

# MASON ZHANG

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## Academics

Brown University - 4.0 GPA

Providence, RI

Sc.B. in Computer Science and A.B. in Philosophy (2021-2025)

Amity Regional High School - 3.99 GPA, SAT: 1540

Woodbridge, CT

## Honors and Awards

2021: 2nd Place Environmental Science at CSEF, Graduation Speaker Nominee, Horatio Alger State Scholar, CT Delegate to the National Youth Science Camp, Pfizer Life Science Award Medalist, Matriculate High School Fellow  
2020: CT Scholastic Critical Essay Contest Honorable Mention, JFK Profiles in Courage Essay Contest Top 10% Essay, AP Scholar with Distinction

Relevant Coursework: Object-Oriented Programming, Linear Algebra, Data Structures, Computer Systems, Honors Statistical Inference

## Leadership and Project Management

### **Brown Computer Science Department**

Teaching Assistant for Data Structures and Algorithms (May 2022-Present) | 10 hrs/week

- Developed course projects (decision trees, graphs, recursion, dynamic programming, etc.), held weekly lab sections and office hours, and graded assignments written in Python and Java

### **Brown Office of University Communication**

Web and Digital Assistant (May 2022-Present) | 20 hrs/week

- Delivered and implemented high-quality, user-centric websites (front-end) for the Graduate and Medical School through UI/UX design, information architecture, and Drupal Cloud

### **Hack@Brown**

Developer Team Member (Aug 2021-Mar 2022) | 5 hrs/week

- Utilized Typescript, HTML, and CSS for front-end website development for the annual hackathon

### **Watson Institute Fall Study Group**

Public Policy Debater (Sep-Nov 2021) | 2.5 hrs/week

- Applied the problem-solving paradigm to a host of relevant policy issues in a selective seminar instructed by Tom Perez, DNC Chairman and 26th Secretary of Labor

### **Assistant Professor Steven P. Brady's Lab at Southern Connecticut State University**

Research Assistant (2018-2021) | 4 hrs/week

- Performed extensive data analysis with R using packages like ggplot2 and tidyverse
- Co-authored a paper accepted for publication to the top biodiversity journal *Freshwater Biology* on how pollutants impact wood frog physiology, featured on NBC News and Nature
- Created deep neural networks via DeepLabCut in Python to track tadpole swim velocity with AI

## Community Outreach

Brown Tutoring Corps Member (2021-present) | 4 hrs/week

- Tutored local high schoolers in Algebra I and various foundational mathematical concepts

West Haven VA Hospital Volunteer (2019-2020) | 2 hrs/week

- Manned the front desk, managed visitor records, and carried out administrative duties
- Fundraised \$4000 for cancer research as an active member of a local Relay for Life student group

## Skills:

Proficiency in Python, Java, C, ImageJ, and R | Fluency in Mandarin (Writing/Speaking)

## Interests:

AI Robotics Ethics Society E-Board (2022-present) | 3 hrs/week

Brown Wind Symphony Flutist (2021-present) | 3 hrs/week

Ensemble! Pit Orchestra Keyboard (2021-22) Solo Flute (2020-21) | 10 hrs/week

Starting Doubles Varsity Tennis Player (2018-2021) | 5 hrs/week