

Daniel Olivares Zambrano

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Education

University of Southern California, Los Angeles
PhD Student in Marine Biology and Biological Oceanography, Summer 2021-

California State University Los Angeles
Master of Science in Biology, Spring 2021

California State University Monterey Bay, Spring 2019
Bachelor of Science Biology: Ecology Evolution and Organismal Biology
Minor. Education: Teaching and Learning

Universidad de Cordoba, Spain, 2017-2018
Gilman Europe Scholar

Research Experience

Coral Symbiont Evolution, University of Southern California, Los Angeles, CA. 7/1/21-.

Mentor: Dr. Carly Kenkel

Project(s). I am starting a project to identify members of the family Symbiodiniaceae, through ITS2 amplicon sequencing, in *Montipora digitata* that were bleached. This project is part of my PhD and it is part of a larger effort to try to understand if *Montipora digitata* symbiont type shuffling can be transgenerationally inherited in response to thermal stress.

In addition, I have started a project to identify population level differentiation amongst A type symbionts of *Porites asterooides* and have been working on isolating and culturing symbionts for future experimental evolution projects.

Relevant skills. Linux Shell Script, R, Microscopy, Autoclave, Plating, Microbial Extraction.

Rockfish Speciation Genomics, California State University Los Angeles, Los Angeles, CA 8/20/20-. **Mentor:** Dr. Andres Aguilar

Project(s): Using comparative genomics, compare species pairs of rockfish overlapping in geographical range but found at different depths to identify genetic islands of divergence (based on FST, Dxy, dN/dS).

Relevant Skills: Linux Shell Script, R, PCR, DNA Library Prep, qPCR.

Awards and Honors

2022 – CSU Chancellor’s Doctoral Incentive Program Fellowship

2022 – Honorable Mention – Ford Foundation Predoctoral Graduate Research Fellowship

2022 – Bakus Graduate Fellowship (\$3,000)

2022 – Wrigley Institute Fellowship (\$6,000)

2021 – Honorable Mention - National Science Foundation Graduate Research Fellowship Program (GRFP)

2021 - Dornsife Graduate School Fellowship (\$33,000 + tuition/fees)

2021 - UCSB Doctoral Scholars Fellowship (\$24,000 + tuition/fees)
 2021 - UCR Dean's Distinguished Fellowship Award (\$23,661 + tuition/fees)
 2021 – Finalist - SICB Ecology and Evolution Ray Huey Best Student Presentation
 2020 - Stanford Biology Preview Program
 2020 - David Cameron Fisher Memorial Graduate Fellowship (\$1,000)
 2020 - CSULA Biotechnology Certificate
 2020 - NIH RISE MS-PhD Fellowship - *National Institute of General Medical Sciences of the National Institute of Health under Award Number R25GM061331* (\$26,000)
 2020 - Sally Casanova Pre-Doctoral Scholarship (\$3,000)
 2020 - CSU COAST Graduate Research Award (\$3,000)
 2020 - NOAA CIMEC Scholarship (\$1,000)
 2019 - CSUMB Campus Delegate for CSU Research Competition
 2019 - TRIO SSS Ceremony Speaker
 2019 - CSUMB Student Affairs Award
 2019 - CSUMB Outstanding Future Alumni Award
 2019 - Nominated – CSUMB Alumni Vision Award
 2018 - Benjamin A. Gilman International Scholarship (\$5,000)
 2018 - Hispanic Scholarship Fund (\$5,000)
 2018 - CSUMB Undergraduate Research Opportunities McNair Scholar
 2018 - Pennsylvania State University Summer Research Opportunities Scholar
 2018 - CSU Louis Stokes Alliance for Minority Participation Proud Scholars Award
 2018 - Tri County Vision Scholarship (\$2,500)
 2017 - CSUMB Fraternity of the Year, Gamma Zeta Alpha Fraternity Inc.
 2017 - CU Boulder Summer Multicultural Access to Research Training Scholar
 2016 - CSUMB TRIO SSS SACNAS Conference Travel Award
 2016 - CSUMB Fraternity of the Year, Gamma Zeta Alpha Fraternity Inc.
 2015 - Yukon and Clemence Chow Scholarship (\$1,200)
 2014 - CSUMB Housing and Residential Life Scholarship (\$1,200)

Publications

Olivares-Zambrano, D., Daane, J., Hyde, J., Sandel, M.W., Aguilar, A. (2022). Speciation genomics and the role of depth in the divergence of rockfishes (*Sebastes*) revealed through Pool-seq analysis of enriched sequences. *Ecology and Evolution*. DOI: 10.1002/ece3.9341
 Estien, C. O., Quintana, B., & Olivares-Zambrano, D. (2022). Reimagining the Broader Impacts Criterion in the NSF Graduate Research Fellowship Program. *Frontiers in Education*. <https://doi.org/10.3389/feduc.2022.977836>

Poster Presentations

Olivares-Zambrano, D., Timmons, C., Kenkel, C.D., Quigley, K.M. (2022). Fitness benefits in coral juveniles through transgenerational inheritance of shuffled symbiont communities in the coral *Montipora digitata*. Society for Integrative and Comparative Biology.
Olivares-Zambrano, D. Aguilar, A. Hyde, J. (2020) Finding the right home: Depth as a driver of speciation in the genus *Sebastes*. Society for Integrative and Comparative Biology, Virtual.

Meeting Presentations

- Olivares-Zambrano, D.** Aguilar, A. Hyde, J. (2020) Finding the right home: Depth as a driver of adaptive evolution in the genus *Sebastes*. *Western Society of Naturalists* Virtual.
- Olivares-Zambrano, D.** Aguilar, A. Hyde, J. (2020) Finding the right home: Depth as a driver of adaptive evolution in the genus *Sebastes*. *Society for the Advancement of Chicanos/Hispanics and Native Americans in Science*, Virtual.
- Olivares-Zambrano, D.** Aguilar, A. Hyde, J. (2020) Finding the right home: Depth as a driver of adaptive evolution in the genus *Sebastes*. *CSULA Symposium*, California State University Los Angeles.
- Olivares- Zambrano, D.** Jelga, T. (2019) Toxin sensitivity of sea anemone shaker channels. *CSU Symposium*, University of California Los Angeles.
- Olivares-Zambrano, D.** Jegla, T. (2019) Toxin sensitivity of sea anemone shaker channels. *School of Natural Sciences Capstone Presentations*, California State University Monterey Bay.
- Olivares-Zambrano, D.** Jegla, T. (2019) Toxin sensitivity of sea anemone shaker channels. *California State University Monterey Bay Research Showcase*, California State University Monterey Bay.
- Olivares-Zambrano, D.** Jegla, T. (2018) Toxin sensitivity of sea anemone shaker channels. *Institute on Teaching and Mentoring Conference*, Arlington, Virginia.
- Olivares-Zambrano, D. Jegla, T.** (2018) Toxin sensitivity of sea anemone shaker channels. *Society for Advancement of Chicanos/Hispanics and Native Americans in Science*, San Antonio, Texas.
- Olivares-Zambrano, D.** Calhoun, D.M. Johson, P. (2017) Tetrodotoxin effects on nematodes that infect genus *Taricha*. *Summer Multicultural Access to Research Training Research Symposium*, University of Colorado Boulder.

Oral Presentations

- Logan, C. (2019). Galapagos corals: Canaries in the coal mine. *Moss Landing Marine Laboratories Seminar Series*. **(Research Featured)**
- Olivares- Zambrano, D.** Jelga, T. (2019) Toxin sensitivity of sea anemone shaker channels. *School of Natural Sciences Capstone Presentations*, California State University Monterey Bay.
- Olivares-Zambrano, D.** Jegla, T. (2019) Toxin sensitivity of sea anemone shaker channels. *CSU Research Competition*, California State University Fullerton.
- Olivares-Zambrano, D.** Jegla, T. (2019) Toxin sensitivity of sea anemone shaker channels. *California State University Monterey Bay Research Showcase*, California State University Monterey Bay.
- Olivares-Zambrano, D.** Jegla, T. (2018) Toxin sensitivity of sea anemone shaker channels. PSU Summer Research Opportunities Program Symposium, The Pennsylvania State University Main Campus
- Olivares-Zambrano, D.** Calhoun, D.M. Johson, P. (2017) Tetrodotoxin effects on nematodes that infect genus *Taricha*. *Leadership Alliance National Symposium*. Hartford, Connecticut.

Cofounder - CSUMB McNair Scholars Alumni Peer Mentoring Program, California State University Monterey Bay, 2020-

- Mentor several CSUMB McNair Scholars through the graduate school application and/or career search process of their final year in undergrad.
- Cofacilitated three workshops, on a virtual basis, as part of a seminar series for the start of the program. These workshops are titled, *The Importance of Health and Social Support in*

Graduate School, Issues of Power, Diversity and Inclusion and Sharing your Research and Journal and Conference Presentations.

- Cofacilitated a summer workshop series called, *Rehumanizing & Decolonizing Scholarship: Understanding Our Roles as Researchers*.

Graduate Grading Assistant - Microbiology 2010, California State University Los Angeles, Spring 2020

- Graded exams and assignments for Microbiology 2010 for the Spring 2020 semester.

Research Consultant - John F. Kennedy Memorial Library, California State University Los Angeles, 2019-2020

- Provided support with making library resources (journals, databases, search engines, etc.) accessible to CSULA students on a drop-in appointment basis.
- Tutored CSULA students with writing format styles.

Peer Mentor - TRIO Student Support Services | STEM-Health Sciences, California State University Monterey Bay, 2015-2016; 2018-2019

- Provided mentoring and tutoring support for a caseload of about 40 mentees.
- Extended my mentoring and tutoring supporting support to all participants of the program.
- Provided clerical support for the College Support Programs and TRIO SSS at CSUMB
- Developed workshops and databases to introduce undergraduate research to TRIO SSS participation
- Worked with UROC to bridge connections with TRIO SSS to provide introductory research accessibility to participants of TRIO SSS.

Ambassador - Undergraduate Research Opportunities Center, California State University Monterey Bay, 2018-2019

- Regularly presented to a wide range of classes at CSUMB about the Undergraduate Research Opportunities Program (UROC) to increase participation in the program.
- Participated in informal interviews for the UROC Research Rookies Program, designed to increase participation in research of 1st year CSUMB students.

Student Assistant - TRIO Student Support Services | STEM-Health Sciences, California State University Monterey Bay, 2016-2017

- Provided clerical support for the College Support Programs and TRIO SSS at CSUMB.
- Occasionally I supported participants of TRIO SSS with tutoring and mentoring services.

SCUBA Diving International Open Water Certificate, 2021

Post Baccalaureate in Biotechnology Certificate, 2020

Certificates

Leadership and Service

Professional Service

Panelist – Wrigley Institute for Marine Science REU

Speaker – Pathways to PhD

- Was a speaker for a pathway to PhD event hosted by our Marine and Environmental Biology section. I shared my experiences getting into graduate school.

Mentor – Society of Integrative and Comparative Biology

- I mentored two students during the Society of Integrative and Comparative Biology Meeting 2021. I gave advice about meetings, networking and the graduate school application process. And I continue to do so after the conference.

Speaker – Citrus College

- Invited to speak to introductory biology course about my journey to graduate school.

Coleader/Founder - University of Southern California's Marine and Environmental Biology Department Open House Committee -

- I pitched, cowrote a draft and have been leading a committee of faculty and graduate students to organize and host our first ever Open House event. This event is meant to target underrepresented scholars from Minority Research Programs at dozens of universities across the country. The overall goal is to educate invited participants about the graduate school application process and about applying to MEB graduate programs. This is to increase the amount of diverse scholars that interview and are recruited among the graduate student body in our department.

Coleader – University of Southern California's Marine and Environmental Biology Department Latinx Heritage Month Committee -

- I colead an effort with graduate students and faculty to create weekly newsletter educational material about latinx issues in the context of academia and beyond. The inspiration for the four weeks of content was based on the lack of representation at the student body and faculty level for our MEB department and the entire College of Arts and Sciences at USC.
- Specifically, I lead an effort called Cuentos/Contos (short stories). I interviewed 12 Latinx biological sciences scholars at the graduate, post doc and assistant professor levels. The short stories were shared weekly and featured several new scholars. Overall, these short stories increased the visibility and unique aspects of Latinidad in the biological sciences.

Student Participant in Organizing Committee – iDigBio –

- I am student participant for organizing a SACNAS Summer 2021 Bioblitz event and SACNAS 2021 NDiSTEM Workshop about bioblitz community science events.
- I am also involved in reaching to potential speakers and will be contributing to moderating and facilitating a discussion about using iNaturalist in our SACNAS 2021 NDiSTEM Workshop.

Panelist – GEM Scholars Program USC

Reviewer - Society for the Advancement of Chicanos/Hispanics & Native Americans in the Sciences President, 2021-

- I volunteered to judge and score session proposals, abstracts for presentations and travel scholarship applications for the SACNAS NDiSTEM 2021 conference.

President - Society for the Advancement of Chicanos/Hispanics & Native Americans in the Sciences President, California State University Los Angeles Chapter, 2019-

Public Relations Chair - Society for the Advancement of Chicanos/Hispanics & Native Americans in the Sciences, California State University Los Angeles Chapter, 2019-2020

Secretary - Gamma Zeta Alpha Fraternity Inc. Lambda Chapter, California State University Monterey Bay, 2015-2017

Community Service Chair, Gamma Zeta Alpha Fraternity Inc. Lambda, California State University Monterey Bay, 2015-2017

Multi-Greek Council Chair - Gamma Zeta Alpha Fraternity Inc. Lambda Chapter, California State University Monterey Bay, 2015-2017

Outreach Service

Mammal Specimen Volunteer - Natural History Museum Los Angeles County, 2019

Seaside Middle School Service Learner Tutor - Seaside Middle School, 2019

Santa Cruz County Commitment Volunteer - California State University Monterey Bay, 2019

Recruitment in Science Education (RISE) Service Learner Tutor - North Salinas High School, 2018

Marachar Por La Ciencia Voluntar (March for Sciences Volunteer) - Cordoba Spain, 2018

Reach the World RTW Traveler - Reach The World, 2018

Pacific Grove Museum of Natural History Science Saturday Volunteer - Pacific Grove, 2017

Santa Cruz County Commitment Volunteer - California State University Monterey Bay, 2017

Santa Cruz County Commitment Volunteer - California State University Monterey Bay, 2016

Return of the Natives Monterey Bay Half Marathon Cleanup Volunteer - California State University Monterey Bay, 2016

Pursuit Expo Volunteer - California State University Monterey Bay, 2016

Monterey Country Rape Crisis Center Tabling for Consensual Safe Sex - California State University Monterey Bay, 2016

Loma Linda University Patient Unit Volunteer - Loma Linda University, 2016

California Academic Decathlon Speech Judge - California State University East Bay, 2016

Pursuit Expo Volunteer - California State University Monterey Bay, 2015

Workshops

Cervantes, A.T. Perez, A. **Olivares-Zambrano, D.** (2021). Standing Your Ground as a Graduate Student, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Delgado, A. Graham, Jasmin. **Olivares-Zambrano, D.** (2021). BIPOC in Marine Sciences Forum. POSea 2021 Meeting.

Perez, A. Cervantes, A.T. **Olivares-Zambrano, D.** (2021). Rehumanizing/Decolonizing Broader Impacts. *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay.

Olivares-Zambrano, D. Perez, A. Cervantes, A.T. (2021). Reflecting on Broader Impacts in your Discipline, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Perez, A. Cervantes, A.T. **Olivares-Zambrano, D.** (2021). Implementing Tools to Rehumanizing/Decolonize your Broader Impacts, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Cervantes, A.T. Perez, A. **Olivares-Zambrano, D.** (2021). Presenting your broader impacts, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Professional Affiliations

Olivares-Zambrano, D. Perez, A. Cervantes, A.T. (2020). Sharing your Research and Journal and Conference Presentations, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Cervantes, A.T. Perez, A. **Olivares-Zambrano, D.** (2020). Issues of Power, Diversity, and Inclusion, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Perez, A. Cervantes, A.T. **Olivares-Zambrano, D.** (2020). The Importance of Health and Social Support in Graduate School, *McNair Scholars Alumni Peer Mentoring Program*, California State University Monterey Bay

Olivares-Zambrano, D. Cervantes, A.T. (2019). Research Opportunities Workshop. *Undergraduate Research Opportunities Center*, California State University Monterey Bay

Olivares-Zambrano, D. Reyes-Gallegos, E. (2019). Research Opportunities Workshop. *TRIO Student Support Services*, California State University Monterey Bay

2020 - International Coral Reef Society

2020 - American Society for Ichthyologists and Herpetologists

2020 - American Association for the Advancement of Science

2020 - Western Society of Naturalists

2020 - Society for Integrative and Comparative Biology

2020 - Society for the Study of Evolution

2020 - California State University Council on Ocean Affairs Science & Technology

2020 - Cooperative Institute for Marine Ecosystems

2019 - Natural History Museum Los Angeles County

2019 - California State University Los Angeles JFK Memorial Library

2018 - Pennsylvania State University Summer Research Opportunities Program

2018 - California State University Monterey Bay Undergraduate Research Opportunities Center

2018 - McNair Scholars Program

2018 - Reach the World

2018 - Institute of International Education

2018 - Hispanic Scholarship Fund

2017 - Louis Strokes Minority Participation

2017 - University of Colorado Boulder Summer Multicultural Access to Research Training

2017 - Leadership Alliance Summer Research Early Identification Program

2017 - California State University Monterey Bay Education Abroad

2016 - Society for Advancement of Chicanos/Hispanics and Native Americans in Science

2015 - TRIO Student Support Services

2015 - Gamma Zeta Alpha Fraternity Inc.

2011 - Pomona College Academy for Youth Success

Languages

Spanish (Fluent)