

JULIE GONZALEZ

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EDUCATION

APRIL 2019 - PRESENT

PH.D. IN ECOLOGY, UNIVERSITY OF CALIFORNIA, DAVIS

GPA: 4.0

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 Greg 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 2020 – PRESENT

GRADUATE STUDENT RESEARCHER, UC DAVIS

I am a Co-Technical Lead on a recently awarded NERRS Catalyst grant to Portland State University and working with the South Slough NERR. Using focus groups and interviews, the project will identify a set of social metrics of restoration outcomes, and link to ecological metrics from restoration projects at and around the South Slough NERR. I will compile and categorize ecological monitoring metrics from these sites and, along with the team, create a score cord in order to evaluate projects based on these ecological and social metrics.

SEPTEMBER 2020 – PRESENT

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 time in treatments. I will analyze how high and low marsh habitats respond to increased inundation, and individual and combined effects of increased inundation and invasive crabs impact a threatened marsh cordgrass.

JANUARY 2018 – MARCH 2019

SEA GRANT FELLOW, CALIFORNIA 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 2019 (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 focused on multiple stakeholder views of homelessness impacts on wetlands and watersheds in Ventura County.

AUGUST 2015 – DECEMBER 2017

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* impacts its distribution thus modulating the crabs impact on *S. foliosa*. I collaborated closely with the Invasive *Spartina* Project who is undertaking a large *S. foliosa* restoration effort in San Francisco Bay. I was tangentially involved in several other restoration efforts with my major advisor, including the Living Shorelines projects in San Francisco Bay, and various eelgrass and oyster restoration projects.

JULY 2014 – DECEMBER 2015

LEAD RESEARCH TECHNICIAN, UC DAVIS

I managed 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

Margaret A. Davidson Fellowship, NOAA, 2020-2022 (\$89,732)
Graduate Group in Ecology Fellowship, UC Davis, Fall 2019 (\$6,000)
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)

JOB-RELATED SERVICE

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

PUBLICATIONS

Thesis

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

Publications in prep

Gonzalez, J. A., G. M. Ruiz, A. L. Chang, C. E. de Rivera, E. D. Grosholz, E. A. Pollard, and K. E. Boyer. (2020). Refugia influence the distribution of a non-native crab in an urbanized estuary. Manuscript to be submitted to Marine Ecology Progress Series.

Submitted publications

Gonzalez, J. A., G. M. Ruiz, A. L. Chang, and K. E. Boyer. (2020). Negative effects of a non-native crab on the restoration of cordgrass in San Francisco Bay. Manuscript submitted to Restoration Ecology.

Refereed publications

Edwin Grosholz, Gail Ashton, Marko Bradley, Chris Brown, Lina Ceballos-Osuna, Andrew Chang, Catherine de Rivera, **Julie Gonzalez**, Marcella Heineke, Michelle Marraffini, Linda McCann, Erica Pollard, Ian Pritchard, Gregory Ruiz, Brian Turner, Carolyn Tepolt. (2021). Stage-Specific Overcompensation, the Hydra Effect and the Failure to Eradicate an Invasive Predator. Accepted, PNAS.

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

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

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