

EDUCATION

**California Polytechnic State
University, San Luis Obispo**

Major: Software Engineering
Dean's List: 2 Quarters

Major GPA: 3.47
Overall GPA: 3.24

**Junior
Class of 2022**

EXPERIENCE

Undergraduate Research Assistant

Chan-Zuckerberg Initiative
Grant, NumFOCUS Grant

Fall 2019 - Present

Increased speed of data fit methods for scipy.stats distributions by factor of 10

- Implemented maximum likelihood estimation by formula and optimization over system of equations to improve data fit speeds
- Added unit tests to ensure continued correct behavior
- Created easily extendible benchmarks to measure speed increase of overridden distributions

Addition of new Alexander-Govern statistical test, documentation, and unit testing to SciPy

Authored tests for test driven development of 8 new scipy.linalg python wrappers from fortran Linear Algebra Package (LAPACK) routines

Technology Specialist, Student Web Developer

Cal Poly Corporation
San Luis Obispo, CA

Fall 2019 - Spring 2020

Enhanced calpolydining.com and calpolycorporation.org

- Improved static site speed, implemented ADA compliance, updated content and cards

Oversaw Marketing and Communications Department technology

- Repaired Cisco Meraki live content deployments, maintained printer network access and student workstations

Electronics Team Member

Cal Poly Racing, Baja SAE
San Luis Obispo, CA

Fall 2019 - Spring 2020

- Created C++ serial data communication program for embedded vehicle computers
- Developed general use python data plotting scripts for use by non-software engineers on the team

Software Engineering Intern

Ariat International
Union City, CA

Summer 2017

- Built software interface and backend to generate boilerplate webpages and databases for product promotion rather than individual page creation
- Collaborated with other interns to revitalize consumer point rewards program

SKILLS

Python, SciPy, Github, Java, Remote Collaboration, C, Spyder, Object Oriented Programming, Brewing Kombucha