Nathan Lam

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EDUCATION

University of California, Berkeley   **Aug 2019 to May 2021**

Bachelor of Arts, Statistics

De Anza College   **Sep 2016 to Jun 2019**

Mathematics

WORK EXPERIENCE

California Karate Academy   **Jun 2016 to Aug 2019**

- Instructed classes to teach karate techniques from the fundamentals to advanced techniques
  - Students were aged 5 and up and included people with special needs and adults
- Office management
  - Wrote contracts, handled payments, and provided customer support

SKILLS

Languages: R (caret, dplyr, ggplot2, glmnet), Microsoft Office (Excel, Word, PowerPoint),
Python (NumPy, Pandas, SciPy), MATLAB, SQL

PROJECTS

Statistical Forecasting of Covid-19 Cases   **May 2021**

Stat 153: Time Series - UC Berkeley

- Forecasted the number of Covid cases using time series analysis in R
- Predictions would help medical centers better prepare to meet demands

Natural Language Processing Analysis of US Legislature   **May 2021**

DataGood @ Berkeley - Club

- Performed NLP analysis to summarize state legislature and measure sentiment of each topic in Python
- Analyzing various bills into the model would enhance readability for untrained readers

Random Forest Model   **May 2021**

Stat 154: Stat Prediction and Machine Learning - UC Berkeley

- Modelled the severity of car crashes using 3 million data points of raw geospatial data of accidents
- Created data visualizations of various factors to find relationships in Python and Tableau

Causal Inference Linear Model   **Dec 2020**

Stat 151a: Linear Modelling - UC Berkeley

- Identified significant factors of median income based on college majors using linear regression
- Verified the validity of the model through Cross Validation, ANOVA testing, and bootstrapping
- Found that Engineering, Math, and Biology majors are significant factors in determining median income

HOBBIES

Martial Arts (11 years)
- Practicing a variety of self-defense techniques for exercise and self improvement

Sleight of Hand Magic (7 years)
- Performing for audiences on stage or close up using tricks and illusions as entertainment

Archery (5 years)
- Attend social outings to practice with other archers