-SNE) to identify <i>Drosophila</i> behaviors in an unsupervised manner and characterize the optogenetic activation phenotypes of descending neurons.	
Enhanced Learning and Instructional Technologies at Emory (ELITE) Principal Investigator: Dr. Davide Fossati	Atlanta, GA Aug 2020 – Jun 2022
<u>Research Topic: Automatic Assessment of Turtle Graphics with Vector Approach.</u> <ul style="list-style-type: none">Developed a java automated assessment tool for vector images (Turtle graphics) that quantifies and highlights any differences between student answers and the answer key and is readily employed as an auto-grader in Emory introductory Computer Science courses.	

HONORS & AWARDS

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

TALKS & POSTERS

<i>Kinematic Analysis of Climbing Initiations Using Limb Tracking</i>	2022
Poster Presentation, NUIN Admissions Poster Session, Northwestern	
<i>Using Deep-Learning Based Approaches to Quantify Drosophila Behaviors</i>	2022
Oral Presentation, Undergraduate Research Symposium, Emory	

TEACHING

Teaching Assistant, Fundamentals of Neuroscience, Northwestern	Winter, 2023
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, R, Java, C
Language: English (bilingual proficiency), Chinese (native), Korean (elementary)