

Amy Qiao

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EDUCATION

Brown University, Sc.B. in Mathematics & Computer Science, GPA: 4.0/4.0

Anticipated Graduation: May 2026

- **Relevant courses:** Linear Algebra, Multivariable Calculus, Abstract Algebra, Differential Geometry, Analysis I, Discrete Structures and Probability, Statistical Inference I, Data Structures and Algorithms, Computer Systems, Deep Learning, Computer Systems Security
- **Extracurriculars:** Teaching Assistant for Discrete Structures and Probability, Research Assistant in Biostatistics, Brown Political Review Data Board, Quantum Computing @ Brown, Brown Journal of Philosophy, Politics, & Economics, Brown Figure Skating Club

Vel Phillips Memorial High School, GPA: 4.0/4.0

September 2018 - June 2022

- **Extracurriculars:** Sword & Shield Newspaper, Gender Equity Association, Menstrual Equity Committee, Congressional Debate, Math Team
- **Honors:** 2021 Wisconsin State Math Contest All-State 1st Team, National Merit Scholarship Finalist, Girls on the Run Alumni Scholarship

TECHNICAL EXPERIENCE

Course Programming Projects

January 2023 - Present

- Implemented BFS, DFS, & Dijkstra's in Python to find optimal path in graph interpreted from imported .csv dataset
- Created maze generator & solver in C using random walk & DFS
- Designed convolutional neural network model in Tensorflow to detect & classify lung cancer in images of CT scans
- Programmed recreation of Pacman in Java & implemented BFS as path-finding algorithm

Brown Political Review, Data Associate & Editor

February 2023 - Present

- Computed age, gender, & race demographics of all US districts using datasets from US Census Bureau
- Wrote data-driven articles with original data analysis on Right-to-Work laws & relationship between free trade & global obesity rates
- Researched public opinion on policy issues & developed data visualizations using DataWrapper & Flourish

Dream Tank, Impact Analyst Intern

January 2024

- Developed data visualizations using Data Wrapper & created data & research report for pitch event
- Edited promotional video for upcoming summer program & presented at pitch event of 20+ investors & attendees

Brown-RISD Game Developers, Programmer

February 2023 - May 2023

- Implemented automated speed, camera movement, & UI features using Unreal Engine
- Collaborated with artists & programmers to develop original, first-person video game

Foster America Intern

January 2023

- Refined raw data set of donations from past 6 years on Google Spreadsheets
- Updated database of 500+ donations using Salesforce database
- Created detailed workflows to guide employees on how to use & maintain updated database

LEADERSHIP & COMMUNICATIONS EXPERIENCE

Brown Club Figure Skating, Co-communications & Media Coordinator

June 2023 - Present

- Promoted club information on practices, competitions, & events for 120+ members
- Created promotional materials for fall & spring shows to raise \$700+ for club competitions & events
- Encouraged community building through social media platforms & updated club website

Brown Journal of Philosophy, Politics, & Economics, Marketing Associate

March 2023 - Present

- Designed & coordinated social media posts for new publications across JPPE's social media accounts
- Communicated with authors to create promotional materials & publicized organization events

Math Department, Undergraduate Teaching Assistant

September 2023 - December 2023

- Teaching assistant for MATH 0190, Single-variable Calculus II for Physics/Engineering
- Communicated feedback on homework assignments & directed students to relevant facts & resources
- Clarified topics in calculus & answered questions in lecture & office hours

Madison Chinese Language School Tutoring Program, Co-founder

September 2019 - August 2022

- Facilitated 110+ hours of tutoring in Math & Mandarin both in-person & virtual for students ages 4-12
- Communicated with MCLS board and families to recruit tutors & organize tutoring services
- Worked with team of tutors to provide free tutoring to Madison, WI community

SKILLS/INTERESTS

Technical: Python, C, Java, HTML/CSS, R, R Studio, Git, Salesforce Database, Adobe Photoshop, Illustrator, & InDesign

Language: Wisconsin Seal of Bilingualism in Chinese & English

Interests: Figure Skating, Political Science, & Logic Puzzles