Dexter Luu

dexkluu@gmail.com • (510) 910-0935 • San Francisco Bay Area

Core Qualifications

- Proficient in using Python, R, MATLAB, Tableau, and PostgreSQL for data visualization, data analytics, and scientific computing
- Knowledgeable in machine learning algorithms including, but not limited to, regression, random forest, and collaborative filtering
- Demonstrated ability to communicate insights and concerns effectively through presentations and meetings

Education

San Diego State University — **Finished January 2020 (Graduation in May)**
Master of Science: Statistics — *Cumulative GPA: 3.95*

University of California, Davis — **Graduated June 2017**
Bachelor of Science: Chemical Engineering — *Cumulative GPA: 3.41*

Work Experience

Data Availability Engineer Intern — (June 2019 – August 2019)
ASML

- Assisted business partners by improving characterization of critical to customer parameters through statistical analysis in MATLAB
- Led a project to improve a manufacturing tool's efficiency and succeeded in a 15% reduction in cycle time
- Created scripts to combine data from multiple sources and performed correlation studies on this data to identify risks of failures

Data Analyst Intern — (October 2018 – April 2019)
Article Innovations

- Improved market share prediction abilities by 10% by testing machine learning and data models and implementing the best one
- Developed exploratory analyses in R and Python and reported findings in routine presentations to executives

Manufacturing Associate — (July 2017 – May 2018)
BioMarin Pharmaceuticals through Pro Unlimited

- Obtained routine samples, analyzed them, and made process adjustments in response to the data obtained
- Maintained data integrity through routine checks of batch record entries
- Reviewed and improved SOPs to reflect changes in production and implement improvements to the process

Student Research Assistant — (October 2015 – February 2017)
UC Davis – Department of Pharmacology

Principal Investigator: Daisuke Sato, Ph.D

- Modeled cardiac action potential in a point system, a one-dimensional fiber system, and a two-dimensional tissue system
- Assisted in report creation by generating plots and charts in R and MATLAB

Project

Recommender System: Full stack project consisting of collecting and pipelining data into a RDB using Python's scrapy, cleverly analyzing big data using collaborative filtering on sparse matrices in scipy, and showcasing recommendations using Rshiny.