Gilbert Feng

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Education

University of California, Berkeley 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, Coursera - Machine Learning

Experience

Stanford University School of Medicine *Computational 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.

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. The completed research contributed to a paper co-authored with mentor.

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 and Honors

Eta Kappa Nu (HKN) Mu Chapter Member

The Leadership Award August 2019 *Cal Alumni Association*

USACO Gold January 2018 *USA Computing Olympiad*

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