

# Sofia Theodoras

I'm a motivated and driven student at UC Berkeley, interested in immunology, bioinformatics, and pushing the limits of scientific knowledge.

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## EDUCATION

University of California, Berkeley – GPA: 3.7

Aug. 2020 – Present

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

## TECHNICAL SKILLS

Languages Python, Java, C, C#, React, HTML, CSS, AWS, SQL, R, GoLang, JavaScript English, Swedish

## RESEARCH

Molecular Screening Intern at Upside Foods

May 2023 – Aug. 2023

- My work focused on optimization of the R&D cloning process by increasing throughput and reducing variability within various steps of the pipeline. Skills used: Cell culture, IF staining, R data analysis/graphing.
- Worked on building and optimizing scripts on liquid handler automation equipment (C#, JavaScript) as well as a React UI for a new walkaway system.

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 and Motor Neurons; experience with flow cytometer, Western Blots, Immunoprecipitation, 2 years of cell culture/differentiation, immunofluorescence, ELISA's, protein biotinylation.
- Updating and redesigning the lab website to include member pictures/profiles.

Undergraduate Researcher, Barton Lab

Aug. 2021 – May 2022

- Experience with
  - Microbiology: Midipreps, PCR, RT-PCR, Gel Electrophoresis, Anaerobic bacteria, ELISAs.
  - Cell Culture: Growing tumor cells to be injected into mice.
  - Mice: Experience in the Gnotobiotic and High Barrier Facilities, Cardiac and Saphenous Vein Bleeds, Weaning, Tumor injections, and Euthanasia Certified.

## PUBLICATIONS & COMPETITIONS

Writer for the American Society for Microbiology (ASM)

Jan. 2021 – June 2021

- Two published articles for the American Society for Microbiology, the largest life science society in the world
- <https://asm.org/Biographies/Sofia-Theodoras>

Big Ideas Competition Finalist

Jan. 2023 – May 2023

- CEO and founder of SurMice, a startup selling lab mice to zoos: <https://sofiathebass.github.io/SurMice/>
- 20 teams chosen as finalists out of 200 applicant teams for the final competition.

## LEADERSHIP EXPERIENCE

Translational Medicine and Stem Cell Association - President

Aug. 2020 – Present

- President Aug. 2022-Present, Academic Chair Aug. 2021 – Aug. 2022, Outreach member Aug. 2020 – May 2021
- Head of the first TMSCA Stem Cell Conference since 2018, bringing in over \$5000 dollars in funding (triple from previous semesters), speakers from around the Bay area, and for the first time being free for all participants
- Organizing general meetings, talks from PI's around Berkeley, and negotiating partnerships with the Princeton Review and the Berkeley Healthtech Colab.

Bioprinting at Berkeley – Team Lead

Jan. 2021 – Present

- Using advanced 3D modelling software and a bioprinter to print a better shaped TMJ disk (allows your jaw to move) that lasts longer than the traditional fat graft, taking into consideration extended force, wear and tear, and a combination of different biological compounds.

Coursestaff for CS61A - The Structure and Interpretation of Computer Programs

Aug. 2022 – Jan 2023

- Teaching a tutoring section and running office hours for 61A
- Creating getting started and solution videos for 1700 students