

## Griffin Srednick

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### EDUCATION

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<i>The University of Melbourne</i> <b>PhD Biology</b> Advisor: Stephen Swearer	2020 – present
<i>California State University, Northridge</i> <b>M.S. Biology</b> Advisor: Mark Steele	2014 – 2018
<i>California State University, Monterey Bay</i> <b>B.Sc. Marine Science</b> , Minor: Outdoor Education/Recreation Advisor: Corey Garza	2009 – 2014

### PEER-REVIEWED PUBLICATIONS

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- Srednick, G.**, Cohen, A., Diehl, O., Tyler, K. & Swearer, SE. (2023). Habitat attributes mediate herbivory and influence community development in algal metacommunities. *Ecology*, e3976.
- Srednick, G.**, Davis, K. & Edmunds, PJ. (2023). Asynchrony in coral community structure contributes to reef-scale community stability. *Scientific Reports*, 13, 2314.
- Srednick, G.** & Steele, M.A. (2022). Macroalgal physical structure predicts variation in some attributes of temperate fish assemblages better than macroalgal species composition. *Marine Biology*, 169, 147.
- Srednick, G.**, Bergman JL, Doo SS, Hawthorn MJ, Ferree R, Rojas R, Arias, Edmunds PJ, and Carpenter RC. (2020). Shallow coral reef free ocean carbon enrichment: Novel in situ flumes to manipulate pCO<sub>2</sub> on shallow tropical coral reef communities. *Limnology and Oceanography: Methods* 18.
- Srednick GS**, Steele MA. (2019). Macroalgal height is more important than species identity in driving differences in the distribution and behavior of fishes. *Marine Ecology Progress Series* 613:139–149
- Srednick G.** and Edmunds PJ. Macroalgal associational refuge depends on coral colony size. In review: *Coral Reefs Notes*
- Srednick G.** and Swearer SE. Protection and temperature variation promote temporal stability in a marine reserve network. In review: *Conservation Biology*

### PROFESSIONAL ACTIVITIES

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#### Research Positions:

Aug 2019 – Dec 2020: **Research Technician**

National Science Foundation – Mo’orea Coral Reef Long Term Ecological Research Program – PI’s: Peter J. Edmunds, Robert Carpenter – conducted and oversaw extensive boating, diving, and research operations. Contributed to and maintained long-term datasets, detailed benthic surveys, use and maintenance of maritime equipment and oceanographic instrumentation.

**Aug 2017 – Jun 2019: Research Technician**

National Science Foundation Ocean Acidification – PI's: Peter J. Edmunds, Robert Carpenter – conducted extensive boating and diving operations inside and outside reef passes, towing 2-ton floating platforms at sea, construction/maintenance/repair to on-land and at-sea aquariums, electrical and solar systems, etc., carbonate chemistry methods, use and maintenance of oceanographic instrumentation, domestic and international shipping and travel logistics, large dataset management and analysis.

**May – July 2017: Seasonal Biological Technician**

Kelp Forest Monitoring Program – Channel Islands National Park – PI: David Kushner – extensive diving operations on live-aboard vessel at Channel Islands, comprehensive kelp forest species identification and survey methods, data management and quality control, group management.

**Jan – May 2017: Field Biologist and Data Management Assistant**

Resource Conservation District of the Santa Monica Mountains – Supervisor: Rosi Dagit – fish and invertebrate stream surveys. February 2017 – present. 3-5hr per week

**Jan 2015 – May 2017: Research Assistant**

San Onofre Nuclear Generating Station Mitigation and Monitoring Project – PI: Mark A. Steele – subtidal fish surveys, fish collection via spear, fish demographic processing and otolith measurements.

**May 2015 – Sep 2016: Research Assistant**

Size-selective mortality of sex-changing fishes, National Science Foundation Project – PI: Mark A. Steele – extensive diving operations, constructing, surveying, and stocking artificial reefs with small temperate reef fish, constructing large underwater cages.

**May – Aug 2015: National Science Foundation Research for Undergraduates**

Mentored undergraduate students on project assessing influence on algal structure on fish communities

**July 2014: Research Assistant**

CSU Monterey Bay – PI's: Tom Oliver & Cheryl Logan – thermal tolerance in corals, tropical reef ecology – remote field and laboratory operations in American Samoa.

**June – Aug 2013: Research Assistant**

Ichthyology Lab – Moss Landing Marine Labs – PI's: Scott Hamilton & Devona Yates – performed subtidal SCUBA research, video analysis, basic statistical analysis, and crustacean husbandry

**Jan 2013 – May 2014: Undergraduate Research Intern**

Marine Landscape Ecology Lab – CSU Monterey Bay – PI: Corey Garza – Monterey operations for California Department of Fish and Wildlife Dungeness Crab Larval Recruitment Project, daily collection and processing of specimens from light trap, management, analysis, and presentation of data.

**Teaching Positions:****July 2022 – present: Casual demonstrator**

University of Melbourne – First years biology BIOL10011 & 10012  
University of Melbourne – Ecology ECOL20003

**Jan 2015 – May 2017: Teaching Associate**

CSU Northridge – Biology 101L: General Biology for non-majors

Aug 2015 – May 2017: **Graduate Assistant**

CSU Northridge – Biology 322: Evolutionary Biology; Biology 529: Marine Ecology, Biology 100

May 2016: **Guest Lecturer**

CSU Northridge – Biology 322: Evolutionary Biology

## PRESENTATIONS

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### Conference Oral Presentations:

- Structural complexity and spatial heterogeneity mediate herbivory and influence asynchrony in algal metacommunities. **Srednick G.**, Swearer S.
  - 2021 Western Society of Naturalists – Virtual
- Macroalgal associational refuge depends on coral colony size. **Srednick, G.**
  - 2020 Western Society of Naturalists – Virtual
- Influence of the structure of algae on the distribution and behavior of fishes. **Srednick G,** Steele MA
  - 2016 Western Society of Naturalists – Monterey, CA
  - 2016 USC Wrigley Symposium – Los Angeles, CA
- Influence of the structure of an invasive alga on the distribution of fishes at Santa Catalina Island. **Srednick G,** Steele MA
  - 2016 Southern California Academy of Sciences Annual Meeting – Los Angeles, CA
  - 2016 20<sup>th</sup> Annual Student Research and Creative Works Symposium – Northridge, CA
  - 2015 Western Society of Naturalists – Sacramento, CA
  - 2015 USC Wrigley Symposium – Los Angeles, CA
- A Latitudinal Examination of *Metacarcinus magister* (Dungeness crab) Megalopae Recruitment through abiotic factor analysis on the Central California Coast. **Srednick G.**, Garza C.
  - 2014 CSU Monterey Bay Capstone Festival – Seaside, CA

### Invited Talks:

- Influence of the structure of algae on the distribution and behavior of fishes. **Srednick G.**
  - 2017 University of California, Berkeley Mo'orea Seminar Series – Mo'orea, French Polynesia
  - 2016 USC Wrigley Fellowship – Saturday at the Lab
  - 2015 USC Wrigley Fellowship – Saturday at the Lab

### Poster Presentations:

- A Latitudinal Examination of *Metacarcinus magister* (Dungeness crab) Megalopae Recruitment through abiotic factor analysis on the Central California Coast. **Srednick G.**, Garza C.
  - 2013 Western Society of Naturalists – Oxnard, CA
  - 2013 SACNAS Annual Meeting – San Antonio, TX

## GRANT SUPPORT

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2022	<b>Alfred Nicholas Scholarship</b> – (\$16,261 AUD)
2022	<b>David Ashton Scholarship</b> – (\$2,600 AUD)
2020	<b>Melbourne Research Scholarship</b>
2016	<b>Myers Oceanographic &amp; Marine Biology Trust</b> – (\$865 USD)
2016	<b>PADI Foundation Grant</b> – (\$2300 USD)
2016	<b>International Women's Fishing Association</b> – (\$1000 USD)
2016	<b>Lerner-Gray Memorial Fund</b> – (\$1885 USD)

2015 **Graduate Student Thesis Support** – CSU Northridge, Office of Graduate Studies (\$1000 USD)

2015 – 2016 **Wrigley Graduate Student Fellowship** – University of Southern California  
 RELATED EXPERIENCE

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2017 **Research Technician** – Assisted operations for NASA CORAL project in Guam and Hawaii. – PI: Robert Carpenter

2014 **CSU Catalina Semester Program** – Attended field courses and conducted field research out of USC's Wrigley Marine Science Center on Santa Catalina Island, CA.

2013 – 2014 **Volunteer Diver** – Monterey Bay Aquarium – ARCC Facility, Performed routine tank cleaning, experience around pelagic marine animals

2013 **MSCI 395 – Research Diving**, CSU Monterey Bay, Organizational Member - American Academy of Underwater Sciences

2012 – 2014 **Teaching Assistant** – CSU Monterey Bay SCUBA, Assisted with Open Water, Advanced/Rescue, Master Diver, and AAUS Research Diving courses

## AWARDS AND HONORS

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2012-2014 **Dean's List** – Department of Science, Technology, and Policy, CSU Monterey Bay

2014 **2<sup>nd</sup> place in Poster competition** – Monterey Bay National Marine Sanctuary Currents Symposium

2014 **Student Travel Award** – Council on Ocean Affairs, Science, and Technology (COAST)

## PROFESSIONAL ROLES

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2014 – 2017 **Student Representative** – Diving Control Board, Ocean Sciences Institute

2013 – 2014 **Officer of Public Relations** – CSU Monterey Bay Marine Science Club

2011 – 2014 **Vice President** – CSU Monterey Bay Outdoor Adventure Club

## PROFESSIONAL AFFILIATIONS

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- American Academy of Underwater Sciences
- Western Society of Naturalists
- Divers Alert Network (DAN)
- CSU Northridge Marine Biology Graduate Student Association
- University of Melbourne Biosciences Postgraduate Society (BioPS)

## SKILLS

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- Proficient in R, ArcGIS, Arduino, PRIMER
- Basic woodcraft, electronics, and aquarium maintenance
- Carbonate chemistry measurement methods
- Proficient with general oceanographic instrumentation
- AAUS Scientific Diver (> 600 hrs)
- NAUI Divemaster
- Small Boat Operator (> 500 hrs)
- Operation of 4WD vehicles in rugged terrain; towing vessels up to 30'
- Outdoor Education and group management