**Maria Ma, MPH**

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**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*