

Gerardo Lopez Jr.

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School of Physical Sciences

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Education

2025 (Expected) B.S. in Mathematics, Minor in Computer Science

University of California, Irvine

2020 High-School Diploma

McFarland High School

Research Experience

2023 - Present Independent Researcher. *CP-LEADS*, UCI School of Education
Analyze large data clusters with R, follow the steps of a mentor's research project, create/present your own research project/findings.

2023 Research Assistant. *Code-AI*, UCI School of Education
Developed back-end software for project, exposure to AWS structure and framework, and collaborated in coding environment with github.

2023 Research Assistant. *NSF REU Fellow*, UCI School of Education
Observational data collection within a classroom, contributed to grant proposals, and analyzed categorical/quantitative data.

Publications

Baek, C., Saito-Stehberger, D., Nam, A., **Lopez, G.**, Jr, Jacob, S., & uci, m. w. (2023, October 18). Empowering Latinx Elementary School Students with Disabilities: Computer Programming through Culturally Sustaining Curriculum.

<https://doi.org/10.31219/osf.io/k8rty>

Awards/Honors

2020 Mathematics Medallion

2016 - 2020 McFarland High-School Highest Honors

Technical Skills

Programming Languages Python, Matlab, HTML/CSS, JavaScript, R

Frameworks Pandas, NumPy, Flask, React, Streamlit, SQLite

Other Technologies PyCharm, SolidWorks, Deepnote, PyJupyter, Git/Github, Wix, Weebly

Work Experience

Jun. - Aug. 2023 Code-AI Intern

3200 Education Bldg, Irvine, CA 92697

- Built static and dynamic websites using code and third party tools. Collected data within a classroom before analyzing.
- Served as a translator to Spanish speaking students.

Teaching Experience

Jun.-Aug. 2023 Teaching Assistant. *NSF REU Fellowship*, Summer Camp. HTML/CSS, AI Literacy, and computer learning.

Jan.-Mar. 2023 Lab Tutor. *Donald Bren School of Information and Computer Sciences*. Python and standard libraries.

May 2022 - Dec. 2023 Private Python Tutor. API usage, server protocols, databases, and python syntax.

Aug 2018 - Apr 2020 Robotics Coach. *McFarland Middle School*, built VEX robots, autonomy coding, reached Nationals 2018.