Gene **Ho**

A public health data scientist looking to apply consulting and academic experience to impact health care.

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

B.A. Public Health   *May 2019*

University of California, Berkeley   *Berkeley, CA*

- Concentrations: Infectious Diseases & Community Health; GPA 3.7

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/functions, scaled for application in NHANES & another novel data set.
- Prepared statistical analysis plan for a secondary analysis of a large water, sanitation, hygiene intervention on child development.

Graduate Student Instructor   *May 2019 - Present*

- 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 data visualization in `ggplot`.

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.
- Managed a team of 20 undergraduate and graduate students tasked with adapting courses to prepare the School for online instruction in the fall.
- Oversaw 12 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 modeling and risk assessment data and trends, 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 approved Accounts Payable invoices using Excel pivot tables and EPSi with a Strategic Planning Manager
- Developed a GIS and data dashboard with Google Sheets & 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   *2020*

School of Information, UC Berkeley   *Project*

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

COVID-19 Testing Center Database   *2020*

School of Information, UC Berkeley   *Project*

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

Impact of Maternal Age on Preterm Birth   *2019*

School of Public Health, UC Berkeley   *Project*

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