Maximillian Guo

http://maximillianguo.com

Email : mguo@college.harvard.edu

Mobile : +1-513-801-8591

EDUCATION

Harvard University (GPA: 4.0/4.0)   Cambridge, MA
S.M. in Applied Mathematics (Concurrent Master's).   *May 2023*
A.B. in Computer Science and Statistics, Secondary in Economics.   *May 2023*
Awards: *John Harvard Scholar (2-time), Detur Prize, Certificate of Distinction in Teaching (4-time).*

Sycamore High School (GPA: 4.0/4.0)   Cincinnati, OH
Awards: *Valedictorian, USA Math Olympiad (3-time), US Chemistry Olympiad (2-time, Top 50).*   *May 2019*

EXPERIENCE

Harvard University   Cambridge, MA
Student Researcher · Summer Program for Undergraduates in Data Science Research Fellow   *May 2022 - Present*

- Inventing a new deep Bayesian neural network-based model to interpolate and improve upon the performances of maximum a-posteriori based Neural Linear Models and fixed-kernel Gaussian Processes.
- Empirically evaluating different parametrizations and architectures of the model with regularization interpretations.

Harvard University   Cambridge, MA
(Head) Teaching Fellow (TF) for Harvard's Introduction to Artificial Intelligence Course   *Fall 2022, Fall 2021*

- Expanded course from an enrollment of 65 in 2021 (as a regular TF) to an enrollment of 115 in 2022 (as the head TF).
- Created 5 problem sets with a combined total of 5 in-depth programming problems and over 20 theoretical problems.
- Supervising the creation of at least 15 new handouts, including new problem sets, section notes, and lecture notes.
- Directing weekly meetings to coordinate responsibilities of course material creation, grading, and responding to students.

Five Rings Capital   New York, New York
Quantitative Trader Intern   *May 2021 - August 2021*

- Conducted quantitative research and mock trading via data analysis (intentionally vague in compliance with the company).

Harvard University   Cambridge, MA/Remote
Teaching Fellow/Course Assistant for Multiple Courses   *August 2020 - Present*

- On course staff for 9 courses in math, statistics, computer science (One or more iterations of: Theoretical computer science, Machine Learning, Artificial Intelligence, Group Theory, Probability, Statistical Inference).
- Taught in all possible formats, ranging from large lectures of over 100 students to 1-1 tutoring, both virtually or in person.

LEADERSHIP AND ACTIVITIES

Harvard Association for U.S. China Relations   Cambridge, MA
Executive Board, Finance Director (2021-2022), Conference Director (2020-2021)   *August 2020 - August 2022*

- Directed budget of $200,000 for international conference, community, and organizational expenses.
- Partnered with nonprofit to host a 5 week long hybrid conference for Chinese students.
- Recruited over two dozen professors, student organizations, and student mentors for conference programming involving seminars, panels, masterclasses, and mentorship pairings.

Harvard Square Homeless Shelter   Cambridge, MA
Supervisor (2022-2023), Resource Advocate (2021-2022)   *November 2021 - Present*

- Connected several guests to local resources for shelter, food, and administrative needs on a weekly basis.
- Instituted a new centralized activities tracker to document dozens of client cases and coordinate across resource advocates.

SKILLS AND INTERESTS

Programming Languages: Python , R , C++   **Python Packages:** Numpy , Pandas , Seaborn , Sklearn , PyTorch
Interests: International Development , Juggling , Calisthenics , Piano