Joleah Lamb

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Academic Positions

2019 – **University of California, Irvine** – Assistant Professor
Department of Ecology and Evolutionary Biology

2018 – 2019 **The University of Queensland** – Civil Engineering Development Fellow
Funded Proposal: *Engineering bio-inspired coastal infrastructure systems to remove pathogens in the ocean*

2016 – 2018 **Cornell University & Environmental Defense Fund** – Impact for Innovation Fellow
Funded Proposal: *Sustaining ocean health and human livelihoods in coastal Myanmar*

2014 – 2016 **Cornell University & The Nature Conservancy** – NatureNet Science Fellow
Funded Proposal: *Using natural ecosystem filtration services to mitigate marine pathogens and disease*

2010 – 2014 **Australian Institute of Marine Science, James Cook University** – Australian Government Research Fellow
Funded Proposal: *Influence of reef-based industries on coral health and disease*

Education

2014 Ph.D. **Australian Institute of Marine Science, James Cook University** – Marine Biology
Thesis: *Influence of marine-based industries on coral health and disease*
Chairs: Professor Bette Willis, Professor Garry Russ, Dr. Britta Schaffelke
Awards: Australian Institute of Marine Science Scholar (2010 – 2014)
Dean's Award – Top 10 University Thesis of (2014)
College of Science & Engineering Outstanding Early Career Alumni Award (2018)

2009 M.Sc. **James Cook University** – Tropical Marine Ecology & Fisheries Biology
Awards: University Medal – Vice Chancellor commendation for highest degree awarded (2009)

2005 B.S. **University of Oregon** – Biology
Awards: Institute of Neuroscience & Molecular Biology Dean's Scholar (2001 – 2005)

Publications

Peer-reviewed publications, Journal Articles = 16 | Book Chapters = 3 | Policy Reports = 3
Average journal impact factor (16 indexed publications) = 9.510
Total citations = 780 | h-index = 11
Indicates student research advisor = ^
Google Scholar

22. Olander L, Mason S, Tallis H, **Lamb JB**, Masuda Y and Kramer R. (In Revision). Climate change, ecosystem services and health. Global Climate Change and Human Health: From Science to Practice. Eds Luber G & J Lemery. **Wiley & Sons Publishing**. [Available Upon Request]

21. Harvell CD and **Lamb JB**. (In Press). Disease outbreaks threaten marine biodiversity. Marine Disease Ecology, Eds Lafferty K, Behringer D, and Silliman B. **Oxford University Press**. [Available Upon Request]

20. Raymundo L, Burge C and **Lamb JB**. (In Press). Disease ecology in marine conservation and management. Marine Disease Ecology, Eds Lafferty K, Behringer D, and Silliman B. **Oxford University Press**. [Available Upon Request]

19. Darling ES, McClanahan TR, Maina JM, Gurney GA, Graham NAJ, Januchowski-Hartley F, Cinner JE, Mora C, Hicks CC, Maire E, Puotinen M, Skirving WJ, Adjeroud M, Ahmadia G, Arthur R, Bauman A, Beger M, Berumen M, Bigot L, Bouwmeester J, Brenier A, Bridge T, Brown E, Campbell S, Cannon S, Cauvin B, Chen C, Claudet J, Denis V, Donner S, Estradivari E, Fadli N, Feary D, Fenner D, Fox H, Franklin E, Friedlander A, Gilmour J, Goiran C, Guest J, Hobbs J, Hoey A, Houk P, Johnson S, Jupiter S, Kayal M, Kuo C, **Lamb JB**, Lee M, Low J, Muthiga N, Muttaqin E, Nand Y, Nash K, Nedlic O, Pandolfi J, Pardede S, Patankar V, Penin L, Ribas-Deulofeu L, Richards Z, Roberts T, Rodgers K, Safuan C, Sala E, Shedrawi G, Sin T, Smallhorn-West P, Smith J, Sommer B, Steinberg P, Sutthacheep M, Tan C,

Vargas-Angel B, Williams G, Wilson S, Yeemin T, Bruno JF, Fortin MJ, Krkosek M and D Mouillot. (2019). Social-environmental drivers inform strategic management of coral reefs in the Anthropocene. ***Nature Ecology & Evolution,*** doi: 10.1038/ s41559-019-0953-8. **PDF**

18. Pollock FJ*, **Lamb JB***, van de Water JAJM, Smith HA, Schaffelke B, Willis BL, and D Bourne. (2019). Reduced diversity and stability of coral-associated bacterial communities and suppressed immune function precedes disease onset in corals. ***Royal Society Open Science,*** 6 (6), 1900355. [Shared First Authors]* **PDF**

17. Sweet M, Stelfox M, and **Lamb JB**. (2019). Plastics on shallow water coral reefs: Synthesis of the science for policy-makers (2019). UNEP United Nations Environment Program (Nairobi, Kenya). Eds Grimsditch G, Tamelander J, Savelli-Soderberg H, and Hamilton J. [6 Language Translations] **PDF**

16. Maung A, Benbow S, Deardon P, Freeman C, Jones B, Jones S, Karr K, **Lamb JB**, McKeon S, Obura D, Russell B, Nyi S, Thiha S, Aung S, Tun S, Lunn Z. Eds Howard R. (2018). Marine biodiversity of Myeik Archipelago, Myanmar. Fauna & Flora International (Oxford, UK). **PDF**

15. **Lamb JB**, Willis BL, Fiorenza EA^, Couch CS, Howard R, Rader DN, True JD, Kelly LA^, Ahmad A, Jompa J, and CD Harvell (2018). Plastic waste associated with disease on coral reefs. ***Science*** 359, 460-462***.*** **PDF**

Significant Media Reach: Featured in 827 print and online articles and has received an estimated global reach of 1.07 billion viewers (Source: *Australian Science Media Centre*). This paper ranked in the top 1% of all research publications out of 8.9 million and was in the top 200 most discussed papers of 2018 (Source: *Altmetric*).

14. **Lamb JB**, van de Water JAJM, Bourne DG, Altier C, Fiorenza EA^, Abu N^, Hein MY^, Jompa J, and CD Harvell (2017). Seagrass ecosystems reduce exposure to bacterial pathogens of humans, fishes and invertebrates. ***Science*** 355: 731-733. [Journal Cover] **PDF**

Significant Media Reach: Estimated global reach of 335 million unique viewers (Source: *Meltwater Media*).

13. Page CA, Field SN, Pollock FJ, **Lamb JB**, Shedrawi G, and SK Wilson (2017). Assessing coral health and disease from digital photographs and *in situ* surveys. ***Environmental Monitoring and Assessment*** 189 (18). **PDF**

12. Wenger A, Ahmadia G, Alvarez-Romero J, Barnes M, Blythe J, Brodie J, Fox H, Gill D, Auil Gomez N, Gurney G, Holmes K, Jupiter S, **Lamb JB**, Mangubhai S, Matthews E, Matthews K, Pressey W, Teneva L, Tewfik A, Wells S, and Darling E. (2017). Coral reef conservation solution-scape. Wildlife Conservation Society (New York, USA). MarXiv, 10.31230/osf.io/yd4zg. **PDF**

11. **Lamb JB**, Wenger AS, Devlin M, Cecarelli D, Williamson DH, and BL Willis (2016). Reserves as tools for mitigating marine disease. ***Philosophical Transactions of the Royal Society: B***. 371 (1689), 20150210. [Invited Research] **PDF**

10. van de Water JAJM, **Lamb JB**, van Oppen MJH, Heron SF, and BL Willis (2016). Measures of innate immunity for three major reef-building coral families are linked with local climatic conditions. ***Ecosphere*** 7 (11), e01505. **PDF**

9. Kelly LA^, Heintz T^, **Lamb JB**, Ainsworth T, BL Willis (2016). Ecological and histopathological characterization of a novel plaque-like growth anomaly affecting a reef-building coral. ***Frontiers in Marine Science*** 3 (151). **PDF**

8. **Lamb JB**, Williamson DH, Russ GR, and BL Willis (2015). Protected areas mitigate diseases of reef-building corals by reducing damage from fishing. ***Ecology*** 96 (9), 2555–2567. **PDF**

7. Maynard JA, van Hooidonk R, Eakin CM, Puotinen M, Garren M, Williams GJ, Heron SF, **Lamb JB**, Weil E, Willis BL, and CD Harvell (2015). Climate projections of conditions that increase coral disease susceptibility and pathogen virulence. ***Nature Climate Change*** 5 (7), 688–694. **PDF**

6. van de Water JAJM*, **Lamb JB***, van Oppen, MJH, Willis BL, and Bourne DG (2015). Comparative immune responses of corals to injury, disease and stressors associated with offshore reef-based tourist platforms. ***Conservation Physiology*** 3 (1), cov032. [Shared First Authors]* **PDF**

5. Hein MY^, **Lamb JB**, Scott C, and BL Willis (2015). Assessing baseline levels of coral health in a newly established marine protected area in a global scuba diving hotspot. ***Marine Environmental Research*** 103, 56–65. **PDF**

4. **Lamb JB**, True JD, Piromvaragorn S, and BL Willis (2014). Scuba diving damage and intensity of tourist activities increases coral disease prevalence. ***Biological Conservation*** 178, 88–96. PDF

3. Pollock FJ, **Lamb JB**, Field SN, Shedrawi G, Bourne DG, and BL Willis (2014). Dredging increases coral disease prevalence on nearby reefs. ***PLoS One***, doi:10.1371/journal.pone.0102498. PDF

2. Maynard JA, Anthony KRN, Burgman MA, Harvell CD, Beeden R, Heron S, **Lamb JB**, and BL Willis (2011). Predicting outbreaks of a climate-driven coral disease on the Great Barrier Reef. ***Coral Reefs*** 30 (2), 485–495. PDF

1. **Lamb JB** and BL Willis (2011). Using coral disease prevalence to assess the effect of concentrating tourism activities on offshore reefs in a tropical marine park. ***Conservation Biology*** 25 (5), 1044–1052. PDF

Funding

Total awarded (does not include pending funding) = $1,827,634

Awarded Funding

$568,634 Australian Research Council Discovery Award, *Next generation offshore blue water aquaculture*. The University of Queensland, The University of California Irvine, Norwegian University of Science and Technology, Ghent University. DP190102983 (7/2019 – 7/2022)

$135,000 Advance Queensland Small Business Innovation Grant 2018-19, School of Civil Engineering, The University of Queensland and BMT International, *Boosting coral abundance on the Great Barrier Reef*, (3/2018 – 8/2019)

$342,000 Development Fellowship, School of Civil Engineering at The University of Queensland, *Engineering bio-inspired coastal infrastructure systems to remove pathogens in the ocean*, (2/2018 – 2/2019)

$50,000 School of Veterinary Medicine and Drayer Wildlife Health Center at the University of California Davis, *Natural filtration of pathogens and antibiotic resistant contaminants by marine eelgrass ecosystems*. Agreement number 201702053-05 (4/2018 – 4/2019)

$100,000 Impact for Innovation Fellowship, Atkinson Center for a Sustainable Future at Cornell University and the Environmental Defense Fund, *The role of coastal ecosystem health on food security, nutrition and livelihoods in Myanmar*. (4/2016 – 4/2018)

$265,000 NatureNet Science Fellowship, Department of Ecology and Evolutionary Biology at Cornell University and The Nature Conservancy, *Using natural ecosystem filtration services to mitigate marine pathogens and disease* (3/2014 – 3/2016)

$10,000 One Health Award, College of Veterinary Medicine, Population Medicine and Diagnostic Sciences, Cornell University (5/2015 – 5/2016)

$105,000 The World Bank and Global Environment Fund, *Capturing Coral Reef and Related Ecosystem Services*. Total project awarded to multiple investigators, Project ID P123933 (1/2014 – 12/2018). Total project awarded to multiple investigators $4,100,000 million.

$25,000 Australian Government National Environment Research Program (NERP) Tropical Ecosystems Hub Grant Project 8.2. B*enthic cover and fish density on fringing reefs of inshore island groups of the Great Barrier Reef*. Total project amount of $520,000 awarded to James Cook University, collaborator (7/2014)

$4,000 Publication Award, Graduate Research School, James Cook University (2013 and 2014)

$15,000 International Research Award, Australian Institute of Marine Science (2/2011)

$5,000 Industry Research Fellowship, Australian Network in Marine Science and Western Australia Department of Parks and Wildlife Service, *Influence of soft-sediment dredging for liquefied petroleum gas exploration on levels of coral disease* (9/2011)

$150,000 International Postgraduate Research Scholarship (IPRS) 2011-14, Australian Government & James Cook University (2/2011 – 2/2014)

$43,000 Dean's Scholarship, Institute of Molecular Biology, University of Oregon (9/2001 – 6/2005)

Pending Funding

---- NSF Science and Technology Center (STC) Integrative Partner Program. *Center for Microbiomes and Global Change*. PI Allison (Director, UCI), Santoro (UCSB), Theroux (SCCWRP), Eoin Brodie (LBNL). UCI Participants: Treseder, Randerson, Guindani, Olson, Mackey, Lupton, Long, Jiang, J. Martiny, Smyth, Egoh, Primeau, Moore, A. Martiny, Salazar Campo, Lamb. $25,000,000 (5 years), pre-submission 6/2019

$191,651 David H. Smith Fellowship, Society for Conservation Biology. *Developing a comprehensive platform for measuring the efficacy of coral restoration efforts.* UCI sponsored postdoctoral candidate: Dr. Margaux Hein (2/2020 – 2/2022), submission 9/2019

$150,000 Fulbright-Nehru Fellowship, US-India Education Foundation (USIEF). *Discovery of unique bacterial strains with potential to degrade polyethene from plastic hotspots along the California Coastline*. Sponsored postdoctoral candidate: Dr. Mohd. Shahnawaz (9/2020 – 9/2022), submission 7/2019

Science Communication & Popular Media *Only media sources with personal interviews are listed*

Print Media

2014 National Geographic – *Digging up the seafloor makes coral reefs sick* **LINK**
2015 The Guardian – *Great Barrier Reef four times safer in no-take fishing reserves, study shows* **LINK**
2016 NASA – *The reef, the researcher and the storm* **LINK**
2017 The New York Times – *Disappearing seagrass protects against pathogens, event climate change* **LINK**
2017 BBC – *Seagrass vital to coastal health* **LINK**
2017 New Scientist – *Seagrass meadows help remove dangerous bacteria from ocean water* **LINK**
2017 Smithsonian – *Seagrass reduce bacteria in polluted waters* **LINK**
2018 New Scientist – *Thought plastic was bad enough, here's another reason to worry* **LINK**
2018 The New York Times – *Billions of plastic pieces litter coral in Asia and Australia* **LINK**
2018 The Atlantic – *11 billion pieces of plastic are riddling corals with disease* **LINK**
2018 Time – *Billions of plastic pieces are infecting coral reefs with diseases, study shows* **LINK**
2018 NPR – *Plastic pollution is killing coral reefs, 4-year study finds* **LINK**
2018 Newsweek – *Bacteria that hitch rides on toothbrushes, diapers and other plastic pollution are killing reefs* **LINK**
2018 The Guardian – *Billions of pieces of plastic on coral reefs send disease soaring, research reveals* **LINK**
2018 Scientific American – *Where plastic goes, coral disease follows* **LINK**
2018 The Washington Post – *11 billion pieces of plastic are spreading disease across the world's coral reefs* **LINK**
2018 The Economist – *The unknowns of plastic pollution* **LINK**
2018 New York Post – *Humans are suffocating the world's coral reefs with plastics* **LINK**
2018 Nature – *Plastic trash is sickening the world's coral reefs* **LINK**
2018 BBC – *A third of coral reefs entangled in plastic* **LINK**
2019 UCI News – *UCI ecologist co-authors UN Environment report on impact of plastics on reefs* **LINK**
2019 Orange County Register – *UCI professor shows how plastics have become a killing machine* **LINK**
2019 UCI News – *Underwater Sleuth–UCI researcher investigates threats to coral and other ocean life* **LINK**
2019 UCI Zot Magazine – *The perils of plastic* **LINK**
2019 Science Daily – *Study examines a million corals one by one in urgent call to save reefs* **LINK**
2019 CNN – *Scientists studied 2,500 coral reefs to figure out how to save them* **LINK**
2019 Forbes – *3 Strategies for saving coral reefs in the Indian and Pacific Oceans* **LINK**
2019 PADI Magazine – *Women in Diving: Joleah Lamb is searching for solutions to plastic pollution* **LINK**
2019 World Economic Forum – *After 13 years of research, scientists know how to save the world's coral reefs* **LINK**

Documentary Films, TV, Radio, and Podcasts

2016 Deutsche Welle documentary film – *Protecting biodiversity and health in Myanmar* **VIEW**
2017 AAAS podcast – *Keeping coastal waters healthy with seagrass* **LISTEN**
2017 BBC live radio interview – *Seagrasses vital to coastal health* **LISTEN**
2017 Deutsche Welle documentary film – *Myanmar's marine paradise under threat from dynamite fishing* **VIEW**
2018 AAAS podcast – *Coral Reef Plastic* **LISTEN**
2018 ABC News 24 live television interview – *Ocean Plastic* **VIEW**
2018 BBC award-winning documentary film – *Drowning in Plastic* **VIEW**
2018 Time – *Billions of plastic Pieces are infecting coral reefs* **VIEW**
2019 NBC Los Angeles television interview – *UCI Raises Awareness of Harmful Plastic on Coral reefs* **VIEW**
2019 UCI Office of Strategic Communications & Public Affairs video and voiceover, *Researching Ocean Health* **VIEW**

Expert Commentary

2019 National Geographic, *These corals choose to eat plastic over food* **LINK**

Invited Popular Articles

2. **Lamb JB** (2018). Eleven billion pieces of plastic bring disease threat to coral reefs (published in English and Indonesian and later translated to Burmese and Thai). The Conversation. **LINK**

1. **Lamb JB**, Williamson DH, Russ GR, and BL Willis (2015). Protected areas moderate diseases of reef-building corals. The Bulletin of the Ecological Society of America 96 (4), 647-650. **LINK**

Awards, Honors & Fellowships

2018 Outstanding Early Career Alumni Award – Science & Engineering, James Cook University **LINK**
2018 Faculty of 1000 Nomination (UCSB) for Lamb et al. 2018 (*Science*) **LINK**
2018 Faculty of 1000 Nomination (UCSD) for Lamb et al. 2018 (*Science*) **LINK**
2018 Civil Engineering Development Fellowship – The University of Queensland
2017 AAAS Annual Meeting Publication of the Year for Lamb et al. 2017 (*Science*)
2016 Innovation for Impact Fellowship – Environmental Defense Fund
2015 Virginia Chadwick Award – Australian Research Council for Lamb et al. 2015 (*Ecology*)
2014 NatureNet Science Fellowship – The Nature Conservancy
2014 Faculty of 1000 Nomination (UCSB) for Lamb et al. 2014 (*Biological Conservation*)
2014 Dean's Award for Top 10 university thesis of 2014 – James Cook University
2011 International Postgraduate Research Scholarship – Australian Government & James Cook University
2011 International Research Award – Australian Institute of Marine Science
2009 University Medal – Vice Chancellor commendation for highest degree awarded in 2009 – James Cook University
2005 Dean's Scholarship – University of Oregon

Research Training

Publications arising from student research training is indicated under Publications
Total direct student funding awarded = $36,650

Postdoctoral Fellows

2019 – Dr. Raechel Littman – Ecology and Evolutionary Biology, University of California, Irvine

Graduate

2019 – Phoebe Dawkins – Ecology and Evolutionary Biology, University of California, Irvine
UCI Provost PhD Fellowship **$20,000**,
UCI Diversity Recruitment Fellowship (DRF) **$5,000**
UCI Graduate Dean's Recruitment Fellowship (GDRF) **$5,000**

2019 – Samuel Weber – Ecology and Evolutionary Biology, University of California, Irvine (PhD Student)
UCI Graduate Dean's Recruitment Fellowship (GDRF) **$5,000**

Undergraduate

2019 – Lily Nguyen – Ecology and Evolutionary Biology (BioSci 199 Undergraduate Student)
UCI Undergraduate Research Opportunity Program (UROP) **$650**
UCI Summer Undergraduate Research Program (SURP) **$1,000**

Graduate Committee Member

2018 –	Heidi Waite	Ecology and Evolutionary Biology, University of California, Irvine
2018 –	Lauren Lees	Ecology and Evolutionary Biology, University of California, Irvine
2018 –	David Banuelas	Ecology and Evolutionary Biology, University of California, Irvine
2018 –	Karina Brocco French	Ecology and Evolutionary Biology, University of California, Irvine
2018*	Nur Abu	Fisheries and Aquaculture, Hasanuddin University
2017*	Alex Vompe	Ecology and Evolutionary Biology, Cornell University
2016*	Evan Fiorenza	Ecology and Evolutionary Biology, Cornell University
2014*	Georgina Torras Jorda	Marine Biology and Aquaculture, James Cook University
2013*	Margaux Hein	Marine Biology and Aquaculture, James Cook University
2011*	Lisa Kelly	Marine Biology and Aquaculture, James Cook University
2010*	Tom Heintz	Marine Biology and Aquaculture, James Cook University

* *completion year*

Teaching

Course Instruction

Instructor	BioSci 199	Marine Microbiology	University of California, Irvine	2019
Instructor	EcoEvo 200	Disease Ecology	University of California, Irvine	2019
Instructor	BioEE 3730	Invertebrate Biology	Cornell University	2017 – 2018
Instructor	BioEE 4920	Ocean Biodiversity	Cornell University	2017 – 2018
Guest Lecturer	BioEE 3500	Marine Ecology	Cornell University	2016
Assistant Instructor	MB 5350	Coral Reef Ecology	James Cook University	2014
Guest Lecturer	MB 5400	Life History of Reef Corals	James Cook University	2010 – 2013
Laboratory Demonstrator	MB 5400	Life History of Reef Corals	James Cook University	2010 – 2013
Laboratory Demonstrator	CH 337	Organic Chemistry Laboratory	University of Oregon	2004 – 2005

Curriculum & Teaching Development

Enrolled in the UCI Certificate in Teaching Excellence (CTEP). Self-paced online modules include active learning, assessment (formative and summative), collaborative learning, creating an including learning environment, how people learn, instructional technology, and course design. Expected completion in Spring 2019.

Textbook Curriculum Contribution

Campbell Biology (In Press, 12th Edition). Plastic waste. Eds Urry L, Cain M, Wasserman S, Minorsky P, and J Reece. Pearson Publishing.

Invited Speaker and Symposia Chair

2019 Gordon Research Conference on *Urbanization, Water and Food Security* – Hong Kong, SAR
2019 Environmental Defense Fund, *Combatting Marine Plastics* – San Francisco, CA
2019 National Academy of Sciences, expert workshop on *Interventions to Increase the Resilience of Coral Reefs* **VIEW**
2019 Chinese Academy of Fishery Sciences, expert workshop on *Aquaculture & Fishery Sciences and Innovations*
2019 The Nature Conservancy, expert workshop on *Coastal Sewage Pollution Strategies* – UCLA
2019 Brilliant Future Campaign, hosted by Chancellor Howard Gillman - UCI
2019 Department of Ecology Evolution and Marine Biology – UCSB
2019 College of Veterinary Medicine, Department of Biomedical Sciences – Oregon State University
2019 Session co-chair, International Coral Reef Symposium, Microbial Ecology, Holobionts and Model Organisms
2019 Session co-chair, Ocean Plastics Congress, sponsored by WWF & IUCN – Melbourne, Australia
2019 Global Oceans Seamounts Project – New York

Outreach & Service

University Outreach

2019 UC Dive & Boat Safety Consortium committee representative - UCI, UCB, UCM and UCOP
2019 UCI Office of Strategic Communications & Public Affairs video and voiceover, *Researching Ocean Health* **VIEW**
2019 Hosted and co-organized BioSci event booth for UCI Homecoming, *Plastics on Coral Reefs*
2019 Hosted and co-organized BioSci event booth for UCI Earth Day, *Reef Relief* **LINK**
2019 Ecology & Evolutionary Biology Departmental Seminar Series co-organizer (Eco Evo 201)

Proposal Review

2019 UC MEXUS-CONACYT review committee member (collaborative binational grants), UC Riverside
2019 Rhode Island Sea Grant ad hoc reviewer 2020-2022 Research RFP
2019 Hawaii Sea Grant ad hoc reviewer 2020-2022 Research RFP

Journal Review & Handling Editor

Philosophical Transactions of the Royal Society B, Proceedings of the Royal Society B, Royal Society Open Biology, Diseases of Aquatic Organisms, Annals of New York Academy of Sciences, Journal of Environmental Management**,** PLoS One, Proceedings of the National Academy of Science (PNAS), Marine and Freshwater Research, Microbiology Open, FEMS Microbiology Ecology, Coral Reefs, Oxford University Press.

Expert Working Groups

Chinese Academy of Fisheries Science & Environmental Defense Fund (China) - Sustainable Aquaculture	2019 – Present
The Nature Conservancy – Coastal Sewage Pollution Strategies	2019 – Present
Global Oceans Seamounts Project, Science Advisor	2019 – Present
NASA Ecological Forecasting of Marine Disease Outbreaks	2017 – Present
Action Network for Coral Health & Resilience – University of Hawaii and The Nature Conservancy	2013 – Present
NSF – Research Coordination Network, Ecology & Evolution of Infectious Disease	2014 – 2019
World Bank – Capturing Coral Reef and Related Ecosystem Services	2013 – 2019

International and Domestic Research Network

Research published with **131 different co-authors** and working in collaboration with over **38 institutions in 19 countries**.

Australia	Australian Institute of Marine Science, Great Barrier Reef Marine Park Authority, James Cook University, University of New South Wales, The University of Queensland, Australian Research Council Centre of Excellence for Coral Reef Studies
Canada	Carleton University, University of Toronto, Victoria University
China	University of Hong Kong, Chinese Academy of Science, Chinese Academy of Fishery Sciences, Hong Kong University of Science and Technology
Cuba	Environmental Defense Fund
Fiji	Wildlife Conservation Society
Guam	University of Guam
Indonesia	Hasanuddin University, The Nature Conservancy, Indonesian Institute of Science
Kiribati	Wildlife Conservation Society, Victoria University
Monaco	Centre Scientifique de Monaco
Myanmar	Pathein University, Mawlamyine University, Myeik University, University of Yangon
Philippines	University of the Philippines, De La Salle University, Palawan State University
Puerto Rico	University of Puerto Rico
Qatar	University of Qatar
Taiwan	Tunghai University
Thailand	Prince of Songkla University
UK	Fauna & Flora International
USA	Stanford University, Cornell University, NOAA, NASA, USGS, The Nature Conservancy, University of Hawaii, Environmental Defense Fund, Oregon State University, Wildlife Conservation Society, University of Washington, Pennsylvania State University, University of Maryland, Conservation International
Venezuela	Simon Bolivar University
Virgin Islands	USGS, University of the Virgin Islands

Data Sharing Agreements

2019 – UCI and Australian Institute of Marine Science Long-term Monitoring Program (AIMS-LTER)

Memberships

Current Ecological Society of America (ESA)
Current American Association for the Advancement of Science (AAAS)
Current Society for Conservation Biology (SCB)
Current International Society for Reef Studies (ISRS)
Current American Fisheries Society (AFS)

Field Qualifications

2019 – UC Dive & Boat Safety Member - UCI, UCB, UCM and UCOP
2019 – Enriched Air Nitrox, International Association of Nitrox and Technical Divers (IANTD)
2010 – VHF Marine Radio Operator, Australian Communications and Media Authority
2007 – Divemaster, Professional Association of Dive Instructors (PADI)
2007 – Emergency First Responder & Emergency Oxygen Provider, Diver's Alert Network (DAN)
2007 – Occupational Boat License
2007 – AS2299 Occupational Diver