

# Rachel Alvarado

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## Education

*University of California Santa Barbara* 2022-present  
3.7 major GPA

*Santa Monica College*, Associate's degree 2020-2022  
3.3 GPA, graduated w/ High Honors

*Eagle Rock High School*, High school diploma 2016-2020  
4.0 GPA

***Environmental Statistics - UCSB*** 2025  
-Understand basic probability and statistics  
-Select statistical analyses for hypotheses  
-Analyze and visualize data using R coding  
-Ensure reproducibility and collaboration  
-Interpret results in environmental contexts

***Geographic Information System (GIS) - UCSB*** 2025  
-capture, manage, analyze and share spatial data  
-create maps based on findings  
-windows proficiency  
-generate clear spacial questions

***Engineering and Environmental Geology - UCSB*** 2023  
-Recording and analyzing aerial imagery  
-Analyzing fire, flood, air quality hazards  
-Analyzing and plotting water level data  
-Examining oil well safety  
-Reporting and presenting findings

***Renewable Energy Systems - UCSB*** 2023  
-Examining economic policies  
-Energy storage  
-Wind, solar, tidal, geothermal energy systems

***Green Building - UCSB*** 2023  
-Systems to reduce energy demand  
-Implementing renewable energy and materials  
-Cost implications  
-Analyzing energy efficient systems

	<b><i>Food Agriculture Environment - UCSB</i></b> -Efficient food growth systems -Seed history impact -Examining Native American history	2024
	<b><i>Flood Risk Analysis - UC Berkeley</i></b> -Flood modeling (GIS) -Assessing flood risk -Nature-based solutions	2024
	<b><i>Physics Laboratory - UCSB</i></b> -Equation use within google sheets - Collaborating with peers - Performing controlled experiments and analyzing results - Plotting data in tables and graphs to find trends	2023
	<b><i>Biology Laboratory - Los Angeles Community College</i></b> -Microscope proficiency -presenting on animal behavior -Osmosis and diffusion -Cellular respiration -Gel electrophoresis	2025
	<b><i>Conservation Planning</i></b> -Monitoring and adaptive management -Developing conservation plans for different species and ecosystems -Miradi proficiency -Fundamental objectives charts and webs -Working with Northern Chumash Council tribe for erosion control	2025
<b>Leadership Experience</b>	<b><i>Environmental Affairs Board - UCSB</i></b> -Sustainability tips -Goleta clean up -Coastal commissions emails -Clothing drive	2025
	<b><i>Leadership in Energy and Environmental Design Member - Certifying Bren Hall UCSB</i></b> -Building air quality audits -Inventory reports -Researching environmental labels	2024

- Communicating with managers of building
- Documenting and reporting findings
- Excel, email, Google

***Choir Board - Eagle Rock High School***

2018-2020

- Planned trips and booked places to perform
- Worked with choir coordinator of school

***Associated Student Body - Eagle Rock High School***

2016-2018

- Classroom announcements
- Organized daily meetings for school events
- Friendly, positive attitude

**Volunteer  
Experience**

***Community Gardening - UC Santa Barbara***

2024

- Weeding, planting, documenting, researching
- Reported on effectiveness of community gardens
- Multi-page report on possible improvements
- Documenting findings through images and videos
- Informing and welcoming visitors

***Food/Game Booths - Eagle Rock High School***

2018

- Selling goods to students, teachers, and families during school events and dances
- Setting up the booths

***Chinatown Tutoring - Eagle Rock High School***

2017

- Tutoring elementary students in science, math, and english
- Communicated with the manager about their progress
- Managing difficult students

***Bridges - Eagle Rock High School***

2018-2020

- Monthly meetings with students coming into highschool
- Mentor-mentee relationships
- Advice about preparing for college applications

***National Honors Society - Eagle Rock High School***

2016-2018

- Monthly meetings to plan school events
- Weekly meetings to discuss volunteering opportunities

