

Griffin Srednick

Postdoctoral Scholar
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APPOINTMENTS

Nov. 2024 – present NSF Ocean Sciences Postdoctoral Research Fellow, **Stanford University, Oceans Department**

EDUCATION

2020 – 2024 **The University of Melbourne**
Doctor of Philosophy in Biology
Supervisor: Stephen Swearer

2014 – 2018 **California State University, Northridge**
Master of Science Biology
Supervisor: Mark Steele

2009 – 2014 **California State University, Monterey Bay**
Bachelor of Science Marine Science, Minor: Outdoor Education
Supervisor: Corey Garza

PEER-REVIEWED PUBLICATIONS

- Srednick, G**, Swearer SE. (2024). Understanding diversity–synchrony–stability relationships in multitrophic communities. *Nature Ecology & Evolution*:1–11.
- Srednick G**, Swearer SE. (2024) Effects of protection and temperature variation on temporal stability in a marine reserve network. *Conservation Biology*. DOI: 10.1111/cobi.14220.
- 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.**, Edmunds, PJ. (2023). Corallivory on small Porites colonies increases with coral colony size but is reduced by macroalgal associational refuge. *Coral Reefs*:1–5.
- 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, MA. (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 pCO₂ 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**, Swearer SE. (Accepted). Habitat attributes mediate top-down and bottom-up drivers of community development in temperate and tropical algae. *Ecosphere*
- Edmunds PJ, John C, Leichter JJ, Mortiz C, Scafidi KC, Speare KE, **Srednick G**, Wyatt, ASJ. (Accepted). Long-term community dynamics are heterogeneous between fringing and fore-reef habitats on an Indo-Pacific coral reef. *Ecosphere*

PROFESSIONAL ACTIVITIES

Peer Reviewing

- Ecology Letters
- Marine Ecology Progress Series
- PLOS One
- Science of the Total Environment
- Marine Environmental Research

Research

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| Aug 2019 – Dec 2020 | National Science Foundation – Mo’orea Coral Reef Long Term Ecological Research Program: Research Technician – PI’s: Peter J. Edmunds, Robert Carpenter |
| Aug 2017 – Jun 2019 | National Science Foundation Ocean Acidification: Research Technician – PI’s: Peter J. Edmunds, Robert Carpenter |
| May – July 2017 | Channel Islands National Park Kelp Forest Monitoring Program: Seasonal Biological Technician — PI: David Kushner |
| Jan – May 2017 | Resource Conservation District of the Santa Monica Mountains: Field Biologist and Data Management Assistant – Supervisor: Rosi Dagit |
| Jan 2015 – May 2017 | San Onofre Nuclear Generating Station Mitigation and Monitoring Project: Research Assistant – PI: Mark A. Steele |
| May 2015 – Sep 2016 | Size-selective mortality of sex-changing fishes, National Science Foundation Project: Research Assistant – PI: Mark A. Steele. |
| July 2014 | California State University, Monterey Bay: Research Assistant – PI’s: Tom Oliver & Cheryl Logan |
| June – Aug 2013 | Ichthyology Lab – Moss Landing Marine Labs: Research Assistant – PI’s: Scott Hamilton & Devona Yates |
| Jan 2013 – May 2014 | Marine Landscape Ecology Lab – CSU Monterey Bay: Undergraduate Research Intern – PI: Corey Garza |

Mentoring

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| 2025 – present | Stanford University <ul style="list-style-type: none"> • Yu Chian Lin – Title: Assessing the role mesoscale connectivity in driving coral community recovery in French Polynesia |
| 2023 – 2024 | The University of Melbourne <ul style="list-style-type: none"> • Emily Pinto – Title: Habitat complexity and resource availability shape urchin grazing behaviours |
| May – Aug 2015 | National Science Foundation Research for Undergraduates – USC Wrigley Marine Science Center |

Teaching

- July 2022 The University of Melbourne: **Casual Demonstrator**
- First Year Biology BIOL10011 & 10012
 - Ecology ECOL20003
- 2015 – 2017 California State University, Northridge: **Teaching Associate**
- Biology 101L: General Biology for non-majors
- Aug 2015 – May 2017 California State University, Northridge: **Graduate Assistant**
- Biology 322: Evolutionary Biology
 - Biology 529: Marine Ecology
 - Biology 100
- May 2016 California State University, Northridge: **Guest Lecturer**
- Biology 322: Evolutionary Biology

PROFESSIONAL PRESENTATIONS

Conference Oral Presentations:

- Understanding stability in multitrophic marine ecosystems. **Srednick G.**, Swearer S.
 - 2023 Western Society of Naturalists Annual Meeting – Monterey, CA
 - 2023 Coastal and Estuarine Research Federation Meeting – Portland, OR
 - 2023 University of Melbourne Biosciences Postgraduate Society Annual Symposium – Parkville, VIC
- Structural complexity and spatial heterogeneity mediate herbivory and influence asynchrony in algal metacommunities. **Srednick G.**, Swearer S.
 - 2021 Western Society of Naturalists Annual Meeting – Virtual
- Macroalgal associational refuge depends on coral colony size. **Srednick, G.**
 - 2020 Western Society of Naturalists Annual Meeting – Virtual
- Influence of the structure of algae on the distribution and behavior of fishes. **Srednick G**, Steele MA
 - 2016 Western Society of Naturalists Annual Meeting – 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 20th Annual Student Research and Creative Works Symposium – Northridge, CA
 - 2015 Western Society of Naturalists Annual Meeting – 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:

- There and back again: decomposing ecological complexity to understand resilience
 - 2025 Oceans Seminar Series, Stanford Oceans – Hopkins Marine Station
- Influence of the structure of algae on the distribution and behavior of fishes
 - 2017 University of California, Berkeley Mo'orea Seminar Series – Mo'orea, French Polynesia
 - 2016 USC Wrigley Fellowship, Saturday at the Lab – Catalina Island, CA
 - 2015 USC Wrigley Fellowship, Saturday at the Lab – Catalina Island, CA

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

GRANTS IN SUPPORT OF RESEARCH

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| 2024 | National Science Foundation Postdoctoral Research Fellowship – (\$316,457 USD) |
| 2024 | Albert Shimmins Award – (\$3000 AUD) |
| 2023 | F.H. Drummond Travel Award – (\$1,500 AUD) |
| 2023 | Parks Victoria Applied Park Management Research Scholarship – (\$5,000 AUD) |
| 2022 | Melbourne Welcome Grant – (\$4000 AUD) |
| 2022 | Alfred Nicholas Scholarship – (\$16,261 AUD) |
| 2022 | David Ashton Scholarship – (\$2,600 AUD) |
| 2020 | Melbourne Research Scholarship |
| 2016 | Myers Oceanographic & Marine Biology Trust – (\$865 USD) |
| 2016 | PADI Foundation Grant – (\$2,300 USD) |
| 2016 | International Women's Fishing Association – (\$1,000 USD) |
| 2016 | Lerner-Gray Memorial Fund – (\$1,885 USD) |
| 2015 | Graduate Student Thesis Support – CSU Northridge, Office of Graduate Studies (\$1,000 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 | 2nd 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

2025 – pres. **Stanford Oceans Seminar Series Committee**

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

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

SKILLS

- 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; vessel length $\leq 7\text{m}$)
- Operation of 4WD vehicles in rugged terrain; towing vessels up to 10m