

Guadalupe Diaz-Ortiz

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EDUCATION

Ph.D. Candidate in Horticulture and Agronomy

University of California, Davis

Advisor: Dr. Sara Smith

Expected June 2026

Davis, CA

Master of Science in Agriculture, Specialization in Plant Protection Science

California Polytechnic State University, San Luis Obispo

Advisor: Dr. Paul Jones

June 2021

San Luis Obispo, CA

Bachelor of Science in Biological Sciences

University of California, Riverside

June 2019

Riverside, CA

RESEARCH EXPERIENCE

Doctoral Researcher

UC Davis Department of Plant Sciences

Building and evaluating an agricultural system model using DSSAT to investigate water flow and nitrate transport under agricultural managed aquifer recharge. Conducting parameter sensitivity analysis and optimization using Python.

Sept 2021 - Present

Davis, CA

Graduate Student Researcher

UC Davis Graduate Studies

Collected and analyzed data using R Studio on use and satisfaction of graduate student resources offered through Graduate Studies.

January 2022 - June 2022

Davis, CA

Researcher

Cal Poly SLO Department of Agriculture

Directed controlled atmosphere trials for integrative pest management of stored product pests with the goal of collecting efficacy data to register the treatments as an organic alternative to methyl bromide.

Sept 2020 - June 2021

San Luis Obispo, CA

Research Assistant

Veteran's Administration Medical Center, Riverside

Collected, maintained and statistically evaluated data for ongoing studies including drug evaluations, immunological studies, iron therapy studies and studies on long-term dialysis patient care.

Sept 2017 - June 2018

Riverside, CA

TEACHING EXPERIENCE

Teaching Assistant

UC Davis Department of Plant Sciences

Leading demonstrations of laboratory techniques with an upper-division undergraduate class of 30 students. Evaluating laboratory write-ups and providing critical feedback.

Sept 2022 - Present

Davis, CA

Teaching Assistant

UC Davis Department of Plant Sciences

Sept 2021 - Present

Davis, CA

Mentoring 25 first-year agricultural and environmental science majors each academic year through career exploration and job and internship application document creation. Plan and manage annual career treks to local agriculture-based companies and non-profit organizations.

Teaching Assistant

Sept 2020 - June 2021

Cal Poly SLO Department of Agriculture

San Luis Obispo, CA

Graded and provided feedback on written assignments regarding historical and modern agriculture, including a 10-page term paper. Held weekly office hours to support students throughout the term.

PUBLICATIONS

Diaz-Ortiz G, Atkinson TS, Peek GC, Smith SC. 2024. Enhancing Model Performance: Parameter Sensitivity Analysis and Optimization in Python. *J Ag Sci.* 26:147.

GRANTS

Conservation Agriculture Planning Grants Program

July 2024

California Department of Food and Agriculture

AWARDS AND HONORS

Outstanding Graduate Student Teaching Award

May 2024

UC Davis

Graduate Student Travel Award

Sept 2023

Agricultural Science Association

Jastro Shields Research Award

June 2022

UC Davis

PRESENTATIONS

Diaz-Ortiz G and Smith SC. Modeling Water Flow and Nitrate Transport in Agricultural Managed Aquifer Recharge Using DSSAT. 2023 Annual Meeting of the Agricultural Science Association. Poster.

SERVICE AND OUTREACH

Reviewer

Sept 2023 - Present

California Agriculture

Volunteer, Graduate Student Pantry

Sept 2021 - Present

UC Davis Graduate Studies

Volunteer, Student Farm

Sept 2021 - Present

UC Davis Agricultural Sustainability Institute

Volunteer, Vegetable and Field Crops Lab Demonstration

April 2022

UC Davis Picnic Day

PROFESSIONAL DEVELOPMENT

Seminar on College Teaching

UC Davis

Sept 2023 - Dec 2023

Training Certificate in Decision Support System for Agrotechnology Transfer (DSSAT)

DSSAT Foundation

Sept 2022

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

Member, Agricultural Science Association

March 2022 - Present