Ally Qi, MPH

Phone: 209-330-3024 | Email: mcally1220@hotmail.com | Nashville, TN 37203
LinkedIn: https://www.linkedin.com/in/mcally | GitHub: https://github.com/maia1220
Portfolio: https://maia1220.github.io/allyqi/

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. Experienced in clinical research methods, data workflow automation, database design, data cleaning and analysis using various programming languages.

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 & Power BI

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

Bachelor of Science in Human Biology
University of California-Santa Cruz, Santa Cruz, CA

PROFESSIONAL DEVELOPMENT

Publications:

1) 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

2) Heerman, W. J., Sommer, E. C., Qi, A., Burgess, L. E., Mitchell, S. J., Samuels, L. R., Martin, N. C., & Barkin, S. L. (2020). Evaluating dose delivered of a behavioral intervention for childhood obesity prevention: a secondary analysis. *BMC public health*, *20*(1), 885. https://doi.org/10.1186/s12889-020-09020-w

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