

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

- July 2023-present 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 (Google Colab), Latex, and Desmos while maintaining California state standards.
- June 2023- Sep 2023 Economics Applications, Inc., Physics Consultant, Novato, CA
- Interned as Technical Lead and Project Manager for a project to determine the feasibility of deploying micro-data centers in emerging markets.
 - Synthesized, analyzed and interpreted complex data sets to produce technical reports used by customers to attract investors.
- Sep 2022- May 2023 Saint Mary's College of California, Teaching Assistant, Moraga, CA
- Taught a remedial algebra course geared towards first-year undergraduate STEM majors focused on introducing concepts in an interdisciplinary way.
- 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.
- Sep 2020- Dec 2021 Saint Mary's College of California, Teaching Assistant, Moraga, CA
- Taught a virtual introductory Calculus course for 80 students.

VOLUNTEER EXPERIENCE

- 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, organizing two of the largest events on campus, the Guadalupe celebrations with over 500 attendees and 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, Oakland International School, Oakland, CA
- Tutored Algebra 1 to high-school students bilingually in English/Spanish

PROJECTS:

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 - Student Research and Creative Works Conference*

Winner: Best Group Presentation