

JACOB G. EURICH
Small-Scale Fisheries Solutions Scientist

Environmental Defense Fund

Santa Barbara, Ca
93106, USA

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Education

- Ph. D** in Marine Ecology 2014 – 2018
ARC Centre of Excellence for Coral Reef Studies (ARC CoE)
James Cook University (JCU)
Advisor: Prof. Geoffrey Jones
- B. Sc.** in Environmental Studies 2008 – 2012
University of California, Santa Barbara (UCSB)
Advisors: Dr. Robert Warner and Dr. Jennifer Caselle
Minor in Spatial Science (GIS), emphasis in Marine Biology
* *Honors and Distinction within the Major*

Publications

Journal Articles

- Caldwell, IR, TR McClanahan, RM Oddenyo, NAJ Graham, M Beger, L Vigliola, ... **JG Eurich**, et al., JE Cinner (*In review*). Protection efforts have resulted in ~10% of existing fish biomass on global coral reefs. *PNAS*.
- Free, CM, JG Smith, J Brun, TB Francis, **JG Eurich**, J Claudet, JE Dugan, D Gill, SL Hamilton, K Kaschner, CJ Lopazanski, D Mouillot, SL Ziegler, JE Caselle, KJ Nickols (*In review*). If you build it, they will come: coastal amenities facilitate human engagement in marine protected areas. *People and Nature*.
- Eurich, JG¹**, WR Friedman¹, KM Kleisner¹, LZ Zhao¹, CM Free, M Fletcher, JG Mason, K Tokunaga, A Aguion, A Dell'Apa, M Dickey-Collas, R Fujita, CD Golden, AB Hollowed, G Ishimura, KA Karr, S Kasperski, Y Kisara, JD Lau, S Mangubhai, L Osman, GT Pecl, JO Schmidt, EH Allison, PJ Sullivan, JE Cinner, R Griffis, TR McClanahan, RC Stedman, KE Mills (*In review*). Diverse pathways for climate resilience in marine fishery systems. *Fish and Fisheries*. ¹**Denotes first co-authorship**
- Seto, KL, WR Friedman, **JG Eurich**, JA Gephart, J Zamborain-Mason, M Sharp, E Aram, A Tekaieti, A Tekiau, CD Golden (*In review*) Characterizing pathways of food access to seafood resources in small island developing states. *PNAS*.
17. Smith, JG, CM Free, CJ Lopazanski, J Brun, CR Anderson, MH Carr, J Claudet, JE Dugan, **JG Eurich**, TB Francis, SL Hamilton, K Kaschner, D Mouillot, PT Raimondi, RM Starr, SL Ziegler, KJ Nickols, JE Caselle (**2023**). A network of marine protected areas does not confer community structure resilience to a marine heatwave across coastal ecosystems. *Global Change Biology*. 00:1-18. [[doi link](#)]
16. **Eurich, JG**, A Tekiau, KL Seto, E Aram, T Beiateuea, CD Golden, B Rabwere, DJ McCauley (**2023**). Resilience of a giant clam subsistence fishery in Kiribati to climate change. *Pacific Conservation Biology*. PC22050. [[doi link](#)]
15. Carroll, C¹, **JG Eurich¹**, K Sherman, R Glazer, MT Braynen, KA Callwood, A Castañeda, C Dahlgren, KA Karr, KM Kleisner, V Burns-Perez, SE Poon, N Requena, V Sho, SN Tate, S Haukebo (**2023**). A participatory climate vulnerability assessment to enhance collaborative science and management in Caribbean recreational fisheries. *Frontiers in Marine Science*. 10:1177715. [[doi link](#)] ¹**Denotes first co-authorship**
14. Halpern, B, C Boettiger, MC Dietze, JA Gephart, P Gonzalez, NB Grimm, ... **JG Eurich**, et al., C

Youngflesh (2023). Priorities for synthesis research in ecology and environmental science. *Ecosphere* 14(1):e4342. [doi link]

13. Mills, KE, D Armitage, **JG Eurich**, KM Kleisner, G Pecl, K Tokunaga (2023). Co-production of knowledge and strategies to support climate resilient fisheries. *ICES Journal of Marine Science*, fsac110. [doi link]
12. Golden, CD¹, J Ayroles¹, **JG Eurich**¹, JA Gephart¹, KL Seto¹, MK Sharp¹, P Balcom, HM Barravecchia, KK Bell, KD Gorospe, J Kim, WH Koh, J Zamborain-Mason, DJ McCauley, H Murdoch, K Neeti, S Passarelli, A Specht, E Sunderland, A Tekaieti, A Tekiau, R Tekoaia, E Timeon (2022). Study protocol: interactive dynamics between coral reef fisheries and the nutrition transition in Kiribati. *Frontiers in Public Health*. 10:890381. [doi link] ¹**Denotes first co-authorship**
11. Andrew, NL, EH Allison, T Brewer, J Connell, H Eriksson, **JG Eurich**, A Farmery, JA Gephart, CD Golden, M Herrero, K Mapusua, KL Seto, MK Sharp, P Thornton, AM Thow, J Tutoa (2022). Continuity and change in the contemporary Pacific food system. *Global Food Security*. 32:100608. [doi link]
10. Mason, JG¹, **JG Eurich**¹, JD Lau¹, W Battista, CM Free KE Mills, K Tokunaga, LZ Zhao, M Dickey-Collas, M Valle, G Pecl, J Cinner, TR McClanahan, EH Allison, WR Friedman, C Silva, E Yáñez, MÁ Barbieri, KM Kleisner (2022). Attributes of climate resilience in fisheries: from theory to practice. *Fish and Fisheries*. 23:522-544. [doi link] ¹**Denotes first co-authorship**
9. Golden, CD¹, JZ Koehn¹, A Shepon¹, S Passarelli¹, C Free¹, D Viana¹, H Matthey, **JG Eurich**, JA Gephart, E Fluet-Chouinnard, E Nyboer, A Lynch, M Kjellevold, S Bromage, P Charlebois, M Barange, S Vannuccini, L Cao, KM Kleisner, EB Rimm, G Danaei, C DeSisto, H Kelahan, KJ Fiorella, DC Little, EH Allison, J Fanzo, SH Thilsted (2021). Aquatic foods for nourishing nations. *Nature*. 1–6. [doi link] ¹
Denotes first co-authorship
8. Golden, CD, JA Gephart, **JG Eurich**, DJ McCauley, MK Sharp, NL Andrew, KL Seto (2021). Social-ecological traps link food systems to nutritional outcomes. *Global Food Security*. 30:100561. [doi link]
7. Farrell, P, AM Thow, JT Wate, N Nonga, P Vatucawaqa, T Brewer, MK Sharp, A Farmery, H Trevena, E Reeve, H Eriksson, I Gonzalez, G Mulcahy, **JG Eurich**, NL Andrew (2020). COVID-19 and Pacific food system resilience: opportunities to build a robust response. *Food Security*. 12:783–791. [doi link]
6. **Eurich, JG**, JK Matley, R Baker, MI McCormick, GP Jones (2019). Stable isotope analysis reveals trophic diversity and partitioning in territorial damselfishes on a low-latitude coral reef. *Marine Biology*. 166:17. [doi link]
5. **Eurich, JG**, MI McCormick, GP Jones (2018). Domino effect: direct and indirect effects of interspecific competition in a highly partitioned guild of reef fishes. *Ecosphere*. 9:e02389. [doi link]
4. **Eurich, JG**¹, SM Shomaker¹, MI McCormick, GP Jones (2018). Herbivore foraging dynamics after the removal of an abundant territorial damselfish in Kimbe Bay, Papua New Guinea. *Journal of Experimental Marine Biology & Ecology*. 506:155–162. [doi link] ¹**Denotes first co-authorship**
3. Richardson, LE, NAJ Graham, MS Pratchett, **JG Eurich**, AS Hoey (2018). Mass coral bleaching causes biotic homogenization of reef fish assemblages. *Global Change Biology*. 24:3117–3129. [doi link].
2. **Eurich, JG**, MI McCormick, GP Jones (2018). Habitat selection and aggression as determinants of fine-scale partitioning of coral reef zones in a guild of territorial damselfishes. *Marine Ecology Progress Series*. 587:201–215. [doi link].
1. **Eurich, JG**, RL Selden, RR Warner (2014). California spiny lobster preference for urchins from kelp forests: implications for urchin barren persistence. *Marine Ecology Progress Series*. 498:217–225. [doi link].

Manuscripts in Advanced Preparation (draft available, submission within two months)

Eurich, JG, MK Donovan, JA Gephart, KL Seto, CD Golden, A Tekiau, DJ McCauley. Ecosystem-wide impacts of human pressure: anthropogenic influence outpaces an oceanographic gradient across a remote Pacific island chain. *In prep – Conservation Biology*.

Golden, CD¹, **JG Eurich**¹, J Zamborain-Mason¹, NJ Arisco, CM DeSisto, G Edgar, T Lamy, DJ McCauley, C Mellin, KL Seto, R Stuart-Smith, DF Viana. The impact of coral bleaching on subsistence fisheries and

human nutrition. *In prep* – *Nature Climate Change*. ¹**Denotes first co-authorship**

Theses, Data and Technical Reports

- Caselle, JE, KJ Nickols, JG Smith, C Lopazanski, J Brun, C Free, C Anderson, M Carr, J Claudet, J Dugan, **JG Eurich**, T Francis, D Gill, S Hamilton, K Kaschner, D Mouillot, P Raimondi, R Starr, S Ziegler. (2022). A Synthesis of ecological and social outcomes from the California Marine Protected Area (MPA) network. NCEAS Working Group Final Report to the CA Ocean Protection Council and the CA Department of Fish and Wildlife. [doi link]
- Dee, LE, **JG Eurich**, D Bradley, PM Carlson, J Schem, AD Ridlon, JE Caselle (2021), Surgeonfish foraging data at Palmyra Atoll, Dryad, Dataset. [doi link]
- Eurich, JG. (2018)** Processes underlying the fine-scale partitioning and niche diversification in a guild of coral reef damselfishes. Ph. D. Dissertation. *James Cook University*.
- California Ocean Science Trust (2015) Final report of the scientific review committee: review of the reference point thresholds prescribed in the draft Fishery Management Plan for Spiny Lobster (*Panulirus interruptus*). *California Department of Fish and Wildlife*.
- Humboldt Bay Harbor, Recreation and Conservation District (2012) Humboldt Bay mariculture expansion project, planning, and permitting support. *University of California, Santa Barbara*.
- Eurich, JG. (2012)** California spiny lobster (*Panulirus interruptus*) predator-prey interactions and the influence on kelp forest community dynamics. B. Sc. Honors Thesis. *University of California, Santa Barbara*.

Research and Professional Appointments

RESEARCH HISTORY

Environmental Defense Fund, Santa Barbara, CA

2022 – present **Small-Scale Fisheries Solutions Scientist** Building healthy, equitable, and sustainable blue food systems by increasing the resilience of fisheries to climate change.

National Center for Ecological Analysis and Synthesis, *UCSB*, Santa Barbara, CA

2021 – 2022 **Postdoctoral Scholar** Assessing the ecological performance of the California MPA network for the MPA Decadal Management Review. Advisor: Dr. Ben Halpern

Marine Science Institute, *UCSB*, Santa Barbara, CA

2018 – 2021 **Postdoctoral Scholar** Investigating the interactive dynamics of reef fisheries and human health in Kiribati. Leading the natural systems component. Advisor: Dr. Doug McCauley

Harvard T. H. Chan School of Public Health, *Harvard University*, Boston, MA

2018 **Research Assistant** Determined impacts of coral bleaching on human health using fisheries data of high catch-rate species and nutritional data. Advisor: Dr. Chris Golden

Scripps Institution of Oceanography, *University of California, San Diego*, San Diego, CA

2017 – 2018 **Visiting Scholar** Worked with the 100 Island Challenge team at the Center for Marine Biodiversity and Conservation. Advisor: Dr. Stuart Sandin

College of Science and Engineering, *JCU*, Townsville, AUS

2014 – 2017 **Ph. D. Researcher** Designed and implemented original research in Kimbe Bay, PNG. Coursework in research design, theory and methods. Advisor: Prof. Geoff Jones

California Department of Fish and Wildlife, *Marine Invertebrate Project*, Santa Barbara, CA

2013 – 2014 **Scientific Aid** Analyzed status of commercial sea cucumber and lobster fisheries, conducted field monitoring and contributed to a Fishery Management Plan (above).

California Department of Fish and Wildlife, *CA Recreational Fishery Survey*, Santa Barbara, CA

2011 – 2013 **Scientific Aid** Distinguished and collected biological and fisheries data on recreational species and surveyed anglers across all recreational fishing sectors in California.

- Palmyra Atoll Research Consortium, *Pacific Remote Islands Marine National Monument*
 2013 **Field Technician** Performed experimental research, including surveys, external and surgical tagging of sharks and fishes, and acoustic telemetry. Advisor: Dr. Jenn Caselle
- Marine Science Institute, *UCSB*, Santa Barbara, CA
 2013 **Boat Captain and Scientific Diver** Conducted surveys on oil platforms (135ft depth). Captained boats and served as lead operator in the field. Advisor: Dr. Milton Love
- Partnership for Interdisciplinary Studies of Coastal Oceans, *UCSB*, Santa Barbara, CA
 2012 – 2013 **Research Technician** Participated in all aspects of multi-day research cruises for long-term kelp forest monitoring across the Channel Islands National Park.
- Bren School of Environmental Science and Management, *UCSB*, Santa Barbara, CA
 2012 **Research Technician** Studied sheephead and urchin size frequency data and predator-prey dynamics using video analysis. Advisors: Drs. Robert Warner and Rebecca Selden
- Center for Spatial Studies, *UCSB*, Santa Barbara, CA
 2011 **SeaSketch GIS Project Manager** Managed a shellfish mariculture expansion project. The outcome was a technical report (above). Advisors: Dr. Will McClintock
- Marine Science Institute, *UCSB*, Santa Barbara, CA
 2010 – 2011 **Laboratory Assistant II** Identified and sorted marine samples and compared recruitment data with oceanographic data to interpret community structure. Advisor: Dr. Jenn Caselle

PROFESSIONAL EXPERIENCE

- Everyday California Adventures, San Diego, CA
 2017 – 2018 **Naturalist and Tour Guide** Instructed and guided private and group snorkel and whale tours by kayak. Educated school groups about local wildlife, oceanography and geology.
- Mahonia Na Dari Research and Conservation Centre, Kimbe, PNG
 2014 – 2017 **Resident Researcher** Educated school groups on marine issues and promoted ocean conservation. Managed outreach program and assisted with internal operations.
- ERGT Helicopter Underwater Escape Training Academy, Townsville, AUS
 2015 – 2017 **Rescue Diver** Supervised the safety and evacuation of aviation professionals during submerged helicopter crash simulations and post-accident survival techniques.
- Ty Warner Sea Center, Santa Barbara, Ca
 2011 – 2012 **Aquarist Assistant and Marine Educator** Educated and promoted ocean conservation by encouraging stewardship. Monitored equipment, filtration system, and organisms.
- Defenders of Wildlife, Ventura, Ca
 2010 – 2011 **Marketing Intern** Researched and presented sea otter management strategies with local press. Created a PSA, implemented a marketing plan, and created an outreach program.

Teaching and Mentorship

Teaching

- 2015 – 2017 Education staff, K-12 intensives, *Mahonia Na Dari Research and Conservation Centre*
- 2014 – 2016 Teaching staff, MB5200 Marine Conservation Biology, Graduate, *JCU*
- 2014 – 2016 Teaching staff, MB3200 Marine Conservation Biology, Undergraduate, *JCU*
- 2012 Teaching assistant, EEMB106 Biology of Fishes, Undergraduate, *UCSB* (Dr. Warner)
- 2012 Grading assistant, EEMB152 Marine Ecology, Undergraduate, *UCSB* (Dr. Schmitt)
- 2011 – 2012 Marine educator, Youth education program, *Ty Warner Sea Center*

2010 – 2011 Teaching assistant, ES115 Energy and Environment, Undergraduate, *UCSB* (Dr. Manalis)

Mentorship

Graduate students

- 2021 – present Christopher Knight, PhD, *Stanford*
Thesis: Connection between food and nutritional security and seafood borne illness in the central Pacific. Primary supervisor: Dr. Fiorenza Micheli
- 2020 – present Indiana Reid-Shaw, PhD, *University of California, Santa Cruz*.
Thesis: Assessing the status of data-poor fisheries: contrasting methodologies for small scale fishery management. Primary supervisor: Dr. Katherine Seto
- 2019 – 2022 Haley Barravecchia, MSc, *Harvard T.H. Chan School of Public Health*
Thesis: Evaluation of mercury concentrations in Halimeda and water chemistry along two isolated Pacific island chains. Primary supervisor: Dr. Chris Golden
- 2015 – 2017 Ahna Miller, MSc, *Clark University*
Thesis: GIS applications examining the spatial distribution of damselfish populations after the removal of a dominant competitor. Post-advising: GIS lead at Driscolls.
- 2016 Daniel Beard, MSc, *JCU*
Thesis: Fisheries regulation and governance. Post-advising: Program Coordinator, Australian Department of Agriculture and Water Resources.
- 2015 – 2016 Juliette Chausson, MSc, *JCU*
Thesis: Social group structure in the Orange clownfish: The influence of environmental and social factors. Post-advising: Research Fellow, US Environmental Protection Agency.

Undergraduate students

- 2019 – 2020 Keegan Bell, Field Technician, *UCSB*
Thesis: Baselines, degradation, and resilience of seagrass beds in the Gilbert Islands.
- 2016 – 2017 Simone Shomaker, undergraduate senior thesis advisee, *JCU*
Thesis was awarded a High Distinction.
- 2014 Patrick Smallhorn-West, Honours student, undergraduate volunteer, *JCU*
Post-advising: PhD Candidate at JCU.
- 2014 Vanessa Haller, Honors student, undergraduate volunteer, *JCU*
Post-advising: PhD Candidate at ARC CoE.
- 2014 Rhys Cornish, undergraduate volunteer, *JCU*
Post-advising: Laboratory and Technical Support Advisor at JCU.
- 2013 Alana Osaki, undergraduate volunteer, *UCSB*
- 2012 Jessica Schem, undergraduate volunteer, *UCSB*
Post-advising: Field Technician at NOAA Marine Debris Program.

Teaching Professional Development

- 2017 Turning science into news: pitching, teaching and writing masterclass, *The Conversation*
- 2014 The Art of Editing Series, *JCU Graduate Research School*

Grants and Funding – Total \$1,613,814 US

Stanford Global Health Seed Grant, <i>Stanford Center for Innovation</i> PI's: Micheli, F, CJ Knight, JG Eurich , CD Golden, and LB Crowder	\$18,911 US	2022 – 2023
NSF CNH-L “Interactive dynamics of reef fisheries and human health” PI's: Golden, CD, D McCauley, KL Seto, JA Gephart, and JG Eurich	\$1,359,998 US	2018 – 2023
Faculty Research Grant, <i>UCSB Academic Senate</i>	\$6,953 US	2020 – 2023

Explorers Club OceanX Grant, <i>The Explorers Club</i>	\$4,775 US	2020 – 2022
Doctoral Completion Grant, <i>JCU</i>	\$3,000 AUD	2018
Open Access Fee Support Grant, <i>JCU</i>	\$1,250 AUD	2018
Higher Degree Research Enhancement Scheme Grant, <i>JCU</i>	\$1,500 AUD	2017
Winner, <u>ICRS Video Abstract Competition</u> , <i>ARC CoE</i>	\$1,000 AUD	2016
Higher Degree Research Enhancement Scheme Grant, <i>JCU</i>	\$1,500 AUD	2016
Postgraduate Research Fellowship: Research funding, domestic and international travel costs, four years tuition and salary, <i>JCU</i>	\$194,000 AUD	2014 – 2018
Winner, Coastal Cleanup Day Photography Competition, <i>Surfrider</i>	\$500 US	2015
Undergraduate Research and Creative Activities Grant, <i>UCSB</i>	\$1,500 US	2011 – 2012
RCD Environmental Studies Conservation Scholarship, <i>UCSB</i>	\$1,000 US	2012
Honors Scholarship, renewable quarterly with 3.5+ GPA, <i>UCSB</i>	\$9,000 US	2010 – 2012
Martin Kanlund Scholarship, leadership and merit based	\$20,000 US	2008 – 2012
EAP Abroad Scholarship, <i>UCSB</i>	\$1,000 US	2011
Stephan Malloy Memorial Scholarship, <i>Sigma Phi Epsilon</i>	\$1,500 US	2011
Dr. Pearl Chase Scholarship, <i>UCSB</i>	\$1,500 US	2009
Balanced Man Scholar, <i>Sigma Phi Epsilon</i>	\$750 US	2008
Burger King Scholarship, community service-based award	\$1,000 US	2008
Environmental Science New Freshman Scholarship, <i>UCSB</i>	\$1,200 US	2008

Conferences, Workshops, and Symposia

CONFERENCE PRESENTATIONS

2023	Transitioning from vulnerable to resilient and viable fisheries social-ecological systems. <i>PICES Effects of Climate Change on the World's Oceans</i> . Bergen, NOR.	Session organizer
2022	Connecting people and our oceans: showcasing a planetary health framework in ocean sciences. <i>Ocean Sciences Meeting</i> . Honolulu, HI.	Session organizer
2022	Resilient fisheries in changing oceans. <i>Ocean Sciences Meeting</i> . Honolulu, HI.	Session organizer
2021	Interactive dynamics of coral reef fisheries and human health. <i>14th International Coral Reef Symposium</i> . Virtual.	Presenter
2020	COVID-19 and Pacific food system resilience: opportunities to build a robust response. <i>Australian Public Health Conference</i> . Virtual.	Participant
2017	The damselfish domino effect: a competitive release in a partitioned guild reveals subordinate's versatility. <i>10th Indo-Pacific Fish Conference</i> . Tahiti, PYF.	Presenter
2016	A competitive release reveals subordinates versatility. <i>13th International Coral Reef Symposium</i> . Honolulu, HI.	Presenter
2016	Using spatial statistics to examine damselfish population distributions after a competitive release. <i>ESRI User Conference</i> . San Diego, CA. [student presented]	Organizer
2016	Using spatial statistics to examine damselfish population distributions after a competitive release. <i>CA GIS Conference</i> . Anaheim, CA. [student presented]	Organizer
2015	Processes underlying niche partitioning and ecological versatility in a guild of coral	Presenter,

	reef damselfishes. <i>Future of Marine Ecosystems ARC CoE</i> . Hobart, AUS.	Award winner
2014	California spiny lobster's preference for healthy urchins: implications for urchin barren phase shifts. <i>Western Society of Naturalists</i> . Oxnard, CA.	Presenter
2012	Humboldt Bay shellfish mariculture expansion project. <i>UCSB Think Spatial GIS Colloquium</i> . Santa Barbara, CA.	Presenter
2012	California spiny lobster's preference for healthy urchins: implications for urchin barren phase shifts. <i>UCSB Undergrad Research Colloquium</i> . Santa Barbara, CA.	Presenter, Award winner

WORKING GROUPS

2022 – present	Fisheries Strategies for Changing Oceans and Resilient Ecosystems by 2030. <i>UN Ocean Decade for Sustainable Development</i> . [team link]	Member
2022 – present	Sustainable Blue Food Futures for People & Planet. <i>UN Ocean Decade for Sustainable Development</i> . [team link]	Member
2021 – present	California MPA data analysis and synthesis project. <i>National Center for Ecological Analysis & Synthesis</i> . [team link]	Member
2018 – present	Pacific Planetary Health Initiative. <i>National Science Foundation and Secretariat of the Pacific Community</i> . [team link]	Principal Investigator
2022 – 2023	NGO Tuna Forum. Independently coordinated and funded NGOs and organizations dedicated to improve global tuna sustainability. [team link]	Member
2021	Future of Synthesis in Ecology and Environmental Science. <i>National Center for Ecological Analysis & Synthesis</i> . [team link]	Member
2020 – 2022	Climate Resilient Fisheries. <i>Science for Nature and People Partnership (SNAPP)</i> . [team link]	Member
2020 – 2021	<i>The Blue Food Assessment: How blue food can support the shift towards a sustainable, healthy food system</i> . [team link]	Member

WORKSHOPS & OUTREACH

2023	<i>5th International Marine Protected Areas Congress (IMPAC5)</i> . Vancouver, CAN.	Participant
2020	<i>World Economic Forum</i> . Virtual Ocean Dialogues. Virtual.	Participant
2019	<i>National Coastal Fisheries Summit Program</i> . Kiribati Ministry of Fisheries and Marine Resources Development. Tarawa, KIR.	Participant
2018	<i>Oceania Planetary Health Forum</i> . IUCN. Denarau, FJI.	Participant
2017	<i>Coral Reef Futures</i> . ARC CoE. Canberra, AUS.	Participant
2016	<i>Biology in the Tropics Student Workshop and Conference</i> . JCU. Townsville, AUS.	Presenter
2014	<i>The Future of Coral Reefs</i> . ARC CoE. Canberra, AUS.	Participant
2013	<i>Coral Reefs in the 21st Century</i> . ARC CoE. Townsville, AUS.	Participant
2012	<i>Western Society of Naturalists Annual Meeting</i> . Seaside, CA.	Participant
2011	Premiere of a local public service announcement. <i>Santa Barbara Channel Sea Otter Conservation Exhibition</i> . Santa Barbara, CA.	Organizer

INVITED TALKS & LECTURES

2022	Fisheries and oceans small-scale fisheries panel. <i>Environmental Defense Fund</i> . Virtual.	Invited Presenter
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2020	An expedition with South Pacific spearfishers: responsible harvesting in Kiribati. <i>Santa Barbara Freedivers Club</i> . Santa Barbara, CA.	Invited Presenter
2019	Leaping together toward sustainable fisheries for a vibrant economy of Kiribati. <i>MFMRD Coastal Fisheries Summit</i> . Tarawa, KIR.	Invited Presenter
2018	Coral club: Breaking paradigms: a damselfish and surgeonfish story. <i>Scripps Institute of Oceanography</i> . San Diego, CA.	Invited Presenter
2017 2016	Benthic sampling on coral reefs. <i>Mahonia Na Dari Research and Conservation Centre</i> . Kimbe, PNG.	Lecturer, Organizer
2016	Territorial damselfish and surgeonfish in Kimbe Bay. <i>Walindi Resort Nature Centre</i> . Kimbe, PNG.	Invited Presenter
2016	A day in the life of a marine biologist. <i>Bear Valley Middle School, Escondido Union School District</i> . San Diego, CA.	Invited Presenter

Service, Skills, Professional Development, and Outreach

Scientific Service

Peer review: Science Advances, Journal of Fish Biology, Coral Reefs, Marine Ecology Progress Series, Journal of Experimental Marine Biology and Ecology, Diversity (MBPI), Marine Biology, and Environmental Conservation [Web of Science link]

Collaborator, *FishBase Global Information System on Fishes* (2019 – present)

Contributor, *Allen Coral Atlas* [link], Kiribati data presentation and mapping consultation (2021)

Board member, Board of Directors, *Mahonia Na Dari Research and Conservation Centre* (2014 – 2015)

Committee Service

Scientific Advising Committee Member, *California Department of Fish and Wildlife* (2013)

Skills

Computer: Apple iWork Suite, Microsoft Office Suite, Adobe Suite, Final Cut Pro

Data Analysis and Statistics: R, ImageJ, ESRI ArcGIS

Diving, Boating and Related Certifications: PADI Open Water Diver (2009), NAUI Advanced Diver (2011), NAUI Rescue Diver (2011), AAUS/OSHA Scientific Diver to 130ft. (2011), CPR First Aid O2 and AED (2011, active) PADI Enriched Air/NITROX (2012), UCSB Offshore Boat Captain (2012), CA Recreational Boat License (2012), Small Vessel Operator License (2012), Goleta Pier Hoist Operator (2012), NAUI Master Diver (2013), NAUI Divemaster (2013–present, active), NAUI Reef Check CA EcoDiver (2013, active), CDFW Scientific Diver (2013), NAUI Dry Suit Diver (2013), JCU Scientific Diver (2014), Qld CPR/Emergency First Responder (2014, active), Qld Marine Operator License (2016), ERGT HUET Safety Diver (2016), Advanced Resuscitation (2016, active), ERGT HUET Hoist and Crane Operator (2017)

Relevant Field Experience: 1,273 logged scientific dives with 939 working SCUBA hours, and extensive experience trailering and operating 8-15 ft. zodiacs, 16-23 ft. whalers, and 22-25 ft. anderson hulls (offshore).

Professional Development

RD7003 Professional Development, 80 hrs. of developmental workshops, *JCU* (2014 – 2018)

Murray Logan R and statistics workshop, selected participant, *ARC CoE* (2017)

CTBCC R course, *ARC CoE* (2016)

Intro to R, ESM206 workshop, *UCSB* (2012)

Carlson Leadership Academy Alumni, *Sigma Phi Epsilon* (2011)

Frank J. Ruck Leadership Institute Alumni, selected participant, *Sigma Phi Epsilon* (2011)
Youth Citizenship Seminar Leadership Academy Alumni, selected participant, *Pepperdine* (2008)

Memberships

The Explorer Club (2020 – *present*)
International Society for Reef Studies (2016 – *present*)
American Academy of Underwater Sciences (2011 – *present*)
Australian Coral Reef Society (2014 – 2017)

Volunteering and Community Engagement

2020 – <i>present</i>	Member, <i>Santa Barbara Freedivers Club</i>	Participant
2013 – <i>present</i>	Scientific Diver, <i>Reef Check California</i> and <i>Reef Check Australia</i>	Volunteer
2014 – 2017	Marine and Environmental Education Program, <i>Mahonia Na Dari Research and Conservation Centre</i>	Volunteer
2014 – 2017	World's Oceans Day Education Team, <i>Reef HQ Great Barrier Reef Aquarium</i>	Volunteer
2016	Ambassador, <i>Aboriginal and Torres Strait Islander in Marine Science</i>	Volunteer
2013 – 2014	Assistant Instructor, Ecodiver Training Course, <i>Reef Check California</i>	Volunteer
2013	Assistant Instructor, AAUS/OSHA Scientific Diving Course, <i>UCSB</i>	Volunteer
2009 – 2011	Greeks Gone Green Sustainability Coalition, <i>UCSB Associated Students and Environmental Organizations</i>	Co-Founder
2010 – 2011	California Gamma Chapter, <i>Sigma Phi Epsilon</i>	President
2010	Restoration Intern, <i>UCSB Coal Oil Point Reserve Nature Center</i>	Volunteer

Selected Popular Media

Press release, [Multiple ecosystems in hot water after marine heatwave surges across the Pacific](#) by *UCSB The Current* (2023)
Blog article, [Ten-year review of California's MPA network](#) by *National Center for Ecological Analysis & Synthesis* (2023)
Blog article, [Local knowledge is key to understanding climate impacts on fisheries](#) by G Carroll, JG Eurich, K Sherman (2023)
Blog article, [How can fisheries weather climate change? New tool offers guidance](#) by *TNC Cool Green Science* (2023)
Press release, [All hands on deck](#) by *UCSB The Current* (2023)
Blog article, [Supporting climate-resilient fisheries during the UN Decade of Ocean Science](#) by JG Eurich, K Kleisner, K Mills (2022)
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Selected Research and Social Accounts

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