

Ryan Marangattu

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EDUCATION

California Polytechnic State University - San Luis Obispo

June 2026

B.S. Statistics / Minor in Mathematics

COURSEWORK

Courses: Multivariate Statistics, Linear Algebra, Linear Modeling, Graph Theory, Discrete Math, Game Theory, Calculus, Probability, Survey Sampling & Methodology, Mathematical Statistics, Statistical Learning

SKILLS

Languages: Python(pandas, NumPy, matplotlib), R(tidyverse, ggplot2), SAS, SQL, Minitab, L^AT_EX

Tools: Git/GitHub, RStudio, JMP Pro 16, SAS, Tableau, MS Office Suite(Word, PowerPoint, Excel), Google Suite

EXPERIENCE

Production Technician | *Empirical Systems Aerospace (ESAero), San Luis Obispo, California* October 2025 - Present

- Assembled composite and electromechanical components following detailed instructions, ensuring 100% adherence to quality and safety standards.
- Supported production goals by monitoring build accuracy and escalating process deviations, contributing to consistent on-time delivery and operational efficiency.
- Collaborated with cross-functional manufacturing teams to improve workflows, enhance product reliability, and meet daily output metrics in a fast-paced environment.

Data Analyst | *Arch Machining, Canoga Park, California*

June 2024 - September 2024

- Sorted and analyzed large amounts of raw data for company archives using Python, resulting in a 75% faster retrieval time.
- Played a key role in budget management activities, assisted in budget preparation and monitoring expenses.
- Created a new sorting system for coworkers to upload project files that was intuitive to users unfamiliar with computers.

University Housing Student Lead | *Cal Poly, San Luis Obispo, California*

June 2023 – September 2023

- Assisted employees in verifying time sheets for 100+ workers and payroll data using Excel.
- Worked with the housing department to plan and execute move-in procedures for over 8,000 students living on campus.
- Managed supply inventory and maintenance requests to ensure optimal living conditions across dorm facilities.

STATISTICAL PROJECTS

Survey of Cal Poly student employees' employment experiences | *JMP Pro 16*

December 2024

- Conducted a comprehensive survey to examine the various competencies students expected to develop over the course of their employment at Cal Poly, to report to the Student Affairs department.
- Cleaned the collected data using SAS and generated charts using the tidyverse package in R.
- Presented the process of collecting and conclusions of our survey to an audience of clients and others unfamiliar with statistics.

Analyzing the total sugar content of four varieties of juices | *JMP Pro 16*

May 2023

- Conducted a thorough analysis of the total reduction content of multiple juice varieties.
- Collected samples of four juice flavors of a specified brand, preparing and analyzing them according to protocols to determine the exact reduction content.
- Utilized statistical analysis in JMP Pro 16 to identify variations in reduction levels among the different juice varieties.