

Summary: I am a graduate student pursuing a research career in scientific computing and applied mathematics. I am interested in using high performance computing and mathematical models to solve problems relating to clean energy generation, energy storage, and climate modeling. I have experience conducting research in pure mathematics as well as applied and computational physics. I also have substantial teaching and leadership skills from my experience as a tutor and teaching assistant.

Education	B.S. in Mathematics , University of California, Santa Cruz <ul style="list-style-type: none"> • Minor in Physics • GPA 3.9 • Member of the NCAA Cross Country and Track teams 	June 2021
	M.S. in Applied Mathematics and Scientific Computing , University of California, Santa Cruz	June 2022 expected
Experience	Teaching Assistant , University of California, Santa Cruz <ul style="list-style-type: none"> • Held discussion sections and office hours to help students with course-works. Graded and provided feedback to students on exams. • Courses supported: Multivariate Calculus for Engineers. 	Fall 2021
	Summer Intern , Los Alamos National Laboratory X Computational Physics Division <ul style="list-style-type: none"> • Implemented the Rutherford scattering model in a large, C++, Monte Carlo charged particle transport (CPT) code library • Performed code to code verification using two other CPT codes at the laboratory 	Summer 2021
	Math and Physics Tutor , UCSC Learning Support Services <ul style="list-style-type: none"> • Conducted 3 weekly small group tutoring sessions focused on engagement of students • Prepared weekly planning sheets with detailed activities • Courses tutored for include: Waves and Optics, Real Analysis, Abstract Algebra, Linear Algebra, Vector Calculus and Discrete Mathematics. 	2019 - 2021
	Undergraduate Researcher , Polymath Research Experience for Undergraduates <ul style="list-style-type: none"> • Developed a visualization tool for representing convex geometries using circles in the plane • Contributor on a paper with cohort of 12 students and our mentor Professor Kira Adaricheva 	Summer 2020
	Program Mentor , UCSC Learning Support Services <ul style="list-style-type: none"> • Trained and mentored other tutors • Conducted quarterly performance reviews of other tutors 	2019
	ATLAS electronics testing assistant , Santa Cruz Institute for Particle Physics <ul style="list-style-type: none"> • Collected data used to analyze the effects of annealing on silicon strip particle detectors 	2018
Honors	Highest GPA of all UCSC male student athletes <ul style="list-style-type: none"> • Awarded for a GPA of 3.98 at the time 	2019
	CoSIDA Academic All-District <ul style="list-style-type: none"> • Men's Track & Field/Cross Country 	2020
Skills	Programming: C++, Matlab, Python, Fortran, Git L^AT_EX: Proficient in mathematical and scientific document typesetting	