

# Sophia Qin

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## Education

**University of California, Berkeley**

**Aug 2017 – May 2021**

B.S. Electrical Engineering and Computer Science (GPA: 3.3)

- **Relevant Coursework** — Structure & Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability\*, Linear Algebra, Multivariable Calculus, Designing Information Devices and Systems I and II, Foundations of Data Science\* (\* In progress)
- **Organizations** — Cal Hacks, Society of Women Engineers, AWE, Rewriting the Code, Google Women Techmakers

**Skills** — Java, Python, JUnit Testing, NumPy, SQL, HTML, CSS, JavaScript, Adobe Photoshop, Lightroom, Microsoft Excel

## Experience

**UC Berkeley EECS Department** — CS Tutor for Programming Fundamentals (CS 61A) **Jan 2018 – Present**

- Taught groups of 4-5 students with the use of mini-lectures and problem-based worksheets on course material
- Host office hours and contribute to course logistics including project and exam grading for 1200+ students

**Cal Hacks** — Diversity Director

**Jan 2018 – Present**

- Organize nation's largest collegiate 36-hour hackathon for 2200+ attendees at UC Berkeley, through industrial relations and formulating market and outreach strategy
- Spearheaded Cal Hack's diversity initiative by establishing a pilot program with team building workshops and mentors aimed towards introducing new hackers to the hackathon

**Dos Pueblos Engineering Academy** — Console Designer Intern

**Aug 2016 – June 2017**

- Developed UI for managing the Physics Arcade, an interactive console demonstrating concepts of engineering with the intersection of art and technology
- Designed and coded maze games using Python, JavaScript, and Arduino programming

**Coding Together** — Founder, Teaching Instructor

**May 2017 – July 2018**

- Taught and developed CS curriculum to a class of 60 students with lectures and projects on Scratch, CAD, and robot programming; sponsored by the National Center of Women & IT (NCWIT) and 25 tech companies

**UC Santa Barbara Neuroscience Institute** — Research, Data Analysis Intern

**June 2015 – Nov 2015**

- Extracted 650 retinal scans and provided statistical analyses on structured data to identify key metrics of Sox2 gene's role in proper vision, and created heat-map data visualization using Microsoft Excel software
- Selected for the California Institute of Regenerative Medicine (CIRM) Fellowship to conduct genomics-focused research on macular degeneration and blindness within the eye and produced a paper

## Projects

**BearMaps**

**April 2018**

- Programmed the back-end of a web mapping application of Berkeley, CA that supported features such as image rastering at different zoom levels, autocomplete location search, and route mapping

**Explorable Worlds**

**March 2018**

- Designed and implemented a tile-based game with keyboard controls for navigating levels using Java

**Awards** — Coca Cola Scholar (Top 0.1% of 150,000 Applicants), NCWIT: National Aspirations in Computing Award, Rewriting the Code Fellow, Harriet Miller Leadership Award, James Bartlett Jr. Engineering Award, Google Games Rep