Sarah Severinghaus

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EDUCATION

Reed College **August 2023 - May 2027**

Bachelor of Arts, Physics *Portland, OR*

GPA: 3.59/4.0, **Honors:** Commended for Excellence in Scholarship 2023-2024, 2024-2025

Relevant Coursework: Physics 342 Quantum Mechanics I (in progress), Physics 332 Advanced Laboratory II (in progress), Physics 311 Classical Mechanics I, Physics 321 Electrodynamics, Physics 331 Advanced Laboratory I, Physics 202 Modern Physics, Physics 211 Oscillations and Waves, Physics 231 Introduction to Electronics, Math 311 Complex Analysis (in progress), Math 322 Ordinary Differential Equations, Math 202 Vector Calculus, Math 201 Linear Algebra.

Pacific Ridge School **August 2019 - May 2023**

High School *Carlsbad, CA*

Activities: AP Calculus Peer Tutor, co-leader of Math Club, member of SWENext (Society of Women Engineers).

EXPERIENCE

Reed College **October 2023 - Present**

Educational Technology Consultant, DataLab *Portland, OR*

• Supports students, faculty, and staff with python, R, QGIS, and Excel.
• Contributes to the development of educational resources and course content.
• Assists faculty with instructing data-intensive labs.

University of Utah **May 2025 - August 2025**

Student Researcher *Salt Lake City, UT*

• Simulated cloud droplet formation in a cloud chamber with a one dimensional turbulence model.
• Processed and visualized simulation outputs in python.
• Gained experience with high performance computing, atmospheric modeling, and cloud microphysics.

Reed College **August 2024 - December 2024**

Lab Teaching Assistant and Grader, Physics 164 - Stars and Stellar Systems *Portland, OR*

• Assisted students with data analysis and visualization in python during labs.
• Independently instructed telescope observation labs.
• Graded and provided feedback on homework assignments.

Ionis Pharmaceuticals, Inc. **July 2022 - August 2022**

Intern *Carlsbad, CA*

• Examined the relationship between structural properties of oligonucleotide drug candidates and toxicological endpoints using sci-kit learn to train supervised learning classifier models.
• Cleaned and analyzed large data sets and created figures in python.

SKILLS

Languages: Python, R, C/C++

Packages/Frameworks: NumPy, Xarray, Pandas, Scikit-learn, Shiny, SciPy, Matplotlib, Git

Software: Mathematica, VSCode, LabVIEW, Arduino IDE, Jupyter, R Studio, QGIS