

Technical Skills

Programming	Python (including libraries: SciPy, Matplotlib, NumPy, and Pandas), Google Apps Script, C, Java, AutoHotKey
Numerical Methods (Python)	Least-squares fitting models to data (linear and nonlinear), numerical integration (trapezoid rule, Simpson's rule), solving ODE's (Euler's method, second-order Runge-Kutta method), Fourier analysis, Random number distributions
Software	Igor Pro, Capstone, MS Excel, MS PowerPoint
Hardware	Arduino Uno, Sensors (light, temperature, position), Voltmeter
Editing	L ^A T _E X, JupyterLab, Adobe Photoshop, ImageMagick, ImageJ
Teamwork	Conference for Undergraduate Women in Physics volunteer (2019)

Education and Coursework

2017–2021	(BS) Physics , <i>University of Massachusetts, Amherst, MA. Major GPA 3.82. Cumulative GPA 3.79.</i>
Physics	Computational physics, Quantum computing, Quantum mechanics, Techniques of theoretical physics, Statistical physics, Mechanics, Electricity & magnetism
Mathematics	Statistics, Ordinary differential equations, Multivariate calculus, Linear algebra
2017	Diploma , <i>Mascoma Valley Regional High School, Canaan, NH.</i>

Work and Research Experience

Jan 2019–Present	Researching the time dependence of a soft elastic sheet at a viscous interface. Condensed matter physics research group. <i>Supervised by Prof. Narayanan Menon.</i>
Jan–May 2020	Troubleshooted classwork and provided individualized feedback to students as an Undergraduate Teacher's Assistant for Computational Physics (Python) . Held office hours outside of class. <i>Supervised by Prof. Donald Candela.</i>
May–Aug 2019	Printhead Test Lab Intern. Designed a passive baffle for high-standoff printing applications through qualitative comparison of 300+ prints. Executed various product and print tests, analyzed and communicated the results. <i>Fujifilm Dimatix, Lebanon, NH.</i>
Jan–May 2019	Undergraduate Teacher's Assistant for Computational Physics (Python) . <i>Supervised by Prof. Donald Candela.</i>
Sept–Dec 2018	Mentored 9 freshman physics and astronomy students in solving Newtonian mechanics problems as an Undergraduate Teacher's Assistant for Physics I - Mechanics. <i>Supervised by Prof. Jennifer Ross.</i>
May–Aug 2018	Printhead Test Lab Intern. Scripted a printhead test submission system in Google Apps Script through Google Sheets. Concisely documented standard jetting performance testing procedures. <i>Fujifilm Dimatix, Lebanon, NH.</i>