

SOPHIE XIE

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EDUCATION

2022– **University of California, Berkeley** — *B.S. in Electrical Engineering and Computer Science*

2021–2022 **University of Chicago** — *Mathematics, College Bridge Scholar*
• MATH 161 (A-), MATH 162 (A)

2016–2022 **Whitney M. Young Magnet High School** — *High School*
• GPA: 4.0/4.0 (UW), 5.2/4.0 (W)

EXPERIENCE

2022 **Chicago Capital** — *Equity Research Intern*
• Received training on financial markets and financial and accounting modeling.
• Pitched and researched stocks TDC and META.

2021–2022 **University of Chicago Data Science Institute** — *Research Assistant*
• Helped develop Keeper, a tool that helps programmers use machine learning APIs better, under Prof. Shan Lu.

2020–2021 **University of Chicago** — *Research Assistant*
• Developed EvolutionSaver, a tool that helps programmers automatically update source code to be consistent with a web application's database-schema, under Prof. Shan Lu.
• Presented EvolutionSaver at the ASE 2021 conference, the premier research forum for Automated Software Engineering.

2020–2021 **International Youth Neuroscience Association (IYNA)** — *Full Stack Developer*
• Maintained all aspects of the IYNA website, including the UX, Frontend, Backend, DevOps, and Server Administration.
• Developed the website's interactive gallery.

LEADERSHIP

2020–2022 **Chicago Teen Mentors** — *Treasurer*
• Raised over \$6000 for events like a Back-to-School Drive, Book Drive, and a STEM Speaker Series.
• Created an automated email program that coordinates emails to over 1000 tutors, parents, and students.

2018–2021 **Whitney Young Crochet Club** — *Treasurer*
• Raised over \$2500 for the nonprofits Room to Read and Project Hope.
• Programmed an online store using Docker and Django. Website is currently hosted on Heroku.

2018–2021 **Whitney Young Swim and Dive Team, Varsity** — *Captain*
• Organized team-bonding events and gear orders.
• Led practices and meets.

PUBLICATIONS

2022 Chengcheng Wan, Shicheng Liu, **Sophie Xie**, Yifan Liu, Henry Hoffmann, Michael Maire, Shan Lu, Automated Testing of Software that Uses Machine Learning APIs, *44th International Conference on Software Engineering (ICSE'2022)*

2021 **Sophie Xie**, Junwen Wang, Shan Lu, Automated Code Refactoring upon Database-Schema Changes in Web Applications, *36th IEEE/ACM International Conference on Automated Software Engineering (ASE'21 Demonstration Track)*

HONORS

Tau Beta Pi/SAE Engineering Scholar, Wentcher Scholar, National Merit Finalist, Illinois State Scholar, AP Scholar with Distinction, Principal's Scholar, Honor Roll