

Sean Riedel

303-243-2252 | sriedel@ucsc.edu

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">• Implemented Monte Carlo methods for charged particle transport (CPT) in C++• Performed verification and validation study of the CPT capabilities of various codes at the laboratory 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 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 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.	Summer 2021 2019 - 2021 Summer 2020 2019
Honors	Undergraduate Dean's Honors , UC Santa Cruz <ul style="list-style-type: none">• Fall 2017, Winter 2018, Spring 2018, Fall 2018, Fall 2019, Winter 2020, Spring 2020, Fall 2020 Highest GPA of all UCSC male student athletes <ul style="list-style-type: none">• Awarded for a GPA of 3.98 at the time CoSIDA Academic All-District <ul style="list-style-type: none">• Men's Track & Field/Cross Country	 2018-2019 2019-2020
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	