

Cristian Ramirez Rodriguez

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EDUCATIONAL BACKGROUND

B.S. in Physics with a minor in Mathematics May 2023 Saint Mary's College of California GPA: 3.96

Relevant Coursework: Computational Physics, Differential Equations, Electronics & Instrumentation, Linear Algebra, Optics, STEM Argument and Research, Thermal & Statistical Physics, Quantum Mechanics

Skills: Python (libraries: Matplotlib, NumPy, pandas, PIL, SciPy, SymPy), R, Excel, Latex, Technical Writing

PROFESSIONAL EXPERIENCE

- April 2024 - Present Lafayette Academy, AP Physics Instructor, Lafayette, CA
- Preparing 7 students weekly in one-on-one sessions for their exams
- July 2023 - Mar 2024 East Bay Innovation Academy, Upper School Teacher, Oakland, CA
- Sole instructor for 125 High School Students in Algebra 1 and Geometry, as well as substitute for physics and computer science.
 - Developed a data-driven math curriculum incorporating several educational technologies and industry tools such as Python and Excel
- Sep 2020 - May 2023 Saint Mary's College of California, Teaching Assistant, Moraga, CA
- (2020-2021) Taught an intro Calculus course for 8 sections of 10 students.
 - (2022-2023) Taught an in-person remedial algebra and spreadsheet course geared towards first-year undergraduate STEM majors for 4 sections of 10.
- Sep 2020 - May 2023 Saint Mary's College of California, Stem Center Tutor, Moraga, CA
- Completed 1000+ hour tutoring 200+ students in upper division Physics, Math, Computer Science, and Data Science courses.

VOLUNTEER EXPERIENCE

- June 2023 - Sep 2023 Physics Consultant for Economics Applications, Inc., Novato, CA
- Synthesized and analyzed data sets, generated thematic maps using python and produced technical reports for a green data center start-up.
- Sep 2020 - May 2023 President of La Hermandad at Saint Mary's College of California, Moraga, CA
- Led a seven-member cross-functional team orchestrating cultural outreach events such as the [Día Del Niño celebration](#) with over 200 attendees and engaging the local community in high-impact activities: food bank volunteering, bone marrow drives, and educational panels leading to me being named the [Latinx Graduation](#) keynote speaker.
- Jan 2021 - June 2021 Volunteer Staff at Oakland International School, Oakland, CA
- Tutored Algebra 1 to high-school students bilingually in English/Spanish

COMPUTATIONAL PHYSICS PROJECTS

2024. [Lagrangian Motion on Rotating Monomial Wires](#). Saint Mary's College of California - 2nd Annual Student Research Conference and Showcase.

2024. [A Naive Model of Covid-19 Spread From A Dry Cough](#). arXiv. 11 Mar. 2024

2023. [Calculating the Mass of Jupiter Through Galilean Observations](#). Saint Mary's College of California - 1st Annual Student Research Conference and Showcase. Winner: Best Group Presentation