

Julie Gonzalez

gonzalez@ucdavis.edu · juliegonzalez.work

Education

April 2019 – August 2023 (anticipated)

Ph.D. in Ecology (Candidate), University of California, Davis

GPA: 3.96

Major Advisor: Dr. Edwin Grosholz, University of California, Davis

January 2018

M.S. in Marine Science, San Francisco State University

GPA: 4.0

Major Advisor: Dr. Katharyn Boyer, San Francisco State University

Co-Advisors: Drs. Andrew Chang and Gregory Ruiz, Smithsonian Environmental Research Center

May 2010

B.S. in Biology, Georgia Institute of Technology

May 2007

Undergraduate studies in Studio Art, University of West Georgia

Positions held

January – June 2023

Lecturer, Estuary & Ocean Science Center, San Francisco State University,

Instructor of Record for BIOL 534 Wetland Ecology

January 2020 – June 2021

Graduate Student Researcher, UC Davis

I was a Co-Technical Lead on a [NERRS Catalyst project](#) working with the South Slough National Estuarine Research Reserve. Using focus groups and interviews, along with compilation of biological monitoring data, the project identified discrepancies in social and management perceptions of estuarine habitats, and what is being measured to assess restoration progress. Based on our novel matrix that links ecological and social metrics of success, we identified monitoring gaps and potential communication strategies for managers.

[Recent article on this project](#)

Winter and Spring 2020

Graduate Student Teaching Assistant, UC Davis

Graduate Teaching Assistant for:

- Introduction to Biology: Ecology & Evolution

The sole TA responsible for introducing and supervising a weekly lab related to the course content, graded all labs as well as midterms and final exams.

- Integrating Environmental Science & Management - Capstone Course

Assisted students through all stages of their senior Capstone project, graded final reports.

September 2020 – August 2022

Margaret A. Davidson Graduate Fellow, San Francisco Bay NERR

I am assessing how increased inundation from sea-level rise and flooding will impact salt marsh communities through field experiments where I experimentally increase inundation. These experiments explore how (1) [high and low marsh habitats and communities](#) respond to increased inundation, and (2) [individual and combined effects of increased inundation and invasive crabs](#) impact a threatened marsh cordgrass.

January 2018 – March 2019

Sea Grant Fellow, California State Coastal Conservancy

I supported a variety of tasks associated with the Southern California Wetlands Recovery Project (SCWRP); determining management and science needs, facilitating a diverse group towards those goals, reviewing/writing technical papers, project management, conducting site visits, GIS cartography, data visualization using R, InDesign, and Illustrator, website design and maintenance. I was involved in the creation of SCWRP's [Regional Strategy 2018](#) (co-author and co-designer), a science-based document containing quantitative objects and management strategies to restore wetlands in southern California. I also envisioned, developed and facilitated a 60+ person workshop on multiple stakeholder views of transient camp impacts on wetlands and watersheds in Ventura County.

August 2015 – December 2018

Graduate student researcher, San Francisco State University

My thesis project explored the impact of the invasive European green crab *Carcinus maenas* on the native cordgrass *Spartina foliosa* in San Francisco Bay, and how the predators of *C. maenas* impact its distribution thus modulating the crabs impact on *S. foliosa*. I collaborated closely with the Invasive *Spartina* Project that is restoring *S. foliosa* throughout San Francisco Bay. I was tangentially involved in eelgrass and oyster restoration projects such as the Living Shorelines projects in San Francisco Bay.

July 2014 – December 2015

Lead Research Technician, UC Davis

I managed the daily organization of efforts to eradicate the invasive European Green Crab *Carcinus maenas* from a lagoon in central California. Involved periodic crab trapping, various experimental assays, management of volunteers, culturing crab zoea in the lab and data collection and analysis. Creation and maintenance of the Green Crab Project community outreach website.

June 2013 – November 2013

Laboratory Assistant, UC Santa Barbara

The project explored the role of transparent exopolymer particles in the carbon sink in the Gulf of Mexico before and after the Deepwater Horizon oil spill.

July 2010 – May 2013

Lead Research Technician & Lab Manager, Georgia Institute of Technology

This project explored community dynamics associated with biogeochemical cycling in the Gulf of Mexico before and after the Deepwater Horizon oil spill.

Grants

[Determining salt marsh restoration success using focus groups of managers and the public, and past data](#)

Co-Author, Technical Lead for Marsh Restoration Ecology

Collaborative Science Catalyst Grant, National Estuarine Research Reserve System, 2020 (\$153,604)

Awards

UC President's Pre-Professoriate Fellowship, University of California, 2022-2023 (\$59,500)

Russell J. and Dorothy S. Bilinski Fellowship, UC Davis/Bodega Marina Laboratory, 2022-2023 (\$25,000)

Margaret A. Davidson Graduate Fellowship, NOAA, 2020-2022 (\$89,732)

Graduate Group in Ecology Fellowship, UC Davis, Fall 2019 (\$6,000)

Jastro-Shields Scholarship, UC Davis, 2019 & 2020 (\$3,000)

William and Linda Sullivan Environmental Sciences Scholarship, UC Davis, Spring 2019 (\$2,000)

State Fellowship, California Sea Grant, 2018-2019 (\$50,900)

Sodexo Scholarship, San Francisco State University, Fall 2017 (\$10,000)

Student Research Grant, Society for Wetland Scientists - Pacific NW Chapter, Spring 2017 (\$1,000)

Sally Casanova Pre-Doctoral Scholarship, California State University, 2016-2017 (\$9,159)

Smithsonian Fellowship, Smithsonian Environmental Research Center, Spring/Fall 2016 (\$8,305 & \$8,200)

COAST travel award, California State University, Fall 2015, Spring & Summer 2017 (\$1,000 & \$1,000)

IRA Travel Award, San Francisco State University, Fall 2016 (\$342)

IRA Research Award, San Francisco State University, Spring 2016 (\$325)

San Francisco Bay Scholarship, San Francisco State University, Fall 2015 & Fall 2016 (\$500)

Publications

Thesis

2018, M.Sc. in Marine Science, Distribution of an invasive crab and implications for cordgrass restoration

Submitted publications

Gonzalez, J.A., E.D. Grosholz, M. Haeffner, V. Robertson-Rojas, S. Schooler, S. Comet, P. Engelmeyer, S. Finley, C.E. de Rivera. (2023). Improving Tidal Marsh Restoration Using Both Stakeholder Perceptions and Ecological Metrics. In review by Ecology & Society.

Gonzalez, J. A., G. M. Ruiz, A. L. Chang, and K. E. Boyer. (2022). Negative effects of a non-native crab on the restoration of cordgrass in San Francisco Bay. In review by Ecological Restoration.

Haeffner, M., S. Finley, C.E. de Rivera, E.D. Grosholz, J.A. Gonzalez, V. Robertson-Rojas, S. Schooler, S. Comet, P. Engelmeyer. (2022). Common ground: similar perceptions across public and managers about the values of estuarine restoration. In review by Ecology and Society.

Refereed publications

Grosholz, E., Ashton, G., Bradley, M., Brown, C., Ceballos-Osuna, L., Chang, A., de Rivera, C., Gonzalez, J., Heineke, M., Marraffini, M. and McCann, L., 2021. Stage-specific overcompensation, the hydra effect, and the failure to eradicate an invasive predator. *Proceedings of the National Academy of Sciences*, 118(12), p.e2003955118.

Sadowski, J., J. A. Gonzalez, S. Lonhart, R. Jeppesen, T. Grimes and E. D. Grosholz. (2018). Temperature induced range expansion of a subtropical crab along the California coast. *Marine Ecology*; e12528. <https://doi.org/10.1111/maec.12528>.

Reports

Lowe, J., E. Stein, E. Beller, J. Collins. [and 16 others, including J.A. Gonzalez as Contributing Author; Designer] (2018) Wetlands on the Edge: The Future of Southern California's Wetlands: Regional Strategy 2018. Prepared by the California State Coastal Conservancy, Oakland, Ca.

Presentations

Invited Talks

Gonzalez, J., A., Brooks A., Comet S., Finley S., Grosholz E.D., Haeffner M., Koren A., Robertson-Rojas, V., Schooler, S., de Rivera, C.E. (2021 November). Determining Salt Marsh Restoration Outcomes using Focus Groups and Ecological Data. Invited Talk presented at the Cape Perpetua Land-Sea Symposium 2021 (remote).

Contributed Talks

Gonzalez, J., A., G. M. Ruiz, A. L. Chang, and K. E. Boyer. (2018 December). Distribution of an invasive crab in San Francisco Bay and implications for cordgrass restoration. Contributed Talk presented at the Restore America's Estuaries National Summit, Long Beach, CA.

Gonzalez, J., A., G. M. Ruiz, A. L. Chang, and K. E. Boyer. (2017 August). Factors affecting the distribution of an invasive crab and its impacts on cordgrass restoration. Poster Session at the annual meeting of the Ecological Society of America, Portland, OR.

Gonzalez, J., A., G. M. Ruiz, A. L. Chang, and K. E. Boyer. (2017 June). A Potential Trophic Cascade and Impacts on Cordgrass Restoration. Contributed Talk presented at the annual meeting of the Society for Wetland Scientists, San Juan, PR.

Gonzalez, J., A., A. L. Chang, L. McCann, E. Pollard, M. Bradley, M. Marraffini, C. E. de Rivera, G. M. Ruiz and E. D. Grosholz. (2015 November). Demonstrating overcompensation in response to intensive removal of an invasive marine crab. Poster session at the annual conference of the Coastal and Estuarine Research Federation, Portland, OR.

Professional Activities and Service

Reviewed for journal:

Oecologia, June 2021

Trainings:

Tools and Techniques for Facilitating Virtual Meetings, September 2020, NOAA Digital Coast Collaborative Science, October-November 2021, NOAA National Estuarine Research Reserve System

How to Explain Science, Share Data and Build Trust: Presentation Skills for Scientists and Public Officials, May 2021, NOAA Digital Coast

Facilitation Basics for Coastal Managers, July 2021, NOAA

Social Science Basics: Conducting Interviews & Writing Survey Questions, March 2023, Coastal Training Program, National Estuarine Research Reserve System

Volunteering:

NOAA Hollings Scholar Program, Research Mentor, Summer 2022

Santa Rosa Junior College Internship Program, Research Mentor, Summer 2021

SFSU RTC Discovery Day, Volunteer, 2014-2017

Marin County Secondary Science Fair, Judge, February 2016

Celebrate the Coast Day, Volunteer Biologist, September 2016

Smithsonian Environmental Research Center Outreach Events, Volunteer, 2015

STEM Teacher and Researcher program (STAR), Research Mentor, Summer 2015 & 2016

California Academy of Sciences, Invertebrate Zoology Department, Collections Assistant, 2013-2014

A member of the science party on the following research cruises:

GOM cruise in the Gulf of Mexico, R/V Oceanus (August 20 - September 16, 2010)

ECOGIG cruise in the Gulf of Mexico, R/V Endeavor (July 2 - July 27, 2011)

ANACONDAS cruise in the Atlantic Ocean, R/V Melville (August 30-October 12, 2011)

ECOGIG cruise in the Gulf of Mexico, R/V Endeavor (May 22 - July 5, 2012 and September 2 - 17, 2012)

Certifications:

NAUI Open Water Diving, May 2015

Motorboat Operator Training Course (MOTC), April 2016