

# Maria Ma, MPH

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## Summary

Public health graduate passionate about harnessing data for improved health outcomes

## Skills

- Software: MS Excel, R (ggplot2, dplyr, knitr), STATA, Python, SQL (MS Access), Tableau
- Data cleaning, data analysis, data visualization, project management, grant writing, literature review
- Experience working with protected health information, diverse data sources,
- US citizen, conversational Mandarin speaker

## Projects

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

*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 bottlenecks for data gathering
- Developed surveys and facilitated focus groups to create an implementation plan for impact assessment

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

## Work Experience

### Keep Antibiotics Working – Staff Assistant

Feb 2018 – Present

*Providing support for a nonprofit leading advocacy efforts to reduce superbugs in our food supply*

- Researched and analyzed FDA, USDA, and OIE documents in support of advocacy efforts, generating reports that have been synthesized from various publically available sources
- Implemented web scraper for harvesting FDA animal drug approval data
- Compiled and managed database of supporters and donors
- Drove increased audience engagement in social media and outreach efforts

### 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 device in treatment guidelines
- Created in-depth slide decks and proposed strategy recommendations to senior management

### 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, delivering results in an unprecedented timespan
- Lead a molecular biology sub-project focused on engineering bonus improvements
- Made major contributions to 3 patent applications concerning uses of a novel enzyme
- Managed an intern on a research project

## 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

## Other Experience

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**Santa Cruz County, Communicable Disease Unit – Volunteer Epidemiologist** Oct 2017 – Nov 2017

*Provided analytical and miscellaneous support during a protracted Hepatitis A outbreak*

- Looked for demographic related trends within the outbreak and vaccination efforts
- Analyzed subsets of the California Reportable Disease database for demographic trends in sexually transmitted infections, using both reported demographic data and survey results

**CalSTAPH – Executive Board Member**

Aug 2016 – May 2017

*Provided 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

**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

## Publications

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### Patent Applications

- WO2016062857A1: Use of proline tolerant tripeptidyl peptidases in feed additive compositions
- WO2016065238A1: Method for producing alcohol by use of a tripeptidyl peptidase
- US20170325479A1: Proline tolerant tripeptidyl peptidases and uses thereof