

## Ally Qi, MPH

Nashville, TN 37203

Phone: 615-961-5466 | Email: mcally1220@gmail.com

LinkedIn: <https://www.linkedin.com/in/mcally> | GitHub: <https://github.com/maia1220>

Experienced Data Analyst with two co-authored publications, a certificate of data analytics and visualization from Vanderbilt University and four plus years' experience overseeing data management for multi-center clinical research trials. Expert in innovative data workflow automation utilizing programming languages, remote site communication and fast-paced research environments.

### TECHNICAL SKILLS

**Tools:** Microsoft Excel VBA, R, SPSS, STATA, Python (Pandas, Matplotlib, Flask app, API, etc.), JavaScript, HTML, CSS, Bootstrap, Plotly, D3, QGIS (Geographic Information System), Tableau

**Databases:** SQL and non-SQL databases (PostgreSQL, MongoDB, REDCap)

### PROJECTS

#### **Python API: Weather & Vacation | <https://github.com/maia1220/python-api-challenge.git>**

- Summary: creating a Python script to visualize the weather of 500+ cities across the world of varying distance from the equator and working with the weather data and the Google Places API to plan future vacations.
- Core responsibilities: sole contributor & coder
- Tools / languages used: Python (city Python library), OpenWeather API, Google Places & Maps API

#### **Web Scraping: Mission to Mars | <https://github.com/maia1220/web-scraping-challenge>**

- Summary: building a web application that scrapes various websites for data related to the Mission to Mars and displays the information in a single HTML page.
- Core responsibilities: sole contributor & coder
- Tools / languages used: Python (Jupyter Notebook, BeautifulSoup, Pandas, and Requests/Splinter), MongoDB and Flask Application, HTML & Bootstrap

#### **Interactive Web Design: Health Journalism | <https://github.com/maia1220/D3-Challenge.git>**

- Summary: using the D3 techniques to create interactive scatter plot graphics on a web site.
- Core responsibilities: sole contributor & coder
- Tools / languages used: Excel, Python, HTML, JavaScript, D3

### EDUCATION

#### **Bootcamp Certificate: Vanderbilt University, Nashville, TN**

*Sep. 2020*

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

#### **Master of Public Health (MPH)**

*Jun. 2015*

Touro University California (TUC), Vallejo, CA  
Concentration: Global Health & Research

#### **Bachelor of Science in Human Biology**

*Dec. 2011*

University of California-Santa Cruz, Santa Cruz, CA

## PROFESSIONAL DEVELOPMENT

**Publication:** J. Heerman, William & E. Burgess, Laura & Escarfuller, Juan & Teeters, Leah & Slesur, Lauren & Liu, Jia & Qi, Ally & Samuels, Lauren & Singer-Gabella, Marcy. (2018). Competency-Based Approach to Community Health (COACH): The methods of a family-centered, community-based, individually adaptive obesity randomized trial for pre-school child-parent pairs. Contemporary Clinical Trials. 73. 10.1016/j.cct.2018.08.006.

**Computer skills:** Microsoft Office (Access, Excel, Word, PowerPoint, Publisher)

**Licenses or Certificates:** Emergency Medical Technician license (2012-14), ambulance driving certificate (2012), BLS CPR certificate (2015)

## RELEVANT EXPERIENCE

### Senior Clinical Research Data Specialist

*Nov. 2018 – Present*

VICTR, Vanderbilt Medical Center (VUMC), Nashville, TN

- Overseeing data management of multi-site human studies involving pharmaceuticals, biologics, and/or devices and for supporting and informing the corresponding Clinical Trial Operations Managers as needed
- Maintaining effective working relationships with study team, study PI, and participating sites
- Validating clinical trial data to ensure consistency, integrity and accuracy based on project specific guidelines

### Research Analyst III (Data Management & Database Building)

*Apr. 2016 – Oct. 2018*

Vanderbilt Medical Center (VUMC), Nashville, TN

- Oversaw data management, provided data analysis support utilizing STATA, and designed/built databases in REDCap & ACCESS
- Generated and presented data reports to the lab team, and to the internal and external funding agencies
- Communicated and coordinated with team members to identify reporting needs and to problem-solve ongoing data issues

### Statistical Programming Analyst

*Sep. – Dec. 2015*

TUC, Vallejo, CA

- Oversaw data cleaning, data analysis, data mapping & data visualization by using Stata
- Managed large national datasets, including Demographic & Health Surveys (DHS)
- Performed descriptive and multivariate regression analyses
- Handled missing data & created codes of Infant Mortality Rate, survival rate, macro commands for longitudinal datasets

### Student Researcher (Field Study)

*Sep. 2014 – Jun. 2015*

TUC, Vallejo, CA & Debre Markos University (DMU), Ethiopia

- Conducted an individual research project to assess the level of knowledge, attitude, and practices regarding community-based health insurance in Dembecha town, Ethiopia
- Instructed a grant writing class to 50 public health students at DMU
- Cultivated a number of research skills, including project design, IRB preparation, literature review, data management and data analysis by SPSS/STATA/Epi-info

### Public Health Program Evaluator

*Jan. – Apr. 2014*

Petaluma Health Center, Petaluma, CA

- Conducted a program evaluation for the “Smart Start for Your Baby” program to assess the effectiveness of the program
- Organized visits to the center and interviewed program coordinator, physician, health providers and program participants

### Research Assistant (Public Health)

*Aug. 2013 – Jun. 2014*

Touro University California, Vallejo, CA

- Assisted with data collection and entry for the Solano County School Based Oral Health Project and the M.I.H.F.A. Project
- Provided 3-5 educational workshops on oral health and nutrition at various elementary schools in Vallejo, CA