James Saslow
Physics B.S. Graduate

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Personal Website: https://jamessaslow.github.io/home.html

Skills

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

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

Projects: Can be found on my personal website (See above)

Programming Related Skills :
• Numerical methods for solving partial differential equations   • Finite Element Analysis
• Advanced Regression Techniques   • Signal Analysis
• Machine Learning Models & Neural Network Architecture   • Data Visualization

Soft Skills:
• Dependable   • Fast Learner   • Good Communication (Spanish Speaker - Intermediate)

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**: Quantum Mechanics, Electrodynamics, Classical Mechanics, Partial Differential Equations, Solid State Physics, Electronics & Data Acquisition, Thermodynamics
- **Awards:** Summa Cum Laude, President's Scholar, Accepted into the Society of Physics Students (SPS) for recognition of scholarly excellence

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Professional Experience

Researcher | *San Jose State University* **|** San Jose, CA   *(Sept 2019 - Present)*
- Performed independent research with two physics professors at my university
- Research #1: Development of Gaussian Mixture Models in Python
  - Detected spin clusters in high dimensional Ising Model PCA data
- Research #2: Researching the nature of Quantum Entanglement via Python simulations of 3-wave mixing
  - Gave a poster presentation at the College of Science Research Day

Supervisor | *Hollywood Beach Cafe* **|** Oxnard, CA   *(Jun 2018 - Present)*
- Versatile & able to work every position in the restaurant
- Performed managerial duties - payroll, scheduling, customer service, etc
- Analyzed customer traffic trends and created effective scheduling methods that don't under/overstaff
- Performed Cost Analysis, Inventory, and Menu Engineering to effectively manage goods sold/purchased from vendors

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 colloidal membrane viruses during the COVID epidemic
- Solved for the structure and function of a spherical colloidal membrane assembly
- Presented my research to the Virtual Leadership Alliance National Symposium
- Was Awarded the Leadership Alliance Professional Development Badge in recognition for my research