

Wesley Kwong

Machine Learning Researcher

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Summary

Experienced biology student with four years of laboratory experience transitioning to be a machine learning researcher. Skilled in public speaking and conveying research findings to a non-technical audience.

Interested in using AI for healthcare, deep learning, predictive medicine, ethical algorithms, and philosophy.

Skills

TECHNICAL

Google Cloud
Apache Spark
TensorFlow
Scikit-Learn

LANGUAGES

Python
SQL
R

Education

University of California, Berkeley Aug. 2020 - Current
Master of Information and Data Science 2021
Relevant Coursework: Applied Machine Learning, Statistics for Data Science, Research Design and Applications for Data and Analysis

University of California, Berkeley Aug. 2018 - Jun. 2020
Bachelor of Molecular and Cell Biology 2020
Relevant Coursework: Big Data: A Public Health Perspective, Applied Data Science with Venture Applications, Introduction to Computational Molecular and Cell Biology

Professional Experience

Eisen Laboratory UC Berkeley, Berkeley, CA
Undergraduate Intern Jan. 2019 - Aug. 2019

- Conducted bioimage processing, segmentation, and analysis workflow in Python to identify Zelda protein interactors
- Performed immunofluorescence and imaging embryos using the Zeiss confocal microscope
- Supervised and mentored high school intern for eight weeks

Srivastava Laboratory Gladstone Institutes, San Francisco, CA
Undergraduate Intern Jun. 2017 - Aug. 2018

- Analyzed single-cell RNA sequencing data (~5K cell rows x 50 genes) in R to identify proteins responsible for heart development
- Collaborated with the Krogan and Finkbeiner laboratories to expand the initial scope of the project by studying other developmental proteins
- Awarded SACNAS travel scholarship to present my research at the 2018 SACNAS Conference in San Antonio, TX

King Laboratory CHORI, Oakland, CA
Undergraduate Intern Jun. 2016 - Jun. 2017

- Identified trends between elemental content in kidney stones and other physiological factors using GraphPad Prism
- Presented findings in the CHORI 2016 35th Summer Research Symposium

Waksman Student Scholars Program DVHS, San Ramon, CA
High School Student Aug. 2014 - Jan. 2015

- Analyzed novel protein-coding sequences in the plant duckweed using bioinformatics software
- Published sequence in the National Center for Biotechnology Information database (Accession# JZ822515)

Projects

PayAttention (Web Application) Jan. 2020 - May 2020

- Created an emotion detection video analysis web application that performs time-series exploratory data analysis based on facial features
- Constructed pipeline by integrating open-source packages and hosted application on the web

Predicting Parkinson's Disease Progression with Smartphone Data Apr. 2020

- Analyzed smartphone data (12M x 28 features) to predict Parkinson's status by implementing a stochastic batch gradient descent model
- Visualized smartphone GPS location onto a world map

Award

Barry Goldwater Scholar Honorable Mention Mar. 2018
National merit scholarship awarded to students who show exceptional promise in STEM