



James Saslow

Physicist & Quantum Engineer

[My Personal Website](#)

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Education

Quantum Technology, M.S.

(Aug 2023 - Present)

San Jose State University

- **Relevant Coursework:** Quantum Computing, Quantum Information
- **Awards:** Quantum Technology NSF Research Traineeship

Physics, B.S.

(Aug 2018 - Dec 2022)

San Jose State University

- **Upper Division Major GPA:** 4.0 / Overall: 3.96
- **Relevant Coursework:** Quantum Mechanics, Solid State Physics, Electrodynamics, Partial Differential Equations, Computational Physics

Professional Experience

Quantum Algorithms Intern | Griffiss Institute | Rome, NY

(Jun - Aug 2023)

- Internship experience at Griffiss Air Force Research Laboratory
- Developed quantum algorithms in Qiskit aimed at solving QUBO problems
- Performed fidelity analysis of IMBQ heavy hexagonal devices

Quantum Foundations 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

Soft Matter 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
- Awarded the Leadership Alliance Professional Development Badge in recognition of my research

Skills

- Strong analytical skills
- Works effectively in collaborative settings
- Fast learner & Self-motivated
- Enthusiastic to explore the quantum computing field
- Quantum algorithms experience
- Interests in both quantum software & hardware

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

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

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

Programming Related Skills :

- Quantum Programming in Qiskit
- Machine Learning & Neural Networks
- Quantum Many-Body Simulations
- Numerical Methods for Partial Differential Equations
- Experience with NumPy, Matplotlib, & pandas packages
- Numerical Analysis & Scientific Computing