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
August 2020

UNIVERSITY OF CALIFORNIA, BERKELEY
Berkeley, CA

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

B.A. Public Health
May 2019

UNIVERSITY OF CALIFORNIA, BERKELEY
Berkeley, CA

Experience (Selected)

Graduate Student Instructor
May 2019 - Present

UNIVERSITY OF CALIFORNIA, BERKELEY
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`.

Assistant Instructional Designer
June 2016 - Present

ONLINE MPH, UC BERKELEY
Berkeley, CA

- Doubled the production output of a team of 7 student assistants, through automation, to accommodate 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 of Public Health.

Environmental Data Consulting Intern
March 2020 - May 2020

RAMBOLL ENVIRON
Emeryville, CA

- Analyzed air quality modeling and risk assessment data and trends, 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.

Health Business Analytics Intern
May 2018 - Aug 2018

ALAMEDA HEALTH SYSTEM
Oakland, CA

- Developed a GIS and data dashboard with Google Sheets & Data Studio to assess and interpret data to provide insight into non-physician contracting.
- Presented actionable findings & 5 business recommendations to executives to inform their charge of improving population health.
- 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
2020

SCHOOL OF PUBLIC HEALTH, UC BERKELEY
Thesis

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

Assessing Hospital Capacity during COVID-19
2020

SCHOOL OF INFORMATION, UC BERKELEY
Project

With JHU's COVID-19 data, we used Jupyter notebooks to develop a linear regression model to predict county-levels hospital bed capacity during the pandemic. We performed data visualization using `plotly` and `geopandas`.

Community Involvement

Community Health Worker
Berkeley, CA

BERKELEY FREE CLINIC
May 2017 - December 2019

- Counseled diverse communities about men's sexual health, utilizing CDC guidelines and treatments.
- Managed clinic cases of reportable communicable diseases, including HIV, syphilis, and hepatitis, through CalREDIE and Athena EHR.