

Sarah Severinghaus

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EDUCATION

Reed College <i>Bachelor of Arts, Physics</i>	August 2023 - May 2027 <i>Portland, OR</i>
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 <i>High School</i>	

EXPERIENCE

Reed College <i>Educational Technology Consultant, DataLab</i>	October 2023 - Present <i>Portland, OR</i>
• 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 <i>Undergraduate Researcher</i>	
• 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 <i>Lab Teaching Assistant and Grader, Physics 164 - Stars and Stellar Systems</i>	
• 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. <i>Intern</i>	
• 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