Griffin Srednick

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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

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

2025 – present	**Stanford University** • Yu Chian Lin – Title: Assessing the role mesoscale connectivity in driving coral community recovery in French Polynesia
2023 – 2024	**The University of Melbourne** • 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

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

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

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