Gene Ho

A budding public health data scientist looking to apply consulting experience and coursework to transform health care through data-driven decisions starting Summer 2020.

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Master of Public Health,
   Global Health Epidemiology &
   Biostatistics
   Applied Data Science, Cert.
Expected August 2020 | GPA: 4.0/4.0

B.A. Public Health
May 2019 | Major GPA: 3.7/4.0

SKILLS

PROGRAMMING

- R & RStudio
- Python
- SQL
- LaTeX

- Git & Github
- Docker
- Google Data Studio

R	Python
– tidyverse	– sklearn
– ggplot2	– pandas
– lmtest	– seaborn / matplotlib
– survival	– Flask
– epitools	

PRODUCTIVITY

- MS Office
- Adobe CC

- Git & Github
- Airtable / Notion

COURSEWORK

GRADUATE

- Principles of Data Science (IP)
- Back-End Web Architecture (IP)
- Data Science in Business
- Stat. Analysis of Categorical Data
- Advanced Epidemiologic Methods
- Intervention Trial Design
- Drug Development, Regulatory Science & Public Health
- Comparative Health Systems

SELECTED EXPERIENCE

ENVIRONMENTAL CONSULTING INTERN

Ramboll Environ | Emeryville, CA   March 2020 - Present
- Analyzed air quality modeling and risk assessment data, according to USEPA and state regulations, using SQL and R.

GRADUATE STUDENT INSTRUCTOR

UC Berkeley | Berkeley, CA   May 2019 - Present
- Led sections of 35 students for introductory courses in health insurance policy, health systems, biostatistics, and R programming.
- Implemented educational technologies (e.g. Gradescope) to cut grading time by 80% and improve team communication.

ASSISTANT INSTRUCTIONAL DESIGNER

Online MPH, UC Berkeley | Berkeley, CA   June 2016 - Present
- 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.
- 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 | Oakland, CA   May 2018 – Aug 2018
- 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 population health improvement as an anchor institution.

PROJECTS

THE EFFECTS OF ACUPUNCTURE ON BREAST CANCER PATIENT OUTCOMES

(thesis)   School of Public Health, UC Berkeley
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

(project)   School of Information, UC Berkeley
Identified house characteristics to develop a linear regression model with Python's `pandas` library, `sklearn` pipelines and one-hot encoding.

ASSESSING ASSOC. OF MATERNAL AGE ON PRETERM BIRTH WITH LOGISTIC REGRESSION

(poster)   School of Public Health, UC Berkeley
Performed forward model selection with negative log likelihood to choose the best logistic regression model utilizing `lmtest` and `tidyverse` in R.