Eva Yi Xie

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Education

Massachusetts Institute Of Technology   **Sep. 2020 – Expected in May 2024**
Bachelor of Science in Mathematics and Computer Science (Double Majors)   *Cambridge, MA*

Relevant Coursework and Awards

- **Completed relevant courses:** Probability & Random Variables (Current Undergrad Assistant), Algorithms & Data Structures, Web Dev, Discrete Math in CS, Computation Theory, Machine Learning, Linear Algebra, Science Writing.
- **Spring courses:** Advanced Complexity Theory, Statistics, Game Theory, Embedded Systems.
- **Awards:** Grace Hopper Conference Bloomberg Scholar, NCWIT Aspiration in Computing NYC Winner.

Experience

Poggio Lab at MIT CSAIL & CBMM   **January 2022 – Current**
Undergraduate Research Assistant   *Cambridge, MA*

- Develop a novel supervised learning system, Assembly Calculus, that is as powerful as the current Deep Learning (DL)
- Analyze properties like robustness and interpretability which are shortcomings of DL by experimenting learning models.

MIT Department of Mathematics   **February 2022 – Current**
Undergraduate Assistant for 18.600 Probability & Random Variables   *Cambridge, MA*

- Work with Prof. Scott Sheffield to hold weekly office hours, create online learning materials, act as a resource for struggling students, write solutions for homework and exams, and assist in grading for 200+ students in class.

Jane Street   **January 2022**
INSIGHT Program Trading Track Participant   *Manhattan, NY*

- Part of 35 students selected to dive in mathematical and financial topics such as probability, market structure, and arbitrage through a combo of lectures, group games, and mock trading session led and coached by Jane Street traders.

Facebook   **June 2021 – August 2021**
Facebook University Engineering Intern - IOS Track   *Menlo Park, CA*

- Utilized objective-c, data querying, database cacheing, REST APIs & SDKs, and XCode in IOS App development to create mock instagram, twitter, movie-browsing app, etc., in addition to hands-on pair programming labs.
- **Capstone project:** designed, wire-framed, developed, tested, & demoed an original IOS mobile app for food-sharing, end-to-end, over the span of 4 weeks under the guidance of Facebook engineers. ⚙ https://github.com/minzsiure/Foodie

Jane Street   **January 2021**
INSIGHT Program Software Engineering Track Participant   *Manhattan, NY*

- Learned the fundamentals of electronic trading systems to design the backend & UI for a computer game using OCaml.
- Trained in trading & finance to create an innovative integrated simulated stock exchange program using Python.

Andolfatto Lab at Columbia University   **June 2019 – November 2019**
Genomics Research Assistant   *Manhattan, NY*

- Identified 4 SNPs with potentials to improve Cardiovascular Disease treatments by conducting GWAS using R.
- **Awards:** Regeneron Science Talent Search TOP40 Finalist with $25k scholarship & Minor Planet #17245 YiXie (only finalist in Genomics among 2k projects). Nominated for White House Presidential Scholar out of 3.6M high schoolers.

Leadership / Extracurricular

TechX Student Org/HackMIT   **Fall 2020 – Present**
TechX Director of Marketing, HackMIT Social Chair, Organizer in Marketing and Dev-Ops   *MIT*

- Collaborated to develop the frontend of a virtual interactive event platform HackPlayground using ReactJS to make the first & largest online college hackathon of 1500+ global hackers possible. Open-sourced on Github with 97+ stars.

MIT IEEE/ACM Student Org (Details Upon Request)   **Fall 2020 – Present**
Publicity Chair, EECS Departmental Diversity & Inclusion Representative   *MIT*

Technical Skills

Programming Languages: Python 3, C/C++, HTML/CSS/JavaScript, Java 11, Objective-C, R, OCaml
Tools: Git, React, Google Colab, Bootstrap, LabView, Adobe Illustrator/XD, XCode, Cocoapods, Arduino
Languages: English, Mandarin, Japanese