Gene **Ho**

A PUBLIC HEALTH DATA SCIENTIST LOOKING TO APPLY CONSULTING AND ACADEMIC EXPERIENCE TO IMPROVE HEALTH.

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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; GPA 4.0
- Relevant Coursework: Principles of Data Science, Adv. Epidemiologic Methods, Intervention Trial Design, Statistical Analysis of Categorical Data, FDA Drug Development & Regulatory Science, Digital Health Innovation

B.A. Public Health   *May 2019*

UNIVERSITY OF CALIFORNIA, BERKELEY   *Berkeley, CA*

- Concentrations: Infectious Diseases & Community Health; GPA 3.7 (Dean's List, Fall 2015)
- Relevant Coursework: Molecular Immunology, Organic Chemistry

Experience (Selected)

University of California, Berkeley   *Berkeley, CA*

GRADUATE STUDENT RESEARCHER   *May 2020 - Present*

- Adapted SAS macros for body fat predictions into a series of R scripts, scaled to analyze large (>15,000 patients) anthropomorphic datasets.
- Prepared statistical reports for a secondary analysis of fecal/urinary biomarkers in a water, sanitation, hygiene RCT on child development.
- Cleaned antibiotic use data to predict environmental enteric dysfunction among children in a low resource setting.

GRADUATE STUDENT INSTRUCTOR   *May 2019 - Present*

- Led sections of 35 students for introductory courses in health insurance policy, health systems, biostatistics, and R/statistical programming.
- Taught 200+ students statistical programming concepts, such as bootstrapping, `tidyverse`, joins, and data visualization in `ggplot`.
- Recieved a mean instructional effectiveness score of 6.45/7.00 (department mean = 6.08), for a graduate biostatistics course.

Online MPH, UC Berkeley   *Berkeley, CA*

ASSISTANT INSTRUCTIONAL DESIGNER/PROGRAM COORDINATOR   *June 2016 - Present*

- 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 resources during COVID-19 for 200+ faculty and staff.
- Engaged various stakeholders, from students to the Dean of Public Health, to assess and plan for delivery of instruction during COVID-19.
- Managed 33 undergraduate and graduate students as they moved 40 public health courses for 1600 students online due to COVID-19.

Ramboll Environ   *Emeryville, CA*

ENVIRONMENTAL DATA CONSULTING INTERN   *March 2020 - May 2020*

- Analyzed and QA'ed air quality models and risk assessment data, according to USEPA and state regulations, using SQL, Access and R.
- Familiarized with technical documentation for health risk assessment methodology of soil, gas, and groundwater.
- Summarized maximum risk and hazard indices for sensitive populations for contracted site assessments.

Alameda Health System   *Oakland, CA*

HEALTH BUSINESS ANALYTICS INTERN   *May 2018 - Aug 2018*

- Reviewed and compiled $300M of accounts payable invoices using Excel pivot tables and EPSi with a Strategic Planning Manager
- Developed a GIS and data dashboard with Google Data Studio to assess and interpret data to provide insight into non-physician contracting.
- Wrote technical reports with 5 business recommendations to provide insight into the executives' charge of improving population health.

Projects

Social Distancing Measure Implementation and Political Party Preference   *Project*

SCHOOL OF INFORMATION, UC BERKELEY   *2020*

By aggregating JHU's COVID-19 data, we developed log-linear and logistic regression models predict county political party preferences with lag time to social distancing implementation. `plotly` and `geopandas` were used in Python to visualize data in our final technical report.

COVID-19 Testing Center Database   *Project*

SCHOOL OF INFORMATION, UC BERKELEY   *2020*

Built the backend API to map US COVID-19 testing centers with SQL and Flask (Python & JSON) docker containers to query gMaps APIs.