

Sean Riedel
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Summary	I am a motivated, excited, and extremely hardworking graduate student eager to learn as much as I possibly can about the universe. I have experience conducting research in pure mathematics as well as applied and computational physics. I also have substantial teaching experience from planning and facilitating weekly group tutoring sessions for undergraduate classes in math and physics.	
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
Experience	Summer Intern , Los Alamos National Laboratory X Computational Physics Division <ul style="list-style-type: none">• Added Rutherford scattering Monte Carlo method to a large charged particle transport (CPT) code library• Performed a verification and validation study of the CPT capabilities of two codes at the laboratory	Summer 2021
	Math and Physics Tutor , UCSC Learning Support Services <ul style="list-style-type: none">• Facilitated 3 times 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">• Personally responsible for developing a visualization tool for representing convex geometries using circles in the plane• Worked 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">• Responsible for facilitating trainings and mentoring 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 Languages: C++, Matlab, Python, Fortran L^AT_EX: Proficient in mathematical and scientific document typesetting Spanish: I am able to read, write, and speak Spanish at a basic level Mountain Unicycling: I enjoy riding my unicycle in places most people would be scared to hike	