Maria Ma, MPH

i.am.maria.ma@gmail.com | (650)-690-5672 | linkedin.com/in/marialma | marialma.github.io

Work Experience

Aledade   Feb 2023 – present
Data Analyst
- Created internal tools supporting value-based care, developing dashboards for target prioritization
- Analyzed significant cost drivers in key markets, identifying over $3m in cost reduction opportunities
- Developed ad hoc database using Google Appscript to support bespoke analysis needs

Los Angeles County Department of Public Health   May 2021 – Jan 2023
Epidemiologist
- Automated daily data ingestion for COVID-19 patient records, processing over 1,000 cases a day
- Implemented probabilistic record linkage algorithm for matching and deduplicating patient data streams
- Optimized a key data pipeline, cutting run time by 50% and shaving hours off of routine data processing, allowing contact tracing efforts to happen faster
- Developed alert system to identify potential data interruptions
- Developed interactive, public dashboards tracking COVID-19 outcomes by vaccination status

Medic Mobile   March 2019 – April 2021
Data Scientist/ Impact Analyst
- Drove analysis projects using Medic Mobile's proprietary electronic health record (EHR) data on patients across Africa and South Asia to drive product improvements
  - Utilized mixed method approaches involving both qualitative and quantitative data to improve understanding of a core user's daily experience with the app
  - Combined GPS data and human settlement maps to assess coverage gaps
- Spearheaded outcomes analysis on novel initiatives aimed at improving care, including identifying challenges to implementation
  - Analyzed usage patterns of a COVID-19 direct patient text messaging workflow
  - Assessed accuracy and impact of predictive algorithms
- Led data science quality improvement initiatives
- Developed internal data science code base and analytics packages

Education

UC Berkeley School of Public Health   2015 - 2017
MPH in Infectious Disease and Vaccinology

UC Davis College of Biological Sciences   2007 - 2011
BS in Microbiology

Skills

- R
- SQL
- Google Sheets
- MS Excel
- Experimental design
- Causal inference
- Data analysis
- Data visualization

Other Work Experience

DuPont Industrial Biosciences   Aug 2011 - Aug 2015
Molecular Biology Research Associate