

# Gene Ho

A PUBLIC HEALTH DATA SCIENTIST LOOKING TO APPLY CONSULTING AND ACADEMIC EXPERIENCE TO TRANSFORM HEALTH CARE STARTING SUMMER 2020.

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## Education

### Master of Public Health

UNIVERSITY OF CALIFORNIA, BERKELEY

August 2020

Berkeley, CA

- Global Health Epidemiology & Biostatistics; Applied Data Science, Certificate
- Coursework: Principles of Data Science, Backend Web Architecture, Data Science in Business, Statistical Analysis of Categorical Data, Adv. Epidemiologic Methods, Intervention Trial Design, Drug Development & Regulatory Science, Comparative Health Systems

### B.A. Public Health

UNIVERSITY OF CALIFORNIA, BERKELEY

May 2019

Berkeley, CA

## Experience (Selected)

### Environmental Data Consulting Intern

RAMBOLL ENVIRON

March 2020 - Present

Emeryville, CA

- Analyzed air quality modeling and risk assessment data, according to USEPA and state regulations, using SQL and R.
- Familiarized with health risk assessment methodology for soil, gas, and groundwater.
- Summarized maximum risk and hazard indices for sensitive populations for contracted site assessments.

### Graduate Student Instructor

UNIVERSITY OF CALIFORNIA, BERKELEY

May 2019 - Present

Berkeley, CA

- Led sections of 35 students for introductory courses in health insurance policy, health systems, biostatistics, and R programming.
- Taught students fundamental statistical programming concepts, such as bootstrapping, tidyverse, joins, and ggplot.
- Implemented educational technologies (e.g. Gradescope, Slack) to cut grading time by 80% and improve team communication.

### Assistant Instructional Designer

ONLINE MPH, UC BERKELEY

June 2016 - Present

Berkeley, CA

- Doubled the production output of a team of 7 student assistants to accommodate the addition of new public health graduate courses.
- Promoted pedagogical innovation and instructional resilience by developing internal online resources during COVID-19 for 200+ faculty and staff.
- Led implementation of innovative tech (e.g. video conferencing hardware), trialed within this program, to the larger School.

### Health Business Analytics Intern

ALAMEDA HEALTH SYSTEM

May 2018 - Aug 2018

Oakland, CA

- Developed a GIS and data dashboard with Google Sheets & Data Studio to assess data from non-physician contracts.
- Presented novel findings & 5 policy recommendations to executives to inform their charge of improving population health as an anchor institution.
- Shadowed Epic Implementation team during the health system's roll out of the new EMR system.

## Projects

### The Effects of Acupuncture on Breast Cancer Patient Outcomes

SCHOOL OF PUBLIC HEALTH, UC BERKELEY

2020

Thesis

A systematic review that included observational studies and RCTs and had inconclusive findings due to a small body of literature.

### Feature Engineering Home Prices in Ames, Iowa

SCHOOL OF INFORMATION, UC BERKELEY

2020

Project

Identified house characteristics to develop a linear regression model with Python's **pandas** library, **sklearn** pipelines and one-hot encoding.

### COVID-19 Testing Center Database

SCHOOL OF INFORMATION, UC BERKELEY

2019

Project

Built the backend API with MySQL, Docker, Flask, and Google Maps Embed API, to return COVID-19 testing centers in the U.S.

### Impact of Maternal Age on Preterm Birth

SCHOOL OF PUBLIC HEALTH, UC BERKELEY

2019

Project

Performed forward model selection with negative log likelihood to choose the best logistic regression model utilizing **lmtest** and **tidyverse** in R.