

## Education

**University of California, Berkeley**

Aug 2019 | May 2022

*BS Electrical Engineering and Computer Sciences (EECS), GPA: 4.0, Relevant Coursework: The Structure and Interpretation of Computer Programs (A+), Designing Information Devices and Systems, Data Structures, Discrete Mathematics and Probability Theory*

## Experience

**Stanford University School of Medicine**      *Computational Biology Research Intern*    2017 | 2019

- Worked under mentor, postdoctoral scholar Hayan Lee, at Snyder Lab.
- Using Python, applied statistical models to analyze methylation entropy of the 23 chromosome pairs of sample patients at different stages of carcinoma.
- Made contributions to various research projects. The completed research contributed to a paper co-authored with mentor.

## Skills

**Programming Languages** Python, Java, C++, SQL, Lisp (Scheme), HTML/CSS

**Technologies** NumPy, SciPy, Matplotlib, Pandas, Scikit-Learn, Tensorflow, Git

## Projects

### DeathClock

Project completed at Snyder Lab from 2018-2019. Cleaned and processed data sets of Lung Adenocarcinoma patients, and applied RandomForest machine learning to develop a model that makes predictions on how many days a patient has left based on given conditions.

### Image Generator

Project completed Winter 2019. Using DCGANs, generated fake images of items based on images in the databases MNIST and Fashion MNIST, and other collections of object images.

## Awards

**The Leadership Award** August 2019

*Cal Alumni Association*

Recognized with \$2,000 scholarship for demonstrating innovative, initiative-driven leadership impacting academic, work, and community environments.

**USACO Gold** January 2018

*USA Computing Olympiad*

Top 1000 among high school algorithmic computing students.

**AIME Qualifier (5-time)** 2015-2019

*Mathematical Association of America*

Top 2.5% of high school mathematics contestants.