

# SOPHIE XIE

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## EDUCATION

- 2022-2026 **University of California, Berkeley** — *B.S. in Electrical Engineering and Computer Science, College*
- 2021-2022 **University of Chicago** — *Mathematics, College Bridge Scholar*
- MATH 161 (A-), MATH 162 (A)
- 2016-2022 **Whitney M. Young Magnet High School, Chicago, IL** — *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.
  - Donated over 100 crocheted items to the RUSH Children's Hospital and Deborah's Place.
  - Programmed an online store using Docker and Django. Website is currently hosted on Heroku.
- 2018-2021 **Whitney Young Swim and Dive Team** — *Captain*
- Organized team-bonding events and gear orders.
  - Led practices and meets.
  - Placed top-3 at IHSA sectionals in multiple events.

## 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