Gilbert Feng

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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, 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 currently in progress - Using DCGAN to generate fake images of items, inspired by DCGANs used on MNIST to generate images of handwritten numbers

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 computing students.

AIME Qualifier (5-time) 2015-2019 *Mathematical Association of America*

Top 2.5% of high school math contestants.