

Eva Yi Xie

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EDUCATION

Massachusetts Institute of Technology

May 2024

- **B.S. Candidate** in Computer Science and Mathematics.
- **Relevant coursework:** Fundamentals of Programming, Discrete Math & Probability, Intro to Algorithms, Intro to CS, Intro to Computational Thinking & Data Science, Structure & Interpretation of Computer Programs, Web development.

Bronx High School of Science

June 2020

- UW GPA: 95/100. Physical Science Journal *REACTIONS* Founder & Editor for Production | DIY Club President & Founder | Student Government Senator | FeMaidens FRC Robotics Team | National Honor Society | Research Program | Math Team.
- **Scholarships:** Presidential Scholar Nominee. Questbridge Scholarship National College Match Finalist 2019.

PROFESSIONAL EXPERIENCE

MIT Computational Reactor Physics Group

Cambridge, MA

Research Intern

Aug 2020 - Present

- Develop and enhance the open-source software OpenMC for the modeling and design of advanced reactor systems.
- Design functions for hexagonal pin modeling of fast nuclear reactors, breeding ratio, and fissile inventory ratio.
- File example notebooks for proper utilization of the C++ code with Python API to facilitate design operations.
- Explore code integration in large software projects, machine learning of multigroup cross-sections, or optimization.

MIT Tech X

Cambridge, MA

HackMIT Dev-op and Marketing organizer

Sep 2020 - Present

- Collaborate on open-source software development for MIT's largest hackathon of over 1500 hackers across the globe.
- Develop impactful projects that serve thousands of people annually using React frontend, Flask backend with a PostgreSQL database, and Node.js, Angular, and MongoDB written apps that are hosted and deployed on Amazon EC2.
- Design UI/UX using Adobe Illustrator to enhance user experience. Manage marketing to increase publicity.

Vitalise Inc

Remote

UX/UI Researcher & Front-end Back-end Developer

Aug 2020 - Present

- Develop a mobile app that aims to reduce the chances of physician burnout by employing literature-backed wellness and resilience strategies; work on UX/UI using React/Reactive native development; beta test soon with 150 clinicians.

Andolfatto Lab, Columbia University

Manhattan, NY

Research Intern

June 2019 - Nov 2019

- Conducted an individual research project as the first in the lab who applied two Genetic Association Studies using R.
- Identified 4 SNPs associated with the potential to improve Cardiovascular Disease treatments.
- Troubleshoot independently and improved the previous protocol by saving half of the assay budget.
- **Awards:** Regeneron Science Talent Search 2020 TOP40 Finalist, the nation's most prestigious science research competition for high school seniors. Minor Planet #17245 YiXie was therefore named after me. MIT IEEE URTC Presenter.

LEADERSHIP

MIT Institute of Electrical and Electronics Engineers/Association for Computing Machinery

Cambridge, MA

Publicity Chair, Undergraduate Association Diversity & Inclusion Representative

Sep 2020 - Present

- Create and connect a tight-knit community among the MIT EECS students and faculty to the IEEE and ACM network.
- Represent the EECS department in Undergraduate Association to advance diversity, equity, and inclusion (DEI) efforts.

TeenHack LI (501(c)3 non-profit organization)

Long Island, NY

Senior Advisor & Former Director of Marketing/Graphics

Nov 2018-Present

- Led a team of 40 high school organizers. Increased female to male participant ratio to near 1:1.
- Networked and hosted mentors, judges, & speakers from Microsoft, Google, Apple, etc. to promote CS education.
- Raised over \$40k sponsorship and hosted over 500 students across the nation for free among three bi-annual events.
- THLI was recognized by mainstream media such as [Fox Business](#), [Newsday](#), and Nassau County Executive.
- **Individual Awards:** 2020 Grace Hopper Conference NCWIT Scholar, NCWIT Aspirations in Computing National Honorable Mention, NYC Award Winner 2020. Long Island Innovator of the Year.

SKILLS

- **Languages:** Native or bilingual proficiency in English and Mandarin; proficiency in Japanese.
- **Computer skills:** Knowledgeable in **Java, Python, HTML, CSS, Javascript, R, LaTeX, Heroku & Git**.
- **Creative skills:** CAD, 3D-printing, & soldering; 8 years of experience in Digital Art & Design. Proficiency in using tools like Illustrator, Photoshop, Canva, SAI, Flash Animation, Adobe XD, & Microsoft 365.