Gene **Ho**

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Education

University of California, Berkeley — *Berkeley, CA*

Master of Public Health — *August 2020*

- Global Health Epidemiology & Biostatistics; Applied Data Science, Certificate; GPA 4.0

B.A. Public Health — *May 2019*

- Concentrations: Infectious Diseases & Community Health; GPA 3.7 (Dean's List, Fall 2015)

Skills

Programming R/R Studio, Python, SQL, LaTeX, Git, Flask, JupyterHub, HTML5, REST API

Experience (Selected)

IPQ Analytics, LLC — *Remote*

Data Science Consultant — *May 2020 - Present*

- Performed exploratory analyses on 180k patients over 6M encounters to predict risk of COVID-19, hospitalization duration and mortality using synthetic Veteran patient health records.
- Conceptualized an analytic project to assess lesion displacement in a small clinical trial (n = 37).

University of California, Berkeley — *Berkeley, CA*

Graduate Student Researcher — *May 2020 - Present*

- Designed and implemented a series of R scripts to predict body composition, based on SAS macros, and scaled performance to efficiently analyze health datasets from large observational studies (n > 10,000 each).
- Drafted hypotheses and protocols for an exploratory analysis of fecal/urinary biomarkers of environmental enteric dysfunction in a large water, sanitation, hygiene intervention on child neurodevelopment.

Project Manager — *May 2019 - Present*

- Deployed a custom R Shiny dashboard on Heroku to automate management of 2,000 student engagement surveys to analyze quality of instruction while reducing backend administrative/faculty burden.
- Coordinated 33 student assistants' efforts as they moved a portfolio of 90 public health courses for 1,600 students online.

Ramboll Environ — *Emeryville, CA*

Environmental Data Consulting Intern — *March 2020 - May 2020*

- Analyzed and QA'ed air quality measurements & risk assessment databases using SQL, Access and R.

Alameda Health System — *Oakland, CA*

Health Business Analytics Intern — *May 2018 - Aug 2018*

- Designed a GIS and data dashboard with Google Data Studio to track and monitor non-physician contracts worth $1B.
- Reviewed and compiled $300M of financial data using Excel, pivot tables and EPSi with a Finance Unit Manager.

Projects

Social Distancing Measure Implementation and Political Party Preference — *Project*

School of Information, UC Berkeley — *2020*

By analyzing JHU's COVID-19 databases, we developed and interpreted log-linear and logistic regression models to predict county political party preferences. `plotly` and `geopandas` were used in Python to visualize data in our final report.

Feature Engineering Home Prices in Ames, Iowa — *Project*

School of Information, UC Berkeley — *2020*

An exploratory data analysis to identify house characteristics, resulting in a linear regression model built with Python's `numpy` and `pandas` library, `sklearn` machine learning pipelines in Jupyter notebooks.