

MASON ZHANG

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Academics

Brown University - 4.0 GPA | Sc.B. in Computer Science and A.B. in Philosophy (2021-25)
Amity Regional High School - 3.99 GPA UW | SAT: 1540, 770 RW/770 M

Providence, RI
Woodbridge, CT

Honors and Awards

2021: 2nd Place Environmental Science at CSEF, Horatio Alger State Scholar, Graduation Speaker Nominee,
CT Delegate to the National Youth Science Camp, All-State Concert Band Ensemblist, 2nd Place Environmental
CT-STEM Fair, Pfizer Life Sciences Award Medalist, Matriculate Fellow

2020: CT Scholastic Critical Essay Contest Honorable Mention, JFK Profiles in Courage Essay Contest Top 10% Essay,
AP Scholar with Distinction, Saint Michael's Book Award

Relevant Coursework: Introduction to Object-Oriented Programming, BC Calculus

Leadership and Project Management

Watson Institute Fall Study Group

Public Policy Debater (Sep-Nov 2021) | 2 hrs/week

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

Hack@Brown Developer Team (2021) | 2 hrs/week

- Utilized React, Typescript, and CSS for front and back-end website development

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

High School Research Assistant (2018-2021) | 3.5 hrs/week

- Designed 3 research projects and posters on how salt contamination impacts wood frog survival
- Performed extensive data analysis with R using packages like ggplot2 and tidyverse
- Collected data on 600 wood frog edema samples in aid of a graduate student's thesis
- Edited manuscripts and co-authored a paper submitted to the top biodiversity journal *Global Change Biology* on how pollutants impact wood frog physiology
- Created deep neural networks via DeepLabCut in Python to track tadpole swim velocity with AI
- Used Computer Vision from Microsoft Azure to autonomously classify frog gamete image data

Language Immersion Network Senior Volunteer Teacher, First of CT Chapter

Remote Tutor (2018-2021) | 2.5 hrs/week

- Taught English weekly to classes of K-12 students from underprivileged demographics in China
- Supervised operations in Connecticut, recruited and coached a dozen new tutors
- Created lesson curriculum/guided readings and promoted local involvement with social media

Community Outreach

West Haven VA Hospital

Volunteer (2019-2020) | 2 hrs/week

- Manned the front desk, managed visitor records, and carried out administrative duties
- Transported patients in need of assistance to medical professionals and appointments as notified
- Fundraised \$4000 for cancer research as an active member of a local Relay for Life student group

Wave Learning Festival Seminar Instructor (Summer 2021) | 5 hrs/week

- Taught ancient Greek philosophy and normative ethics to dozens of students

Skills:

Languages: Proficiency in programming languages Python, Java, and R | Fluency in Mandarin (Writing/Speaking)

Other:

NMS Symphonic Wind Ensemble Principal Chair, 2019-2020 | 3 hrs/week

Amity Theater Pit Orchestra 1st Flute (2020-2021), Keyboard (2019) | 4 hrs/week in Spring

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