

REBECCA L. MARTINEZ *curriculum vitae*

Undergraduate Researcher and Student Assistant
University of California, Santa Barbara
Office of Education Partnerships
Santa Barbara, CA

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Education

B.S. Environmental Studies, University of California, Santa Barbara
Expected 2026

A.S. Biology *with honors*, Allan Hancock College
May 2024

A.A. Biology *with honors*, Allan Hancock College
May 2023

A.A. Mathematics and Science *with high honors*, Allan Hancock College
May 2021

Information Technology Fundamentals (IT Certificate), Allan Hancock College
May 2024

Programs and Affiliations

Bren–Environmental Studies Fellows Program	2025–2026 cohort
Tau Sigma National Honor Society	since 2025
American Geophysical Union (AGU) Member	since 2025
Promise Scholars Program, UCSB	since 2024
Letters & Science Honors Program, UCSB	since 2024
Student Veterans Association (SVA), UCSB	since 2024
UCSB–Smithsonian Scholars Program (ERES participant 2023; discussion leader/mentor 2024–2025)	2023–2025
Alpha Gamma Sigma Honor Society (AGS) Vice President, Community Service Chair	2019–2024
ACTLA (Association of Colleges for Tutoring & Learning Assistance) Member	since 2021
Lompoc Veteran Advisory Committee (LVAC) Member	since 2017

Teaching and Tutoring Experience

Teaching Assistant, Human Anatomy Open Lab 2023–2024
Allan Hancock College, under Alicia Fox

Managed Friday lab sessions: setup/breakdown, cadaver-lab support
Developed visual study guides and led office hours

Embedded Tutor (TA Support Role) 2020–2024
Allan Hancock College

Botany (Wendy Hadley), Microbiology (online, Dr. Tim Doyle), Human Anatomy (Dr. Len Miyahara), Introductory Chemistry, Organic Chemistry, General Chemistry (Dr. James Houlis), and Physiology and Cellular Biology (Ashley Wise).
Facilitated learning, created materials, led study sessions, held office hours, occasional grading.

Lead Tutor and Tutor 2019–2024
Allan Hancock College, Academic Resource Center & MESA/STEM Center

Delivered one-on-one and group tutoring in biology, chemistry, math, and general education
Promoted to Lead Tutor (2020); trained new tutors; hosted workshops on study skills and time management.

Research Experience

Undergraduate Research Assistant, 199RA Winter 2025–Present
UCSB, under Dr. Iris Holzer Project: *The Role of Mammalian Bioturbators in Soil Formation and Elemental Cycling: Comparing rock-derived N release across the Channel Islands and the Transverse Ranges using an undergraduate-led research framework*

Field sampling (soil, rock); pit digging; bulk density measurements
Prepped rock samples via rock saw for N-release assays
Conducted literature reviews and drafted funding proposals for undergrad internship
Planning AGU Fall Meeting presentation

Research Assistant, Soil Carbon Stabilization Study Spring 2025–Present
UCSB Island Ecology Field Station

Assisted pit digging, bulk density sampling, soil auger collection
Performed USDA soil profile descriptions: color, roots, pores, aggregates
Applied safe sampling protocols and maintained positive morale on long field days

Student Assistant, Office of Education Partnerships Fall 2024–Present
University of California, Santa Barbara

Revised protocols for Fog Harp project
Maintenance and collect cameratrap data for Santa Cruz Island Skunk project
Managed inventory and provided peer support

Peer Mentor, ERES Field Research Workshop, Santa Cruz Island Summer 2024–2025
UCSB–Smithsonian Scholars Program

Guided students in camera-trap/Audiomoth deployment, land navigation, FAIR data practices

Participant, ERES Field Research Workshop, Santa Cruz Island Summer 2023
UCSB–Smithsonian Scholars Program

Participant, Advanced Field Research and Data Science Training, STRI Panama Summer 2023
UCSB–Smithsonian Scholars Program

Completed field methods course and advanced data science training, deployed audiomoths and cameratraps to practice creating an a priori question and completing a mini research project as a team: Comparison of Species Richness and Functional Richness on Barro Colorado Island and Pipeline Road in Panama.

Service and Leadership

Student Representative, Title V Committee 2021–2023
Allan Hancock College

Represented student needs in planning academic support programs

Hiring Committees (Student Rep.) 2023–2024
Allan Hancock College

Contributed to faculty and staff selection processes

Vice President & Community Service Chair, AGS Honor Society 2019–2024
Allan Hancock College

Organized service projects and led state-level initiatives

Outreach Volunteer, Life & Physical Sciences Dept. 2022–2024
Allan Hancock College

Designed and ran hands-on science activities for local K–12

Created educational materials and coordinated event logistics

Awards and Scholarships

UCNRS Field Science Fellowship, UCSB 2025

Wenger Scholarship, UCSB 2025

Gene & Susan Lucas Undergraduate Research Fund, UCSB 2025

G. Allan Hancock Scholarship 2024

Allan Hancock MESA Scholarship 2023

Brander Single Parent Scholarship 2022–2024

Joyce Dendo Veteran Scholarship (Inaugural) 2021

Kathleen D. Loly Service Scholarship 2021

Joan Semelsberger Scholarship 2021–2023

Virginia B. Martinez Memorial Scholarship 2021

AGS Aquarius Honor Society Leadership Award 2021