

# Maria Ma, MPH

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## Education

### UC Berkeley School of Public Health

May 2017

MPH in Infectious Disease and Vaccinology

**Capstone Paper:** Modeling of Antibiotic Resistant Gonorrhea to Determine Economic Value of Interventions

### UC Davis

June 2011

BS in Microbiology

## Projects

### Benioff Children's Hospital - Family Information and Navigation

*Intervention aimed at addressing social determinants of health for families of patients*

- Wrote research approach, data collection plan, and analysis plan for a grant application to evaluate impact and cost effectiveness of an existing social intervention

### Cancer Support Community - Social Impact Metrics (coursework)

*Devised impact metric plan for assessing educational program from the nonprofit Cancer Support Community*

- Identified organization's theory of change and determined where bottlenecks to data gathering were
- Facilitated patient focus groups, gathering information on real-life use cases
- Developed surveys and implementation plan for impact assessment

Additional projects may be found at: <http://marialma.github.io>

## Experience

### CalSTAPH – Executive Board Member

Aug 2016 – May 2017

*Providing overflow support to state and local health agencies*

- Set organizational development priorities for the 2016-2017 year
- Collaborated with health agencies to develop fruitful and beneficial student projects
- Planned and organized workshops, strengthening relationship with a federal government department office

### Roche Molecular Diagnostics – Health Policy Intern

May 2016 – Aug 2016

Medical and Scientific Affairs Department

*Generated recommendations for Roche within the antimicrobial resistance policy landscape*

- Devised strategy for inclusion of cutting edge diagnostic tool in treatment guidelines
- Created slide decks and proposed strategy recommendations to senior management

### US Department of Health and Human Services – Data Analysis Intern/Volunteer

Oct 2015 – Oct 2016

Office of Pacific Health

*Assisted with activities focused on US Affiliated Pacific Island (USAPI) nation healthcare challenges*

- Developed interactive visualization of federal grant data using Microsoft Excel and Tableau
- Created basis of a formulary for improving drug purchasing power for USAPI nations
- Wrote an article for an ACF newsletter which highlighted health challenges faced by USAPI nations

### DuPont Industrial Biosciences – Research Assistant

Aug 2011 – Aug 2015

Molecular Biology – Fungal Expression Department

*Developed solutions for consumer goods through synthetic biology*

- Designed, executed, and evaluated experiments for optimizing protein expression in fungal host strains
- Worked in a cross-functional team to develop a new product offering 2% additional yield over competitors
- Lead a molecular biology sub-project focused on engineering bonus improvements
- Contributed technical details on a novel enzyme characterization for 3 patent applications
- Managed and mentored a summer intern on a research project

## Skills

- Software: MS PowerPoint, MS Excel, STATA, Tableau, R, Python, SQL
- Data cleaning, data analysis, project management, grant writing, literature review, cultural sensitivity
- Conversational fluency in Mandarin Chinese