Sofia Theodoras

I'm a motivated and driven student at UC Berkeley, interested in white hat hacking, data science, computational biology, and bioinformatics.

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EDUCATION

University of California, Berkeley – GPA: 3.67 **Aug. 2020 – Present**

B.A. in Molecular and Cell Biology (Immunology Emphasis), and Computer Science Expected May 2024.

TECHNICAL SKILLS

Languages	*Python, Java, C, React, HTML, CSS, AWS, SQL, R*	*English, Swedish*

LEADERSHIP EXPERIENCE

Coursestaff for CS61A - The Structure and Interpretation of Computer Programs **Aug. 2022 – Present**

➢ Teaching a tutoring section for 61A
➢ Running office hours and project parties along with other course staff members
➢ Creating getting started and solution videos for 1700 students
➢ Learning leadership and teaching skills, and navigating a course system of over 800 students with a staff of almost 200.

Officer/Internal Events Coordinator, Computer Science Undergraduate Society **Jan. 2021 – Present**

➢ Organized and Coordinated meetings of over 70 people, hosting several workshops, and leading a panel of alumni speakers
➢ Helping develop the website (https://www.csua.berkeley.edu), discordbots, and servers with a team of web designers.

Developer, Plextech **Jan. 2021 – Jan. 2022**

➢ Completing a neural network driven problem determining the optimal locations for positive human-squirrel interactions within New York city
➢ Working with Tassel Software to create an application that can hold their data and communications within their prison to community college program

CS88 (Computational Structures in Data Science) CSM Senior Mentor **Aug. 2022 - Present**

➢ Junior/Associate Mentor from August 2021 to August 2022
➢ Tutoring several sections of four students on CS88, an introductory computer science course, having an all-female section, an LGBTQ+ section, and an open section
➢ Improving my pedagogy skills to allow for a wide variety of teaching styles

PROJECTS

Undergraduate Lab at Berkeley – Computational Biology **Jan. 2021 – June 2022**

➢ Using evolutionary data to create a model for a hypoallergenic version of peanut allergens that doesn't affect protein function, specifically focusing on Ara h 2, 6, and 7.
➢ Findings presented at the BioE Research Symposium (May 1, 2021), and the ULAB Symposium (May 4, 2021)
➢ 2022 - Mentored students studying cows as model organisms for height

RESEARCH

Undergraduate Researcher and Website Editor, Conboy Lab **May 2022 - Present**

➢ Researching and planning my own project on how human serum/specific proteins in human serum affect aging in Neural Progenitor Cells; experience using flow cytometer, Western Blots, IPs, cell culture/differentiation.
➢ Updating and redesigning the lab website (last updated 2019), to include member pictures/profiles.

Undergraduate Researcher, Barton Lab **Aug. 2021 – May 2022**

➢ Understanding the logistics on how to run a well funded, HHMI sponsored lab.
➢ Experience with Mini/midi preps, PCR, Gel Electrophoresis, mouse work in a gnotobiotic (germ free) facility (tumor injections, weaning and tagging, euthanasia) and growing bacteria in an anaerobic chamber.