

Jayslen S. Serrano

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EDUCATION

Master of Science in Biology

California State University, Northridge | 2017 – 2020

Thesis project: The physiological response of tropical macroalgae to abiotic stressors

Bachelor of Arts in Biology

California State University, Northridge | 2013 – 2016

WORK EXPERIENCE

Arizona State University - Hawai'i Monitoring and Reporting Collaborative (HIMARC)

Research Specialist | 2021 –

- Contributing to social-ecological assessments of nearshore ecosystems in Hawai'i
- Synthesizing fish and benthic survey datasets for application to ongoing management in Hawai'i
- Working closely with researchers and collaborators from HIMARC

Mo'orea Coral Reef Long Term Ecological Research Network

- Annual benthic community surveys
- Carbonate chemistry control and measurements of seawater samples
- Maintenance and setup of coral gardens, mesocosms, and outdoor flumes

Field Researcher | 2021

- Instructing and training new laboratory technician
- Instructing and training incoming graduate students
- Installation and collection of coral settlement tiles

Graduate Researcher | 2017 – 2020

- Algal collection and preparation for CHN analysis and delta-C 13
- Carbon Concentrating Mechanisms research and analysis on reef species

- Computational code development for efficient data structure and statistical analysis
- Photosynthesis and respiration measurements on reef species

Research experience for undergraduates | 2015 – 2016

- Assisting graduate students on various research projects
- Buoyant weighing reef species
- Independent research project measuring the effects of ocean acidification on two calcifying reef species

TEACHING EXPERIENCE

Teaching Assistant

- 2019 Introductory Biology for Non-majors Online Lab – California State University, Northridge
 2018 Introductory Biology for Non-majors Online Lab – California State University, Northridge
 2017 Introductory Biology for Non-majors Lab – California State University, Northridge

Graduate Assistant

- 2019 BIOL 422 Physiological Ecology – California State University, Northridge
 2019 BIOL 404 Phycology – California State University, Northridge
 2018 BIOL 404 Phycology – CSU Catalina Semester hosted by CSUN

Guest Lectures

- 2019 BIOL 404 Phycology – California State University, Northridge
 2018 BIOL 404 Phycology – California State University, Northridge
 2018 BIOL 429 Marine Ecology – California State University, Northridge

AWARDS

- | | | |
|------|---|-------|
| 2019 | Graduate Student Travel Funding Award | \$500 |
| 2019 | CSUN Student Travel Funding Award | \$600 |
| 2019 | Graduate Student Travel Funding Award | \$500 |
| 2019 | CSUN Student Travel & Academic Research (STAR) Award | \$600 |
| 2018 | CSU Council Ocean Affairs, Science & Technology (COAST)
Graduate Student Travel Program Award | \$500 |
| 2018 | Thesis Support Program Award | \$800 |
| 2016 | CSUN Student Travel & Academic Research (STAR) Award | \$500 |
| 2014 | CSU Council Ocean Affairs, Science & Technology (COAST)
Undergraduate Student Research Support Program Award | \$500 |

PROFESSIONAL PRESENTATIONS

Serrano, JS & Carpenter, RC. 2018. Poster: The effects of ocean acidification and temperature on the growth and photosynthetic performance of tropical macroalgae. Benthic Ecology Meeting, St. John's, Newfoundland, Canada.

Serrano, JS & Carpenter, RC. 2018. Talk: Effects of temperature and ocean acidification on the growth and photosynthetic performance of *Sargassum pacificum* and *Turbinaria ornata*. Western Society of Naturalists, Tacoma, WA.

Serrano, JS & Carpenter, RC. 2018. Talk: Effects of ocean acidification and temperature on the growth and photosynthetic performance of two tropical macroalgae. Moorea Coral Reef LTER All Investigators Meeting, Santa Barbara, CA.

Serrano, JS & Carpenter, RC. 2018. Talk: Effects of ocean acidification on growth and carbon physiology of *Turbinaria ornata*. CSUNposium, Northridge, CA.

Serrano, JS & Carpenter, RC. 2017. Talk: The effects of ocean acidification on carbon physiology and growth of *Turbinaria ornata* and *Sargassum pacificum*. Moorea Coral Reef LTER All Investigators Meeting, Santa Barbara, CA.

Serrano, JS & Carpenter, RC. 2017. Poster: Effects of ocean acidification on growth and carbon physiology of *Turbinaria ornata* and *Sargassum pacificum*. Western Society of Naturalists, Pasadena, CA.

Serrano, JS & Carpenter, RC. 2016. Poster: Two coral reef calcifiers show contrasting responses under increased pCO₂ and temperature. CSUNposium, Northridge, CA.

Serrano, JS & Carpenter, RC. 2016. Poster: Two coral reef calcifiers show contrasting responses under increased pCO₂ and temperature. Benthic Ecology Meeting, Portland, ME.

PROFESSIONAL SERVICE

2020	Judge at the 7 th Annual Portola HGM Science Fair
2018 – 2019	Student representative of Moorea Coral Reef Long Term Ecological Research Program
2018	Secretary of CSUN Marine Biology Graduate Student Association (MBGSA)

PROFESSIONAL AFFILIATIONS

Western Society of Naturalists
Benthic Ecology Meeting Society
Associate of the Sciences of Limnology and Oceanography
Women in Science

SKILLS AND CERTIFICATIONS

Boating: Small boat operator

SCUBA: PADI Open Water, AAUS Scientific Diver (100+ Dives), CPR, Emergency O₂, AED, First Aid

Software: ImageJ, Microsoft Office

Data Analysis Programs: Proficient in R studio, Excel

Languages: Fluent in Spanish (reading, writing, speaking)