

Gema Gomez

Undergraduate Student Researcher and McNair Scholar

Agricultural Plant and Soil Sciences Program

California State University, Monterey Bay, 100 Campus Center, Seaside, CA 93955

Tel: (530) 402-3357, Email: gemgomez@csumb.edu

EDUCATION

- August 2023 - present: B.S. program in Agricultural Plant and Soil Sciences, Department of Biology and Chemistry, California State University, Monterey Bay (CSUMB), Seaside CA
- Current GPA: 3.5/4.0
- Dean's List: Fall 2023, Spring 2024
- Relevant coursework: AGPS 128: Introduction to Soil Science, BIO 106: Introduction to Plant Science, AGPS 205: Organic Crop Production, CHEM 109: Introductory Chemistry, RSCH 200: McNair Scholar Research, AGPS 216: Plant Propagation and Production, AGPS 301: Technical Writing for Agriculture

AWARDS/SCHOLARSHIPS

- Undergraduate Research Opportunities Center McNair Scholars Research Funding — 2025
- Sturdy Oil Scholarship — 2024-2025
- Sturdy Oil Scholarship — 2023-2024
- Student Support Services STEM–Health Sciences Scholarship — 2023-2024
- CalKids Scholarship — 2023-2024

SKILLS

- Collecting and processing soil samples from field experiments to run potassium chloride extractions and test for inorganic nitrogen using a microplate spectrophotometer
- Setting up soil incubation experiments; measuring soil respiration and potentially mineralizable nitrogen
- Using field equipment, including soil moisture sensors, soil augers, and soil probes

ORGANIZATIONS

- [TRIO — SSS Program](#)
- [UROC/MCNAIR Scholars program](#)

PROFESSIONAL EXPERIENCE

- Research Assistant, CSUMB Crop Management Lab, Seaside, CA, 2024: Conducting field and lab research exploring the impact of biochar and compost on soil health and crop performance; translating soil health field day documents from English to Spanish to expand project outreach.
- Vegetable Harvester, Adolf Farms, Woodland, CA, 2022: Assisted harvesting vegetables on small diversified family farm
- Project Support Volunteer, [SLEWS FARM](#), Woodland, CA, 2021: Assisted setting up plant and soil learning activities for children's projects