

# DOUGLAS B. RASHER, Ph.D.

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## **EDUCATION**

2012 PhD, Biology Georgia Institute of Technology (Atlanta, GA, USA)  
2005 BS, Zoology Michigan State University (East Lansing, MI, USA)

## **PROFESSIONAL APPOINTMENTS**

2016-present Senior Research Scientist (PI), Bigelow Laboratory for Ocean Sciences  
2016-present Research Professor, Colby College  
2013-2016 Postdoctoral Research Associate, School of Marine Sciences, University of Maine  
2012-2013 Teasley Postdoctoral Fellow, School of Biology, Georgia Institute of Technology

## **HONORS AND AWARDS**

2020 Field Biology Award, Maxwell Hanrahan Foundation  
2014 George Mercer Award, Ecological Society of America  
2013 PhD Thesis Award, Sigma Xi  
2011 Graduate Research Excellence Award, Georgia Institute of Technology (x2)  
2010 Best Student Paper Award, Science Applications International

## **GRANTS AND FELLOWSHIPS**

2023-2026 *Collaborative Research: Revealing the changing trophic niches of large herbivorous fishes on modern coral reefs using an interdisciplinary approach.* US National Science Foundation.  
Principal Investigator, with TC Adam, DE Burkepille, M Leray, and JM Casey.  
Total award: \$1,542,312 ; Rasher: \$523,017

2022-2024 *Tracking rapid change in Gulf of Maine kelp forests.* The Louise H & David S Ingalls Foundation.  
Principal Investigator.  
Total award: \$100,000 ; Rasher: \$100,000

2022-2024 *Identifying the genetic diversity of Maine's wild kelp forests for habitat conservation and sustainable development of aquaculture.* The Nature Conservancy (TNC).  
Principal Investigator, with CJ Byron.  
Total award: \$50,341 ; Rasher: \$42,819

2022-2024 *Kelp blue carbon: Developing tools and techniques.* The Builder's Initiative.  
Co-Principal Investigator, with N Price, D Emerson, J Rich, P Countway, and M Kamalanathan.  
Total award: \$799,980 ; Rasher: \$81,118

2022-2024 *Collaborative Research: EAGER: Solving Darwin's Paradox: Combining emerging technologies to quantify energy fluxes on coral reefs.* US National Science Foundation.  
Co-Principal Investigator, with SJ Brandl, JS Madin, and EMP Madin.  
Total award: \$300,000 ; Rasher: \$21,212

2020-2023 *Collaborative Research: RUI: Linking physiological thermal thresholds to the distribution of lobster settlers and juveniles.* US National Science Foundation.  
Co-Principal Investigator, with ER Annis and M Frederich.  
Total award: \$872,457 ; Rasher: \$266,735

- 2019-2024 *EPSCoR RII Track-1: Molecule to ecosystem: Environmental DNA as a nexus of convergent research for Maine's coastal ecosystems*. US National Science Foundation. Senior Personnel, with D Emerson, H Leslie, K Beard, and MT Kinnison. Total award: \$20,000,000 ; Rasher: \$661,464
- 2018-2021 *The return of Maine's kelp forests: Patterns, drivers, and implications for industry*. Maine Sea Grant, National Oceanic and Atmospheric Administration. Principal Investigator, with RS Steneck. Total award: \$149,980 ; Rasher: \$149,980
- 2013-2017 *Collaborative Research: Century scale impacts to ecosystem structure and function of Aleutian kelp forests*. US National Science Foundation. Senior Personnel, with RS Steneck and JA Estes. Total award: \$574,617 ; Rasher: \$574,617
- 2011-2012 *Teasley Predoctoral Fellowship*. Georgia Institute of Technology. \$11,000
- 2006-2008 *IGERT Predoctoral Fellowship*. US National Science Foundation. \$60,000

### **PEER-REVIEWED SCHOLARLY WORKS**

TS Suskiewicz, JEK Byrnes, RS Steneck, R Russell, CJ Wilson, **DB Rasher**. Ocean warming undermines the recovery resilience of New England kelp forests following a fishery-induced trophic cascade. *Ecology* 105, e4334 (2024).

Outreach: *Boston Globe, National Geographic Magazine, NOVA (PBS), Maine Public Radio (NPR), etc.*

A Jane, **DB Rasher**, J Waller, E Annis, M Frederich. Rearing condition influences gene expression in postlarval American lobster (*Homarus americanus*). *PLoS One* 19, e0307169 (2024).

A Jane, **DB Rasher**, J Waller, E Annis, M Frederich. Developmental priorities shift with ontogeny during the early life stages of the American lobster *Homarus americanus* H. Milne Edwards, 1837 (Decapoda: Astacidea: Nephropidae). *Journal of Crustacean Biology* 44, ruae018 (2024).

SJ Brandl, JS Lefcheck, AE Bates, **DB Rasher**, T Norin. Can metabolic traits explain animal community assembly and functioning? *Biological Reviews* 98, 1–18 (2023).

BP Weitzman, BH Konar, MS Edwards, **DB Rasher**, MC Kenner, MT Tinker, JA Estes. Changes in abiotic drivers of green sea urchin demographics following the loss of a keystone predator. *Journal of Marine Sciences* 2023, 1–18 (2023).

IJ Westfield, J Gunnell, **DB Rasher**, B Williams, JB Ries. Cessation of hardground accretion by the cold-water coralline algae *Clathromorphum compactum* and *Clathromorphum nereostratum* predicted within two centuries. *Geochemistry, Geophysics, Geosystems* 23, e2021GC009942 (2022).

JS Lefcheck, GJ Edgar, RD Stuart-Smith, AE Bates, C Waldo, SJ Brandl, S Kininmonth, SD Ling, JE Duffy, **DB Rasher**, AF Agrawal. Species richness and identity both determine the biomass of global reef fish communities. *Nature Communications* 12, 6875 (2021).

B Williams, PTW Chan, IT Westfield, **DB Rasher**, J Ries. Ocean acidification reduces skeletal density of hardground-forming high-latitude crustose coralline algae. *Geophysical Research Letters* 48, e2020GL091499 (2021).

**DB Rasher**, RS Steneck, J Halfar, KJ Kroeker, JB Ries, MT Tinker, PTW Chan, J Fietzke, NA Kamenos, BH Konar, JS Lefcheck, CJD Norley, BP Weitzman, IT Westfield, JA Estes. Keystone predators govern the pathway and pace of climate impacts in a subarctic marine ecosystem. *Science* 369, 1351-1354 (2020).

Outreach: *New York Times*, *Scientific American Magazine*, *Yahoo News*, *Star Tribune*, *Chicago Tribune*, *Baltimore Sun*, *Publico*, *Inverse Magazine*, *Swiss Public Radio*, *National Public Radio (NPR)*, etc.

C Pimiento, F Leprieur, D Silvestro, JS Lefcheck, C Albouy, **DB Rasher**, M Davis, J-C Svenning, JN Griffin. Functional diversity of marine megafauna in the Anthropocene. *Science Advances* 6, eaay7650 (2020).

Outreach: *Newsweek Magazine*, *Gizmodo Magazine*, *Science Daily*, etc.

JJ Scott, TC Adam, A Duran, DE Burkepile, **DB Rasher**. Intestinal microbes: an axis of functional diversity among large marine consumers. *Proceedings of the Royal Society B: Biological Sciences* 287, 20192367 (2020).

Outreach: *Hakai Magazine*, *Science Daily*, *Technology Networks*, etc.

LGE Wilkins, M Leray, A O’Dea, B Yuen, R Peixoto, TJ Pereira, HM Bik, DA Coil, JE Duffy, EA Herre, H Lessios, NM Lucey, LC Mejia, **DB Rasher**, K Sharp, EM Sogin, RW Thacker, R Vega Thurber, WT Wcislo, EG Wilbanks, JA Eisen. Host-associated microbiomes drive structure and function of marine ecosystems. *PLoS Biology* 17, e3000533 (2019).

SJ Brandl, **DB Rasher**, IM Côté, JM Casey, ES Darling, JS Lefcheck, JE Duffy. Coral reef ecosystem functioning: eight core processes and the role of biodiversity. *Frontiers in Ecology and the Environment* 17, 445-454 (2019).

RS Steneck, SA Arnold, R Boenish, R de Leon, PJ Mumby, **DB Rasher**, MW Wilson. Managing recovery resilience in coral reefs against climate-induced bleaching and hurricanes: A 15-year case study from Bonaire, Dutch Caribbean. *Frontiers in Marine Science* 6, 265 (2019).

JS Lefcheck, BB Hughes, AJ Johnson, BW Pfirrmann, **DB Rasher**, AR Smyth, BL Williams, MW Beck, RJ Orth. Are coastal habitats important nurseries? A meta-analysis. *Conservation Letters* 12, e12645 (2019).

JS Lefcheck, AA Innes-Gold, SJ Brandl, RS Steneck, RE Torres, **DB Rasher**. Tropical fish diversity enhances coral reef functioning across multiple scales. *Science Advances* 5, eaav6420 (2019).

Outreach: *Caribbean Beat Magazine*, *Science and Development Network*, *Swedish Public Radio*, etc.

ZM Topor, **DB Rasher**, JE Duffy, SJ Brandl. Marine protected areas enhance coral reef functioning by promoting fish biodiversity. *Conservation Letters* 12, e12638 (2019).

KM Cammen, **DB Rasher**, RS Steneck. Predator recovery, shifting baselines, and the adaptive management challenges they create. *Ecosphere* 10, e02579 (2019).

RS Steneck, PJ Mumby, C MacDonald, **DB Rasher**, G Stoyale. Attenuating effects of ecosystem management on coral reefs. *Science Advances* 4, eaao5493 (2018).

CS Clements, **DB Rasher**, AS Hoey, VE Bonito, ME Hay. Spatial and temporal limits of coral–macroalgal competition. *Marine Ecology Progress Series* 586, 11-20 (2018).

**DB Rasher**, AS Hoey, ME Hay. Cascading predator effects in a Fijian coral reef ecosystem. *Scientific Reports* 7, 15684 (2017).

Outreach: *Scientific American Magazine*, *Discover Magazine*, *Gizmodo Magazine*, *Science & Avenir News*

JA Estes, M Heithaus, DJ McCauley, **DB Rasher**, B Worm. Megafaunal impacts on structure and function of ocean ecosystems. *Annual Review of Environment and Resources* 41, 83-116 (2016).

**DB Rasher**, EP Stout, S Engel, TL Shearer, J Kubanek, ME Hay. Marine and terrestrial herbivores display

convergent chemical ecology despite 400 million years of independent evolution. *Proceedings of the National Academy of Sciences USA* 112, 12110-12115 (2015).

Outreach: AAAS News, Chemical and Engineering News, Hakai Magazine, etc.

**DB Rasher**, ME Hay. Competition induces allelopathy but suppresses growth and anti-herbivore defense in a chemically rich seaweed. *Proceedings of the Royal Society B: Biological Sciences* 281, 20132615 (2014).

**DB Rasher**, AS Hoey, ME Hay. Consumer diversity interacts with prey defenses to drive ecosystem function. *Ecology* 94, 1347-1358 (2013).

Outreach: National Science Foundation, Thomson-Reuters News, American Museum of Natural History, Consortium for Ocean Leadership, Coral Reef Alliance, etc.

Accolades: George Mercer Award, Ecological Society of America

TL Shearer, **DB Rasher**, TW Snell, ME Hay. Gene expression patterns of the coral *Acropora millepora* in response to contact with macroalgae. *Coral Reefs* 31, 1177-1192 (2012).

**DB Rasher**, S Engel, V Bonito, GJ Fraser, JP Montoya, ME Hay. Effects of herbivory, nutrients, and reef protection on algal proliferation and coral growth on a tropical reef. *Oecologia* 169, 187-198 (2012).

RS Lasley-Rasher, **DB Rasher**, ZH Marion, RB Taylor, ME Hay. Predation constrains host choice for a marine mesograzer. *Marine Ecology Progress Series* 434, 91-99 (2011).

**DB Rasher**, EP Stout, S Engel, J Kubanek, ME Hay. Macroalgal terpenes function as allelopathic agents against reef corals. *Proceedings of the National Academy of Sciences USA* 108, 17726-17731 (2011).

Outreach: National Geographic Magazine, Time Magazine, Wired Magazine, AAAS Science Now! (Science), NBC News, Chemical and Engineering News, BBC Radio, ABC Radio, Fiji Radio, etc.

Hay ME, **Rasher DB**. Coral reefs in crisis: reversing the biotic death spiral. *F1000 Biology Reports* 2, 71 (2010).

**DB Rasher**, ME Hay. Seaweed allelopathy degrades the resilience and function of coral reefs. *Communicative and Integrative Biology* 3, 564-566 (2010).

**DB Rasher**, ME Hay. Chemically rich seaweeds poison corals when not controlled by herbivores. *Proceedings of the National Academy of Sciences USA* 107, 9683-9688 (2010).

Outreach: National Science Foundation, Discover Magazine, National Geographic Magazine, R&D Magazine, MSNBC News, Yahoo News, Sydney Morning Herald, Times of Malta, Telegraph UK, Fiji Sun, Bionieuws Netherlands, San Diego Times, National Public Radio (NPR), CBC Radio, etc.

#### **BOOK CHAPTERS AND TECHNICAL REPORTS**

DE Burkepile, **DB Rasher**, TC Adam, AS Hoey, ME Hay. Functional Variation Among Parrotfishes: Are they Complementary or Redundant? in *Biology of Parrotfishes* (AS Hoey and RM Bonaldo, eds.) 1st Edition (CRC Press). Pages 134-160 (2018).

RS Steneck, SN Arnold, R de Leon, **DB Rasher**. *Status and Trends of Bonaire's Coral Reefs: Slow but Steady Signs of Resilience*. **STINAPA Government Report**, 93 pages plus Appendices (2015).

RS Steneck, SN Arnold, **DB Rasher**. *Status and Trends of Bonaire's Coral Reefs: Causes for Optimism*. **STINAPA Government Report**, 98 pages plus Appendices (2013).

## **PROFESSIONAL PRESENTATIONS**

### **Invited Presentations: University Seminar Series, Public Forums, and Workshops**

- 2024 State Aquaculture Kelp Policy Forum, Maine Department of Marine Resources (Augusta, ME, USA)
- 2024 GBH Educators Webinar (Boston, MA, USA)
- 2024 Maine Department of Marine Resources (Boothbay, ME, USA)
- 2024 Predator Dialogue Series, Simon Fraser University and Canada First Nations (Victoria, BC, CA)
- 2024 Atlantic Kelp Forest Working Group, Blue Carbon Canada and University of Victoria (Halifax, NS, CA)
- 2024 Bigelow Laboratory for Ocean Sciences (East Boothbay, ME, USA)
- 2024 Bowdoin College (Brunswick, ME, USA)
- 2024 Boothbay Region Land Trust (Boothbay, ME, USA)
- 2023 Green Sea Urchin Research Collaborative, Maine DMR (West Boothbay, Maine, USA)
- 2022 Dalhousie University (Halifax, NS, Canada)
- 2020 Gulf of Maine Research Institute (Portland, ME, USA)
- 2020 Cornell University (Isle of Shoals, ME, USA)
- 2020 Café Scientifique, Bigelow Laboratory for Ocean Sciences (East Boothbay, ME, USA)
- 2019 University of Washington (Seattle, WA, USA)
- 2019 University of Florida (Gainesville, FL, USA)
- 2019 University of Rhode Island (Kingston, RI, USA)
- 2019 Harvard University (Cambridge, MA, USA)
- 2018 Moore Foundation Symbiosis Workshop, Smithsonian Tropical Research Inst. (Bocas del Toro, Panama)
- 2018 Café Scientifique, Bigelow Laboratory for Ocean Sciences (East Boothbay, ME, USA)
- 2018 Northeastern University (Nahant, MA, USA)
- 2018 University of Massachusetts (Boston, MA, USA)
- 2018 University of Maine (Orono, ME, USA)
- 2017 Maine Maritime Academy (Castine, ME, USA)
- 2017 Maine Department of Marine Resources (Boothbay, ME, USA)
- 2017 Innovation and Leadership Series, The Music Hall (Portsmouth, NH, USA)
- 2017 Café Scientifique, Bigelow Laboratory for Ocean Sciences (East Boothbay, ME, USA)
- 2017 The Biology Colloquium, Florida State University (Tallahassee, FL, USA)
- 2017 Florida State University (Tallahassee, FL, USA)
- 2016 College of William and Mary / VIMS (Gloucester Point, VA, USA)
- 2016 University of California (Santa Barbara, CA, USA)
- 2016 Bigelow Laboratory for Ocean Sciences (East Boothbay, ME, USA)
- 2015 University of Michigan (Ann Arbor, MI, USA)
- 2015 Brown University (Providence, RI, USA)
- 2015 University of California (Santa Cruz, CA, USA)
- 2014 University of Maine (Orono, ME, USA)
- 2013 European Union Global Climate Change Alliance Workshop (Koror, Palau)
- 2013 Darling Marine Center, University of Maine (Walpole, ME, USA)
- 2011 University of New South Wales (Sydney, NSW, Australia)
- 2009 University of the South Pacific (Suva, Fiji)

### **Conference Presentations (as lead author and speaker)**

- 2024 52<sup>nd</sup> Benthic Ecology Meeting (Charleston, SC, USA)
- 2023 Annual Meeting, National Association of Marine Laboratories (Harpwell, ME, USA)
- 2023 51<sup>st</sup> Benthic Ecology Meeting (Miami, FL, USA)
- 2023 Maine Blue Carbon Symposium (Portland, ME, USA)
- 2019 Gulf of Maine 2050 International Symposium (Portland, ME, USA)
- 2019 149th American Fisheries Society Meeting (Reno, NV, USA)
- 2018 4th World Conference on Marine Biodiversity (Montreal, QC, Canada)
- 2016 97th Western Society of Naturalists Meeting (Monterey, CA, USA)
- 2016 Gordon Research Conference on Ocean Global Change Biology (Waterville Valley, NH, USA)
- 2016 45th Benthic Ecology Meeting (Portland, ME, USA)
- 2014 95th Western Society of Naturalists Meeting (Tacoma, WA, USA)
- 2012 Teasley Symposium, Georgia Institute of Technology (Atlanta, GA, USA)
- 2012 12th International Coral Reef Symposium (Cairns, QLD, Australia)

- 2012 41st Benthic Ecology Meeting (Norfolk, VA, USA)
- 2011 92nd Western Society of Naturalists Meeting (Vancouver, WA, USA)
- 2010 95th Ecological Society of America Meeting (Pittsburgh, PA, USA)
- 2010 39th Benthic Ecology Meeting (Wilmington, NC, USA)

#### **Guest Lectures in University Courses**

- 2024 Science Journalism, Boston University (Boston, MA, USA)
- 2022 Environmental Studies Seminar, Dartmouth College (Hanover, NH, USA)
- 2022 Oceanography, Maine College of Art and Design (Portland, ME, USA)
- 2021 Environmental Studies Seminar, Dartmouth College (Hanover, NH, USA)
- 2021 Marine Ecology, University of Southern Maine (Portland, ME, USA)
- 2020 Marine Biology Graduate Seminar, University of Maine (Orono, ME, USA)
- 2019 Invertebrate Zoology, University of Southern Maine (Portland, ME, USA)
- 2019 Marine Communities, Colby College (Waterville, ME, USA)
- 2019 Water and Human Rights, Colby College (Waterville, ME, USA)
- 2018 Coral Reef Methods, Colby College (Waterville, ME, USA)
- 2018 Marine Communities, Colby College (Waterville, ME, USA)
- 2017 Chemical Ecology, University of California (Davis, CA, USA)
- 2017 Marine Communities, Colby College (Waterville, ME, USA)
- 2016 The Changing Arctic, University of Maine (Orono, ME, USA)
- 2014 Introduction to Ocean Sciences, University of Maine (Walpole, ME, USA)
- 2013 Coral Reefs, University of Maine (Walpole, ME, USA)
- 2012 Chemical Ecology, Georgia Institute of Technology (Atlanta, GA, USA)
- 2011 The Pacific Program, Georgia Institute of Technology (Heron Island, QLD, Australia)
- 2009 Marine Ecology, Georgia Institute of Technology (Atlanta, GA, USA)

#### **TEACHING EXPERIENCE**

##### **Colby College**

- 2022 Instructor of Record, *Seafood Forensics: Combating Crime in Ocean Food Systems* (ES 239, Fall)
- 2021 Instructor of Record, *Seafood Forensics: Combating Crime in Ocean Food Systems* (ES 239, Fall)
- 2020 Instructor of Record, *Seafood Forensics: Combating Crime in Ocean Food Systems* (ES 234, Fall)
- 2020 Instructor of Record, *Seafood Forensics: Combating Crime in Ocean Food Systems* (ES 239, Spring)
- 2019 Instructor of Record, *Seafood Forensics: Combating Crime in Ocean Food Systems* (ES 298, Spring)
- 2019 Co-Instructor of Record, *Coral Reef Ecosystems* (ES 297, January Term)

##### **University of Maine**

- 2013 Teaching Assistant, *Introduction to Research Diving* (SMS 491)

##### **Georgia Institute of Technology**

- 2011 Teaching Assistant, *Organismal Biology Laboratory* (BIOL 1520)
- 2011 Teaching Assistant, *Ecology and Evolution - An Australian Perspective* (BIOL 3100)

##### **Michigan State University**

- 2005 Teaching Assistant, *Organismal Biology Laboratory* (LBS 144)
- 2004 Teaching Assistant, *Organismal Biology Laboratory* (LBS 144)

#### **MENTORSHIP**

##### **Postdoctoral Advisor**

- 2024-2026 Sara Swaminathan, Ph.D.
- 2023-2024 Yasmina Shah Esmaeili, Ph.D.
- 2018-2019 Thew Suskiewicz, Ph.D.
- 2017-2018 Jonathan Lefcheck, Ph.D.

##### **PhD Advisor**

2020-2025 Rene Francolini (University of Maine, Orono, ME, USA)  
 2020-2025 Dara Yiu (University of Maine, Orono, ME, USA)  
 2020-2025 Shane Farrell (University of Maine, Orono, ME, USA)

#### **Thesis Committee Member**

2024-2028 Curtis Morris, PhD candidate (University of Massachusetts, Boston, MA, USA)  
 2021-2025 Kyle Oliveira, PhD candidate (University of Maine, Orono, ME, USA)  
 2020-2024 Emily Pierce, PhD candidate (University of Maine, Orono, ME, USA)  
 2018-2023 Lauren Bell, PhD candidate (University of California, Santa Cruz, CA, USA)  
 2021-2023 Emily Schutt, MSc candidate (University of New England, Biddeford, ME, USA)  
 2019-2021 Ariella Danziger, MSc candidate (University of New England, Biddeford, ME, USA)  
 2017-2020 Bryce Risley, MSc candidate (University of Maine, Orono, ME, USA)  
 2014-2016 Ruleo Camacho, MSc candidate (University of Maine, Orono, ME, USA)

#### **Undergraduate Research Advisor**

2024 Phoebe Churney, Independent Study (Maine Maritime Academy)  
 2024 Jeremy Goldrick, Independent Study (Colby College)  
 2023 Elias Porter, Independent Study (Colby College)  
 2023 Emma Nickerson, Independent Study (University of Maine)  
 2023 Christina Shaner, Bigelow NSF REU Program (Hood College)  
 2022 Allie Ouimet, Independent Study (University of Maine)  
 2022 Phoebe Churney, Our World Underwater/AAUS Scholar (Maine Maritime Academy)  
 2022 Julie Karlsson, Bigelow NSF REU Program (Hood College)  
 2022 Riley Fitz, Bigelow NSF REU Program (Hood College)  
 2021 Hannah O'Loughlin, Bigelow NSF REU Program (Vassar College)  
 2021 Alexis Mullen, Bigelow NSF REU Program (Bowdoin College)  
 2021 Zaie Nursey, Independent Study (Colby College)  
 2020 Zaie Nursey, Independent Study (Colby College)  
 2020 Ajay Patel, Bigelow NSF REU Program (University of Florida)  
 2019 Carlin Schildge, Bigelow NSF REU Program (Colby College)  
 2019 Shane Farrell, Independent Study (Lawrence University)  
 2018 Colleen George, Independent Study (Colby College)  
 2018 Sydney Greenlee, Independent Study (Colby College)  
 2018 Courtney Stuart, Bigelow NSF REU Program (Stony Brook University)  
 2018 Shane Farrell, Our World Underwater/AAUS Scholar (Lawrence University)  
 2017 Anne Innes-Gold, Bigelow NSF REU Program (Vassar College)  
 2017 Nicole Roberts, Senior Honors Thesis (Amherst College)  
 2016 Grant Dickey, Capstone Thesis (University of Maine)  
 2016 Eliza Lehner, Work Term Internship (Bennington College)

#### **EXTERNAL SERVICE**

##### **Peer Review Service**

*Manuscript Reviewer for:* Biological Conservation, Biology Letters, Bioscience, Coral Reefs, Current Biology, Ecology, Ecological Applications, Ecosphere, Ecology Letters, Ecology and Evolution, Frontiers in Ecology and the Environment, Frontiers in Ecology and Evolution, Functional Ecology, Global Change Biology, Journal of Animal Ecology, Journal of Ecology, Journal of Experimental Marine Biology and Ecology, Journal of Fish Biology, Journal of Phycology, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Marine Environmental Research, Methods in Ecology and Evolution, Nature, Nature Climate Change, Nature Ecology and Evolution, Nature Communications, Oecologia, Oikos, PLoS One, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society B: Biological Sciences, Restoration Ecology, Science, Science Advances, Scientific Reports, Trends in Ecology and Evolution

*External Grant Proposal Reviewer for:* Australian Museum, National Geographic Society, NOAA Coral Reef Conservation Program, US NSF – Biological Oceanography Program, US NSF Ocean Sciences Postdoctoral

Research Fellowship Program, North Pacific Research Board, Schmidt Ocean Institute, California Sea Grant (NOAA), Washington Sea Grant (NOAA)

Panel Member for: NOAA Alaska Sea Grant, NOAA California Sea Grant, US National Science Foundation (Biological Oceanography Program)

### **Disciplinary Societal Service**

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| 2023 | Session Co-organizer, 2023 Benthic Ecology Meeting <ul style="list-style-type: none"><li>• <i>Paradigms of marine ecology</i></li></ul>                                     |
| 2021 | Session Co-organizer, 2021 RARGOM Annual Science Meeting <ul style="list-style-type: none"><li>• <i>Species interactions in oceanic and coastal ecosystems</i></li></ul>    |
| 2016 | Session Co-organizer, 13th International Coral Reef Symposium <ul style="list-style-type: none"><li>• <i>Functional management of multispecies reef fisheries</i></li></ul> |
| 2012 | Session Co-organizer, 12th International Coral Reef Symposium <ul style="list-style-type: none"><li>• <i>Ecological dynamics, resilience &amp; phase shifts</i></li></ul>   |

### **Advisory and Working Group Service**

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| 2024-present | Member, Atlantic Kelp Forest Working Group, Blue Carbon Canada                    |
| 2023-present | Advisor, Maine DMR Coastal Long-term Monitoring Program                           |
| 2022-present | Member, Global Scientific Advisory Committee, Reef Life Survey                    |
| 2021-2022    | Member, Environment and Wildlife Working Group, Maine Governor's Office of Energy |
| 2019         | Member, American Lobster Research Collaborative, NOAA/Maine DMR                   |
| 2018         | Member, Education Working Group, Smithsonian MarineGEO                            |

### **INSTITUTIONAL SERVICE**

#### **Bigelow Laboratory for Ocean Sciences**

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| 2024-present | Member, IACUC Committee                    |
| 2023-present | Chair, Dive Control Board                  |
| 2019-2023    | Chair, Education Committee                 |
| 2019-2020    | Representative to the Board, Alternate     |
| 2017-2019    | Coordinator, Postdoctoral Training Program |
| 2016-2019    | Member, Education Committee                |
| 2016-2018    | Member, Safety Committee                   |

#### **Georgia Institute of Technology**

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| 2009-2010 | Treasurer, Biology Graduate Student Association |
| 2007-2008 | President, Biology Graduate Student Association |
| 2007      | Seminar Series Chair, NSF IGERT Program         |