Scott Stanley Gabara Ecology PhD (San Diego State University / UC Davis Joint Doctoral Program) Master of Science (Moss Landing Marine Laboratory, SJSU) Email: <u>scottgabara@gmail.com</u> Website: <u>scottgabara.weebly.com</u>

EDUCATION

2015-2020	Ph.D. SDSU/UC Davis Joint Doctoral Program in Ecology Advisor: Matt Edwards, UCD sponsor: Brian Gaylord	SDSU	UCDAVIS UNIVERSITY OF CALIFORNIA
2010-2014	Master of Science in Marine Science Moss Landing Marine Laboratories, San Jose State University Co-advised: Diana L. Steller & Michael H. Graham		
2003-2007	Bachelor of Sciences in Marine Biology University of California Santa Cruz		

WORK EXPERIENCE

2019-Present	Consulting with Naval Information Warfare Center Pacific (NIWC Pacific) and NOAA determining seagrass community food resources for endangered green sea turtles in South San Diego Bay. Quarterly field collections and lab sorting for producers and consumers across fixed and random sites. Conducted fieldwork and prepped community	
2015-2020	samples (~700) for stable isotope analysis. Manuscript in prep. As a PhD student I conducted field work in the Aleutian Islands including a field caging experiment on Adak Island, (2) lab-based experiments testing the effects of light/grazing on, and spatial variation of, macroalgal growth and defense at Kasitsna Bay NOAA lab. I also tested for differences in trophic complexity with decreasing biodiversity by sampling marine communities and conducting stable isotope analyses across a biodiversity gradient (~1200 samples). I also conducted lab-based studies at Bodega Marine Lab testing the effects of predator waterborne cues on red and white	
2018-2020	abalone foraging. I helped run a CA Sea Grant on the effects of mooring chain disturbance on coralline algal rhodolith community biodiversity and productivity at Santa Catalina Island, CA.	
2015-2019	I helped conduct an NSF project using benthic productivity chambers deployed across the Aleutian Island archipelago. I built and maintained benthic chambers, calibrated and helped deploy sensors (DO, PAR, pH), downloaded and managed data, and generated summary statistics and plots for publication (Edwards et al. 2020)	
2014-2015	Restoration assistant for Central Coast Wetlands Group (MLML). Duties included greenhouse manager, propagation of native plants, construction of planting tables, greenhouses and watering systems	
2010-2014	As a masters student I designed a subtidal sampling protocol for my thesis at Catalina Island. Assembled and directed multiple sampling teams composed of students and volunteers. Raised over \$10,500 through grant writing to support field sampling trips (Gabara et al. 2018) and stable isotope analyses (Gabara 2020).	
2010-2014	As the Assistant Diving Safety Officer at Moss Landing Marine Laboratories I co- taught, organized, and directed marine science diving classes held during the summer and fall. I was also tasked with maintaining dive gear and equipment, inspecting SCUBA cylinders, maintaining inflatable boats, a dive locker, and air compressors.	
2010-2007	As a PISCO Subtidal Marine Technician at Long Marine Lab (UCSC) I helped organize and direct co-workers/volunteers, conducted SCUBA sampling trips from Santa Cruz to San Luis Obispo, and constructed/maintained oceanographic moorings and equipment.	
2007	PISCO Subtidal UCSC volunteer at Long Marine Lab.	
2009	Volunteer diver for USGS aboard the R/V Robert Gordon Sproul.	

TEACHING EXPERIENCE

2020	Formed the SDSU ISOclub, a stable isotope working group for ecology students
2019	Guest lecture "Plotting w/ ggplot2", SDSU (BIO 597, Univariate Stat. Methods in Bio.)
2019	Teaching Asst., SDSU (BIO 354, Ecology and the Environment)
2017	Teaching Asst., UC Davis (EVE 101, Intro to Ecology)
2017	Organizer/lecturer, UC Davis (EVE 298, Seminar – Stable Isotopes: tools to examine food webs)
2010-2014	Teaching Asst., Moss Landing Marine Laboratories (MS105, Marine Science Diving)
2011	Teaching Asst., MLML (MS273, Ecology of the Gulf of California)
2009	Teaching Asst., University of California Santa Cruz (BIO75 Scientific Diving Methods)

PRESENTATIONS

2020	Contributed Talk, Western Society of Naturalists, Conditions for the propagation of seabird
2020	subsidies through kelp forest ecosystems (online)
2020	Invited Talk, CSU Monterey Bay Natural Sciences Seminar Series, Causes and Consequences of
2020	Kelp Forest Foundation Species Loss (Zoom)
2020	Contributed Talk, UC Davis/SDSU PhD Exit seminar, Causes and Consequences of
	Kelp Forest Foundation Species Loss (Zoom)
2020	Contributed Talk, Alaska Marine Science Symposium, Kelp Forest Deforestation
	Leads to Community-Wide Dietary Niche Contraction (Anchorage, AK) – Best PhD presentation
2019	Contributed Talk, Western Society of Naturalists, Kelp Forest Deforestation
	Leads to Community-Wide Dietary Niche Contraction (Ensenada, MX) – Honorable Mention
2018	Contributed Talk, Western Society of Naturalists, Among Habitat and Across Aleutian Island
	Variability in The Base of The Food Web from Stable Isotopes (Tacoma, WA)
2018	Poster, Alaska Marine Science Symposium, Mechanisms Leading to The Increase of The Coarse
	Spongy Cushion Codium ritteri Within Urchin Barrens (Anchorage, AK)
2017	Contributed Talk, Western Society of Naturalists, Mechanisms Leading to The Increase of The
	Coarse Spongy Cushion Codium Ritteri Within Urchin Barrens (Pasadena, CA)
2015	Contributed Talk, Western Society of Naturalists, Stable Isotopes Suggest Ontogenetic Dietary
	Niche Breadth Consistency in The California Moray Gymnothorax Mordax (Sacramento, CA)
2012	Contributed Talk. Western Society of Naturalists. Energy flow in a Rhodolith Bed at Catalina
	Island, CA. (Oxnard, CA)
2012	Contributed Talk, IV International Rhodolith Workshop, <i>Energy flow in a Rhodolith Bed at</i>
	Cataling Island, CA (Granada, Spain)
2012	Poster, Monterey Bay National Marine Sanctuary Currents Symposium, <i>Rhodolith</i>
	Associated Invertebrates and Algae, Cataling Island (Seaside, CA)
2006	Contributed Talk Monterey Bay National Marine Sanctuary Draft Management Plan Snoke for
	the inclusion of the Davidson Seamount into the MBNMS (Santa Cruz CA)
	the metasion of the Duvidson Seamount into the MiDiantis (Sunta Cruz, CA)

PUBLICATIONS

<u>2020</u>

Gabara SS (Submitted, Marine Ecology Progress Series) Spatial variation of Aleutian Island Archipelago kelp stable isotope values and elemental concentrations

Gabara SS, Konar BH, Edwards MS (In prep, Proceedings of the Royal Academy of Sciences B) Conditions for the propagation of seabird guano-derived nutrients through kelp forests

Gabara SS, Konar BH, Edwards MS (Accepted, Ecosphere) Kelp forest deforestation leads to community-wide dietary niche contraction

Gabara SS, Weitzman BP, Konar BH, Edwards MS (Accepted, Marine Biology) Macroalgal defense phenotype correlates with herbivore abundance

Gabara SS, Mehta RS (In prep, Target journal: Environmental Biology of Fishes) Stable isotopes from different tissues reveal seasonal dietary niche shifts of California morays *Gymnothorax mordax*

Dolinar D, Steller DL, Gabara SS, Beckley B, Kim J, Edwards MS (Accepted, Ciencias Marinas) Impacts of Boat Mooring Disturbance on Productivity and Respiration in Catalina Rhodolith Beds

Edwards MS, Konar BH, Kim J-H, Gabara SS, Sullaway G, McHugh T, Spector M, Small S (2020) Marine deforestation leads to widespread loss of ecosystem function. PLoS ONE 15(3): e0226173. https://doi.org/10.1371/journal.pone.0226173

Gabara SS (2020) Trophic structure and potential carbon and nitrogen flow of a rhodolith bed at Santa Catalina Island inferred from stable isotopes. *Mar Biol* 167: 30 https://doi.org/10.1007/s00227-019-3635-9

<u>2018</u>

Gabara SS, Hamilton SL, Edwards MS, Steller DL (2018) Rhodolith structural loss decreases abundance, diversity, and stability of benthic communities at Santa Catalina Island, CA. *Marine Ecology Progress Series* 595:71-88 https://doi.org/10.3354/meps12528

<u>2014</u>

Gabara, Scott Stanley, "Community Structure and Energy Flow within Rhodolith Habitats at Santa Catalina Island, CA" (2014). *Master's Theses*. Paper 4495. http://scholarworks.sjsu.edu/etd_theses/4495

JOURNAL REVIEWS

Bulletin of Marine Science, Marine Ecology Progress Series, Restoration Ecology, PeerJ, Southeastern Naturalist

SCHOLARSHIPS, GRANTS AND AWARDS

2020	Alaska Marine Science Symposium (AMSS) best PhD talk, \$250	
2019	Council on Ocean Affairs, Science & Technology (COAST) Student Travel Award to the Alaska Marine Science Symposium conference, \$750	
2018	SDSU University Graduate Fellowshin, \$25000	
2017	Western Society of Malacologists, \$1000	
2013	David & Lucile Packard Grant, \$1000	
2013	American Academy of Underwater Sciences (AAUS) Kevin Gurr Scholarship Award, 1 st Place, \$3000	
2013	MLML Signe Lundstrom Memorial Scholarship, \$750	
2013	Moss Landing Marine Laboratories 2013 Wave Award, \$750	
2012	Council on Ocean Affairs, Science & Technology (COAST) Student Award for Marine Science Research, \$3000	
2012	Dr. Earl H. Myers and Ethel M. Myers Oceanographic and Marine Biology Trust, \$1000	
2012	Council on Ocean Affairs, Science & Technology (COAST) Student Travel Grant to Granada, Spain, \$1000	

PROFESSIONAL MEMBERSHIPS

Western Society of Naturalists (WSN) American Society of Naturalists (ASN) American Academy of Underwater Sciences (AAUS)

REFERENCES

Dr. Matthew Edwards, San Diego State University

619 594 0114 (office) / 619 871 5357 (cell) medwards@sdsu.edu PhD advisor. I worked as a graduate assistant for Dr. Edwards for an NSF project awarded to him and Dr. Brenda Konar. I have also collaborated with Dr. Edwards and my masters advisor Dr. Steller on a CA Sea Grant.

Dr. Diana Steller, Moss Landing Marine Laboratory 831 771 4440 (office) / 831 588 5591 (cell) dsteller@mlml.calstate.edu Masters advisor. I co-ran the MLML diving program with Dr. Steller. I am currently working with her and Dr. Edwards on a CA Sea Grant.

Dr. Brenda Konar, University of Alaska Fairbanks 907 474 5028 (office) bhkonar@alaska.edu Colleague. Dr. Konar has advised me on two of my dissertation chapters. I worked with her lab during the Aleutian Island NSF cruises to get collections of producers and consumers within kelp forest, urchin barren, and offshore habitats.