

# Mary McSweeney

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## EDUCATION

### B.S. Statistics & Data Science

June 2025

University of California, Los Angeles (UCLA) - Los Angeles, CA

- GPA: 3.90
- Relevant Coursework: Statistical Consulting, Regression Analysis, Linear Models, Experimental Design, Data Mining, Databases, Python for Data Science

## TECHNICAL SKILLS

- **Languages:** Python, SQL, R, C++
- **Tools:** Tableau, Power BI, Excel (PivotTables, VLOOKUP, Functions)
- **Methods:** Regression, Logistic Regression, Decision Trees, Random Forest, XGBoost, Experimental Design, Hypothesis Testing, Exploratory Data Analysis (EDA), Data Cleaning, Data Entry

## ACADEMIC PROJECTS

### Statistical Consulting Capstone

- Built regression and forecasting models in R (Linear Regression, Decision Trees, XGBoost) to predict pitcher Wins Above Replacement (WAR) from pitch and game-level data.
- Presented findings to an MLB analyst through written report and live presentation, explaining model performance and highlighting key variables driving predictions.

### Netflix Content Trends Analysis

- Cleaned and standardized 8,800+ Netflix records with Python (pandas, NumPy), resolving missing values and variable inconsistencies.
- Created visualizations with matplotlib and seaborn to track long-term shifts in Netflix content, highlighting changes in genre diversity, release patterns, and TV series production.

### Educational Opportunity Analysis

- Analyzed 100k+ statewide education and demographic records to detect regional trends.
- Designed interactive Tableau dashboards with filters and comparisons to highlight inequities in educational resources across counties and demographic groups.

### Crochet Relational Database & SQL Querying

- Designed relational schema with multiple interconnected tables to model crochet pattern data.
- Wrote SQL queries (joins, aggregations, filters) to extract and summarize relationships, identifying trends in designer preferences and material usage.

## EXPERIENCE

### Mathematics Tutor

Dec 2021 – Present

On Track Learning - Alamo, CA

- Provided subject tutoring in algebra, calculus, and statistics to middle and high school students.
- Entered and tracked performance metrics for 6-12 students weekly, ensuring accuracy and consistency across records used for progress reviews.

### President

May 2024 – June 2025

Chi Alpha Psi Co-Ed Transfer Fraternity, UCLA - Los Angeles, CA

- Directed 30+ member organization with \$5,000+ quarterly budget, managing weekly meetings, officer coordination, and 12+ events per quarter.
- Collected and analyzed participation data to evaluate event success and strengthen engagement.

### Social Media Manager

Oct 2023 – June 2024

Student Transfer Mentor & Outreach Program, UCLA - Los Angeles, CA

- Managed outreach campaigns reaching 2000+ UCLA transfer students.
- Tracked performance analytics and engagement data across platforms, adjusting content strategies to boost awareness of academic resources.