

Tyler C. Marino

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Objective:

I am seeking an environment where I can improve my machine learning, mathematical and statistical skills by developing efficient and thought provoking algorithms to help model complex systems using complex data. My background helps me adapt and overcome challenges by both abstracting and enriching problems to allow for a perspective better suited for the task at hand.

EDUCATION:

University of California, Berkeley

Bachelors of Arts: *Applied Mathematics Emphasis in Data Science*

GPA: 3.50

Berkeley, CA

May 2024

Skills:

- **Programming:** Python, R, SQL, BigQuery, Javascript, HTML
- **Computer:** Google suite, Microsoft Suite, Canva, File Management, Github
- **Personal:** Communication, Adaptability, Curiosity

Work Experience/Academic Projects:

Staff Research Associate in Data Science(Ruhi Lab UC Berkeley):

October '24 - Present

- Develop statistical, probabilistic and network frameworks to upsample non-uniform ecological data.
- Use dynamic linear models to track evolving relationships between species and environment.
- Review literature, develop tests, clean/manage data, data visualization app, promote interactive learning.

Data Visualization and App design(Ruhi Lab UC Berkeley):

January '24 - October '24

- Present relational data sets and associated descriptive statistics in a multifaceted R shiny app.
- Work for California Department of Fish and Wildlife transforming data to be interactive and open source.
- Lead the Data Visualization, User Interface and User Experience components of this research project.

Data Lead at Upton Consulting Group:

May '23-May '24

- Spearhead the technology solutions component of a Diversity Equity and Inclusion consulting firm.
- Clean and analyze DEI survey data to compare confounding variables in a company's current DEI efforts.
- Report to companies and advise next steps to increase DEI awareness and practices in 30-5000 employees.

Influence of El Nino on Snowpack and Water Runoff:

Fall '23

- Coordinate open source time series datasets for snow and soil moisture content for the Sierra Nevadas.
- Perform A/B testing on data to optimize a Multivariate Auto Regressive model to characterize causal inference across natural processes and measure uncertainty in systems.
- Draft a peer reviewed research article and visualize then present findings to 40 students and faculty.

PROFESSIONAL EXPERIENCE:

Faculty Club (Banquet and Dining Room Server)

August 2023- Present

- Fine dining establishment, communicate in Spanish, provide assistance to hotel guests.
- Take orders, make drinks, organize banquets and lead small teams to ensure smooth work.

International House Dining (Lead)

February 2022-August 2023

- Organize shipments(>100 items), operate industrial machinery, train/supervise staff (10-15).
- Schedule and communicate across several departments to ensure smooth working conditions.

Poki Poki (Shift Lead)

May 2021-Present

- Manage small teams of employees(3-5) to work at high levels and maintain professionalism.
- Work with scheduling software, organize shipments, count cash registers.

LEADERSHIP/AWARDS:

UC Berkeley Maps Community of Practice(Coordinator)

Fall 2022-Present

- Coordinate 15-20 community member events to discuss applicable mapping techniques.
- Engage with faculty, professionals, and students to form a space for like-minded individuals to meet.

Applied Mathematics School at King Abdullah University of Science and Technology (KAUST):

Fall '22

- Learn computational statistics methods for large scale data sampling, cleaning, and parameter estimation.
- Exposure to newly developed methods to optimize Partial Differential Equation solutions for CFDs.

California Transportation Foundation Scholar

Fall '23

SERC Science Scholar

Summer '23

Hobbies:

surfing, wood working, reading, playing guitar(Cage the Elephant, Dr. Dog, Beatles), soccer, hiking, camping