



James Saslow

Physicist - Programmer - Data Scientist

[My Personal Website](#)

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Skills

Programming: Python, C++, Wolfram Language, LaTeX, HTML & CSS

Software: JupyterLab, LabView, GitHub, Mathematica, LTSpice, Autodesk Inventor, Solidworks, Sublime Text, Google Sheets

My project portfolio can be found [here](#)

Programming Related Skills :

- Numerical methods for solving partial differential equations
- Advanced Regression Techniques
- Machine Learning Models & Neural Network Architecture
- Finite Element Analysis
- Signal Analysis
- Data Visualization

Professional Experience

Researcher | *Griffiss Institute* | Rome, NY (Jun - Aug 2023)

- An upcoming internship opportunity working for the Griffiss Air Force Research Laboratory investigating quantum computing, quantum circuits, and other applications to quantum technology

Researcher | *San Jose State University* | San Jose, CA (Sept 2019 - Present)

- Performed independent research with two physics professors at my university
- Research Project #1 with Dr. Khatami: Development of Gaussian Mixture Models in Python
 - Detected spin clusters in high dimensional Ising Model PCA data
- Research Project #2 with Dr. Wharton: Researched the nature of Quantum Entanglement via Python simulations of 3-wave mixing
 - Gave a poster presentation at the SJSU College of Science Research Day

Grader | *San Jose State University* | San Jose, CA (Jan - May 2021)

- Grader for a Mathematical Methods for Physics course during the 2021 spring semester
- Assisted students with problem sets in Zoom breakout rooms
- Gave thorough and effective feedback on homework that enhanced students' understanding of the topic

Researcher | *The Leadership Alliance, Brown University* | Providence, RI (Jun - Aug 2020)

- Performed professional research on soft matter physics & virology during the COVID-19 epidemic
- Solved for the structure and function of a spherical colloidal membrane viral assembly
- Presented my research to the Virtual Leadership Alliance National Symposium
- Was Awarded the Leadership Alliance Professional Development Badge in recognition for my research

Supervisor | *Hollywood Beach Cafe* | Oxnard, CA (Jun 2018 - Present)

- Analyzed customer traffic trends to create effective scheduling methods that don't under/overstaff
- Performed Cost Analysis, Inventory, and Menu Engineering to helped the company save costs in labor and ingredients while improving the quality of our product

Education

Bachelors of Science in Physics (Aug 2018 - Dec 2022)

San Jose State University

- **Upper Division Major GPA:** 4.0 / Overall: 3.96
- **Relevant Coursework:** Solid State Physics, Electronics & Data Acquisition, Quantum Mechanics, Electrodynamics, Classical Mechanics, Partial Differential Equations, Thermodynamics
- **Awards:** Summa Cum Laude, President's Scholar, Accepted into the Society of Physics Students for recognition of scholarly excellence
- **Certifications:** LabView Programming, Troubleshooting, & Environment