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 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.
• Troubleshot 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.