

CRAIG W. OSENBERG

BIO SKETCH

Professor Osenberg graduated with highest honors from the University of California Santa Barbara (BA, Biological Sciences, 1980), and later completed his graduate studies at the Kellogg Biological Station, Michigan State University (PhD, 1988). He went on to post-doctoral and research appointments at UC Santa Barbara and in 1992 joined the faculty at UC Berkeley. In 1995 he moved to the University of Florida, where he also served as Graduate Coordinator and Department Chair. Craig joined the University of Georgia in 2014, where he holds an endowed Professorship in Ecology in the Odum School of Ecology, and has served as the Graduate Coordinator and head of the Promotion and Tenure unit.

His research in population and community ecology tackles problems across a diversity of habitats (terrestrial, freshwater, estuarine, and marine) and organisms (fish, amphibians, plants, invertebrates), but is organized around several interrelated research themes: (1) population dynamics, especially the role of stage-structure and the effects of density dependence; (2) the development and application of statistical tools designed to quantify impacts of human activities on ecological systems (including marine reserves); (3) the development and application of meta-analysis and quantitative synthesis; and (4) coral reef dynamics, especially the role of species interactions (including mutualisms) on the growth and survival of corals and the resulting feedbacks on coral-associated organisms. These projects have been supported by the National Science Foundation, the National Center for Ecological Analysis and Synthesis, NSF IGERT program, Sea Grant, French-American Cultural Exchange, the Marsden Fund of New Zealand, and the European Union. He and his students have published over 190 peer-reviewed papers.

Professor Osenberg was elected a Fellow of the Ecological Society of America in 2015. He also was Chair of the Aquatic Section of ESA and Editor-in-Chief of *Oecologia*, and has served on the editorial boards of *Ecology*, *Ecological Monographs* and *Frontiers in Marine Science*. He has served as a consultant and advisor to a diversity of groups applying science to important environmental issues, including impacts of a power plant in coastal California, the design and assessment of marine protected areas in Costa Rica and the Mediterranean, and restoration of the Everglades and the Gulf of Mexico.

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CRAIG W. OSENBURG

Curriculum Vitae

January 2025

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| Address: | Odum School of Ecology 0103 Ecology Building 140 East Green Street University of Georgia Athens, GA 30602-2202 | Office: | 25 Ecology Building |
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| | | E-mail: | osenberg@uga.edu |
| | | Web page: | http://osenberglab.ecology.uga.edu |

Education

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| Ph.D. | Michigan State University: Zoology, 1988 (Earl E. Werner and Gary G. Mittelbach) |
| B.A. | University of California, Santa Barbara: Biological Sciences, 1980 (summa cum laude) |

Research Interests

- Size, stage-, and spatially-structured interactions, and their implications for population dynamics and community patterns.
- The application of ecological theory to the design of marine reserves and fisheries management strategies.
- The design and implementation of whole ecosystem experiments and environmental assessment studies.
- Meta-analysis and the quantification of effect size and its variation among organisms and environments.
- The roles of predation, competition and resource limitation in freshwater and marine ecosystems.

Academic Appointments

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| 2014-present | Professor, Odum School of Ecology, University of Georgia |
| 2014-2021 | Courtesy Professor, Department of Biology, University of Florida |
| 2013-2014 | Chair, Department of Biology, University of Florida |
| 2013-2014 | Affiliate Curator in Invertebrate Zoology, Department of Natural History, Florida Museum of Natural History, University of Florida |
| 2003-2014 | Professor, Department of Biology (formerly Zoology), University of Florida |
| 2007-2009 | Honorary Research Associate, Victoria University of Wellington |
| 2003 | Instructor, Pymatuning Lab, University of Pittsburgh |
| 1998-2003 | Associate Professor, Department of Zoology, University of Florida |
| 1995-1998 | Assistant Professor, Department of Zoology, University of Florida |
| 1991-1996 | Assistant Professor, Department of Integrative Biology, UC Berkeley (on leave without pay, 1991-92, 1995-96) |
| 1989-1996 | Assistant Research Biologist, Marine Science Institute, UC Santa Barbara |
| 1988-1993 | Research Associate, Kellogg Biological Station, Michigan State University |
| 1988-1992 | Lecturer, Department of Biological Sciences, UC Santa Barbara |
| 1988-1991 | Post-graduate Research Biologist, Marine Science Institute, UC Santa Barbara |
| 1982-1988 | Graduate Assistant, Kellogg Biological Station, Michigan State University |
| 1981,1982,1986 | Teaching Assistant, Michigan State University |
| 1981-1982 | Visiting Researcher, Catalina Marine Science Center, University of Southern California |

Honors and Awards

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| 2023-present | UGA Athletic Association Professor in Ecology (endowed), University of Georgia |
| 2017 | Purple Heart award, University of Georgia. Awarded by the graduate students in recognition of exceptional service and dedication to the graduate students of the Odum School of Ecology. |

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| 2015-present | Fellow of the Ecological Society of America (elected for life) |
| 2008 | Invited plenary speaker at joint meeting of European Ecological Federation and the Ecological Society of Germany, Austria and Switzerland; Leipzig, Germany |
| 2007-2009 | Honorary Research Associate, Victoria University of Wellington |
| 2007 | Invited Professor, Université de Perpignan, France |
| 2002-2005 | University of Florida Research Foundation Professor |
| 2001 | W.T. Edmondson Lecturer, University of Washington, March 2001 |
| 2000 | Faculty opponent for Ph.D. disputation, University of Umeå, Sweden. |
| 1987 | Kellogg Biological Station Scholarship Award |
| 1985-1986 | MSU College of Natural Sciences Fellowship |
| 1982-1985 | National Science Foundation Predoctoral Fellowship |
| 1981 | MSU Graduate Office Scholarship |
| 1980 | Outstanding graduating senior in Biological Sciences, UC Santa Barbara |

Professional Activities

Consultant: Marine Review Committee; California Coastal Commission; Southern California Edison; South Florida Water Management District.

Reviewer: Journals, books and publishers: American Naturalist; Australian Journal of Ecology; Biology Letters; Biogeosciences; BioScience; Bulletin of Marine Sciences; Cambridge University Press; Canadian Journal of Fisheries and Aquatic Sciences; Canadian Journal of Zoology; Conservation Biology; Copeia; Ecological Monographs; *Ecological Morphology: Integrative Organismal Biology*; Ecology; Ecology Letters; eLife; Environmental Biology of Fishes; Environmental Conservation; Frontiers in Marine Science; Journal of Experimental Marine Biology and Ecology; *Food Webs: Integration of Patterns and Dynamics*; Journal of the North American Benthological Society; Marine Ecology Progress Series; Marine Environmental Research; Methods in Ecology and Evolution; Nature Communications; Nature Ecology and Evolution; Nature Sustainability; Oecologia; Oikos; Oxford University Press; Peer J; Philosophical Transactions B (Royal Society); Proceedings of the National Academy of Science; Restoration Ecology; Science; Springer-Verlag; Theoretical Ecology; Transactions of the American Fisheries Society; Zoomorphology

Funding Agencies: Academy of Finland (Research Council for Biosciences and Environment); Dutch Research Council (NOW Talent Programme; Domain Science); Florida Game and Fresh Water Fish Commission; French American Cultural Exchange; Israel Science Foundation; Minerals Management Service (U.S. Department of the Interior); National Geographic Society; National Science Foundation; National Sciences and Engineering Council of Canada; NOAA's National Undersea Research Program; NOAA/NURC (Caribbean Marine Research Center); Netherland Organisation for Scientific Research; Oregon Sea Grant Program; U.S. Department of Energy; University of California Pacific Rim Research Program.

Science Advisor:

Coastal Waters Consortium II: The Effects of the Macondo Oil Spill on Coastal Ecosystems, a research consortium headed by LUMCON (and involving 15 institutions) that is funded by the Gulf of Mexico Research Initiative. (2015-2019).

Coastal Waters Consortium: The Effects of the Macondo Oil Spill on Coastal Ecosystems, a research consortium headed by LUMCON (and involving 11 institutions) that is funded by the Gulf of Mexico Research Initiative. I served as one of three members of the Science Advisory Board. (2012-2015).

Forever Costa Rica, a cooperative program between The Nature Conservancy and the Costa Rican government. I provided input on design of monitoring programs to assess the effects of marine protected areas. (2010)

EMPAFISH: European marine protected areas as tools for fisheries management and conservation. This project is funded by the European Commission, involves ~40 scientists

from 14 institutions and 5 EU countries, and is designed to evaluate the use of MPAs in the Mediterranean. I served as the Science Advisor with particular reference to ecological effects, impact assessment and the application of meta-analysis. (2006-2008).

Grant Review Panels:

NSF NRT review panel (2019)
 NSF EPSCoR reverse site visit panel (2018)
 NSF Graduate Research Fellowship Program (2016)
 NSF Biological Oceanography panel (2015)
 NSF Biological Oceanography panel (2010)
 NSF Advisory Review Committee, Postdoctoral Research Fellowships in Biological Informatics Program (2008)
 NSF Biological Oceanography panel (2004)
 NSF panel: Interdisciplinary Informatics Post-doctoral Fellowships (2003)
 NSF panel: IGERT (2000)
 (others declined due to scheduling conflicts with fieldwork)

Editorial Boards:

Editor-in-Chief:
Oecologia (2001-2013; Aquatic Ecology)
 Associate Editor/Editorial board:
Frontiers in Marine Sciences (Review Editor: 2014 - 2021)
Ecology (1998 – 2001)
Ecological Monographs (1998 – 2001)
Oecologia (1997 - 2000)

Committees and other service (since 1991):

International:

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| 2015 | External evaluator, PhD dissertation, James Cook University, Australia |
| 2012 | Rapporteur (external evaluator), PhD dissertation, Université Pierre et Marie Curie, Paris, France. |
| 2006-2013 | Chair, Moorea Marine Protected Area Consortium; a committee representing scientists from France, US and New Zealand. |
| 2008 | External evaluator, PhD dissertation, Victoria University Wellington, New Zealand. |
| 2000 | Faculty opponent for Ph.D. disputation, University of Umeå, Sweden. Appointed by Faculty of Science and Technology of Umeå University |

University of Georgia

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| 2024-present | Graduate-Faculty Advisory Committee, Odum School of Ecology |
| 2024-2025 | Appeals Committee, Graduate School |
| 2023-2026 | Graduate Council, Graduate School |
| 2023-2024 | Program Committee, Graduate School |
| 2023-2026 | GCE Executive Committee (oversees an NSF LTER program) |
| 2023 | Search Committee for HR Operations Manager, Odum School of Ecology |
| 2022 | Search Committee for Administrative Financial Director, Odum School of Ecology |
| 2022-2023 | Search Committee for Faculty in Marine Science AI/Conservation cluster hire |
| 2021-2025 | University Appeals Committee |
| 2020-2021 | Slate Implementation Team, Graduate School |
| 2019-present | Academic Programs Committee, Odum School of Ecology |
| 2019-present | Executive Committee, Odum School of Ecology |
| 2019-present | Chair, Graduate Program Committee, Odum School of Ecology |
| 2019-2020 | Policy and Planning Committee of the Graduate Council, UGA |
| 2019-2021 | Wall Committee, Odum School of Ecology (ad hoc) |
| 2018 | Chair, Search Committee for Graduate Program Assistant (Acad. Adv. III) |

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| 2018 | Search Committee for Executive Assistant to the Dean (Admin Asst II), Odum School of Ecology |
| 2017-2020 | Graduate Council, Graduate School |
| 2017-2019 | Program Committee of the Graduate Council, Graduate School |
| 2017-2018 | Chair, Steering Committee, Odum School of Ecology |
| 2017 | Search Committee for Administrative Financial Director, Odum School of Ecology |
| 2016-2019 | Head, Promotion and Tenure Committee, Odum School of Ecology |
| 2016 | 8000 Revision Committee, Odum School of Ecology |
| 2015-2016 | Chair, Ecology Search Committee, Odum School of Ecology |
| 2014-present | Graduate Committee, Odum School of Ecology |
| 2014-2019 | Promotion and Tenure Committee, Odum School of Ecology |

University of Florida

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| 2013-2014 | Chair, Department of Biology |
| 2012-2013 | Biology Recruitment Committee |
| 2012-2014 | SNRE steering committee |
| 2010 | UF Doctoral Dissertation Advisor/Mentoring Awards Program, Selection Committee |
| 2010-2014 | UF Oil Spill Task Force |
| 2010-2014 | Chair, Ecology subgroup; UF Oil Spill Task Force |
| 2009 | Quantitative/Theoretical Ecologist Search Committee, Biology (Chair; stepped down during process due to COI) |
| 2009-2012 | Graduate Council (UF Graduate School; elected) |
| 2009-2010 | Biology Building Task Force (Chair) |
| 2009-2012 | Biology Advisory Council |
| 2008 | Integration Committee (to oversee the merger of the Botany and Zoology Departments and Biological Sciences Program) |
| 2007 | Graduation Marshall, May 2007 CLAS commencement |
| 2006-2014 | Diving Safety Board (appointed by Provost) |
| 2005-2006 | College (CLAS) Graduate Council |
| 2005-2006 | Zoology Merit Pay Advisory Committee |
| 2005-2007 | Biological Sciences Advisory Committee |
| 2005 | Zoology Functional Morphology Search Committee |
| 2004 | Zoology Ecology Search Committee |
| 2003-2007 | Graduate Coordinator, Department of Zoology |
| 2003-2007 | Zoology Executive Committee |
| 2003-2009 | Zoology Space Committee |
| 2003-2004 | Community Ecology Search Committee, Zoology |
| 2002-2004 | Zoology Graduate Committee |
| 2001-2002 | Zoology Strategic Planning Committee |
| 2001-2002 | Zoology Recruitment Committee |
| 2000-2002 | Zoology Executive Committee |
| 2001 | Organizing committee, Larry R. McEdward Memorial Symposium |
| 1999-2000 | Arthur R. Marshall Eminent Scholar Search Committee |
| 1998-1999 | Theoretical Ecology/Evolutionary Biology Search Committee, Zoology (Co-chair) |
| 1999-2003 | Zoology Seminar Committee |
| 1999 | Graduation Marshall, May 1999 commencement. |
| 1998-2004 | CNRE Graduate Program Committee, UF (College of Natural Resources and Environment) |
| 1998-2001 | Faculty supervisor of Zoology Graphic Design Laboratory and graphic artist |
| 1998-2000 | Zoology Graduate Committee |
| 1998 | Genetics Lecturer Search Committee |
| 1998 | Seahorse Key Boat Committee |
| 1996-1999 | Zoology Seminar Committee (Chair) |
| 1997-1998 | Quantitative Geneticist Search Committee, Zoology |

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| 1997-1999 | University Minority Mentorship Program |
| 1995-1996 | Strategic Planning Committee, Zoology |
| <i>Societies, Centers, funding agencies, and governmental agencies</i> | |
| 2022 | Co-organizer, ESA symposium on meta-analysis |
| 2016-2019 | Fellows Committee, Ecological Society of America |
| 2012 | Organizing Committee: <i>Trends in Ecological Analysis and Synthesis</i> . Symposium sponsored by the National Center for Ecological Analysis and Synthesis. |
| 2008-2012 | Science Advisory Board: National Center for Ecological Analysis and Synthesis. |
| 2002 | Thomas Frost Award Committee (Ecological Society of America) |
| 2001-2003 | Chair (elected), Aquatic Ecology section of the Ecological Society of America |
| 2001-2003 | Council member, Ecological Society of America |
| 2000-2001 | Member, Marine Ornamentals Organizing Committee, 2 nd <i>International Conference on Marine Ornamentals</i> . |
| 2000 | Member, Ecological Society of America Buell/Braun Awards Committee |
| 1999-2001 | Vice-Chair (elected), Aquatic Ecology section of the Ecological Society of America |
| 1996-1998 | Organizer of working group at the NSF National Center for Ecological Analysis and Synthesis: <i>Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data</i> . |
| 1996 | Review Panel -- charged with <i>Independent Technical Review of Studies by Southern California Edison on Impact to Kelp Resulting from the Operation of the San Onofre Nuclear Generating Station</i> (May-June 1996); 3-member panel convened by California Coastal Commission and Southern California Edison. |
| 1993 | Chair, Nominating Committee of the Aquatic Section of the Ecological Society of America |
| 1992 | Organizer of symposium, <i>Population Dynamics and Species Interactions: the Importance of Size- and Stage-Structure</i> , held at Annual Meeting of the Ecological Society of America, Honolulu, Hawaii (August 1992). |
| 1992 | Co-organizer of symposium, <i>The Design of Environmental Impact Assessment Studies: Conceptual Issues and Application</i> , held at Second International Temperate Reef Symposium, Auckland, New Zealand (January 1992). |
| <i>University of California, Berkeley (1992-1995):</i> | |
| 1994-1995 | Graduate Student-Faculty Committee, Integrative Biology |
| 1994-1995 | Library Committee, Integrative Biology |
| 1992-1995 | Departmental Graduate Advisor, Integrative Biology |
| 1994 | Ecology Working Group, Integrative Biology/Env. Sci. Policy Management |
| 1993-1994 | Chair, Seminar Committee, Integrative Biology |
| 1993-1994 | Chair, Aquatic and Terrestrial Affinity Group |
| 1992-1993 | Ecology Graduate Planning Group |
| 1992-1993 | Affirmative Action Committee, Integrative Biology |
| 1992-1994 | Seminar Committee, Integrative Biology |
| <i>Other academic institutions:</i> | |
| 1998-2005 | Chair, External Scientific Advisory Committee for the University of California Coastal Toxicology Program |
| 1990-1994 | Southern California Educational Initiative Steering Committee, University of California |
| 1992 | SCEI subcommittee on chemistry, University of California |

Societies: American Society of Naturalists
Ecological Society of America
Sigma Xi, The Scientific Research Society

Grants (pending)

None

Grants and Other External Research Awards (funded)

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| 2025-2031 | National Science Foundation. "LTER: Georgia Coastal Ecosystems V" (Osenberg is one of 20 co-PIs; M. Alber is the lead PI; Osenberg is directly responsible for \$154,873). Total award: \$7,542,999. |
| 2024-2027 | Keck Foundation: "Deciphering coral regenerative biology to facilitate coral reef resilience". UGA PI with A Stier (lead PI, UCSB), R. Bay (co-PI, UC Davis), A. Seifert (Associate Investigator, U Kentucky). Total budget: \$1,300,000; sub to UGA: \$260,000 (no IDC). |
| 2023 | National Science Foundation: covid-supplement to "Dynamic Marine Landscapes: Feedbacks and spatial patterns of corals and coral-associated fishes and invertebrates" (PI): \$36,968. |
| 2020-2022 | Trees Atlanta (a contract to support an MS student). \$51,645. |
| 2019-2025 | National Science Foundation: "Collaborative Research: Dynamic Marine Landscapes: Feedbacks and spatial patterns of corals and their associated fishes" (Osenberg is PI on UGA portion; collaborating institutions: UCSB (AC Stier) and Tulane University (S McKinley). Total: \$1,400,000; UGA component: \$346,792. |
| 2018-2025 | National Science Foundation. "LTER: Georgia Coastal Ecosystems IV" (Osenberg is one of 20 co-PIs; M. Alber is the lead PI; Osenberg is directly responsible for \$145,245). Total award with supplements: \$7,186,097. |
| 2017-2021 | National Science Foundation: "Collaborative Research -- Meta-analysis: evaluation and improvement of an important synthetic tool" (Osenberg is PI on UGA portion, \$221,024; MSU is lead, JR Bence, PI, and SD Peacor co-PI). Total award: \$509,087. |
| 2016-2020 | Marsden Fund of the Royal Society of New Zealand: "Born at the right time? Disentangling the effects of birthdate and developmental trajectories on fitness, population dynamics, and the evolution of life-history strategies" (JS Shima, PI; S Swearer, S Alonzo, E Noonburg, CW Osenberg, Associate PIs). Total award to Victoria University Wellington: \$840,000 (NZ\$) |
| 2015-2016 | US Fish and Wildlife Service: "Spatially Explicit Demographic Models to Evaluate the Spatial and Temporal Pattern of Rehabilitation of Lake Sturgeon in the Niagara River and Eastern Lake Erie" (coPI; Seth Wenger, PI). \$43,701. |
| 2013-2017 | US Department of Energy: "Biogeochemical feedbacks to climate change: meta-analyses, data assimilation, and earth system model" (UGA PI; subaward through Northern Arizona University, Bruce Hungate PI). \$932,746 (UGA budget: \$245,667). |
| 2013-2014 | French Embassy: "Coral reef resilience to nutrient enrichment: the role of grazers and spatial context". \$9,692. (This is a Chateaubriand Fellowship that supports the dissertation research of Michael Gil). |
| 2011-2017 | National Science Foundation: "Spatial patterns of coral-vermetid interactions: short-term effects and long-term consequences" (PI; with Tom Frazer (co-PI) and Jeff Shima (key collaborator)). \$800,000. [due to Osenberg's transfer to UGA; we made Frazer PI and created a subaward to UGA in 2015] |
| 2008-2015 | National Science Foundation: "IGERT: Spatial ecology and evolution: Integrative quantitative training in biology, statistics and mathematics" (PI 2010-14; co-PI 2008-09 and 2014-15; with Ben Bolker, Mary Christman, Emilio Bruna, Maia Martcheva). \$2,876,455. |
| 2008-2012 | Partnership University Fund: "Ocean Bridges II: A Florida-France training and research cooperative in coral reef health, dynamics, and conservation" (PI, with Gustav Paulay; joint proposal with Suzanne Mills et al. at Ecole Pratique Hautes Etude in Perpignan, France. \$227,200 (50% to UF). |
| 2005-2008 | French American Cultural Exchange: "Oceanic bridges: A Florida-France training and research cooperative in coral reef conservation and biodiversity". French-American Fund for Academic Partnerships, managed by French American Cultural Exchange (PI with C. St. Mary and G. Paulay at UF and R. Galzin and B. Delesalle at EPHE, France). \$113,000 |

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| 2005 | French American Cultural Exchange: "Oceanic bridges: A Florida-France training and research cooperative in coral reef conservation and biodiversity". Awarded through the office of the French Ambassador to the US. (PI with C. St. Mary and G. Paulay). \$12,900 |
| 2005 | National Sea Grant: John A. Knauss Marine Policy Fellowship (awarded to Jacqueline Wilson; I'm technically the PI on this award, although Jackie wrote this fellowship proposal and it supports her post-doc in Washington DC). \$40,000 |
| 2003-2008 | National Science Foundation: "Cryptic density dependence: the effects of spatial, ontogenetic, and individual variation in reef fish" (PI, with B. Bolker and C. St. Mary as co-PI; J. Shima and M. Meekan as international collaborators). \$697,461. |
| 2000-2003 | Southwest Florida Water Management District: "Factors influencing the dynamics of <i>Vallisneria americana</i> and their effects on restoration of Kings Bay and other spring-fed systems" (with T. Frazer). \$162,574. |
| 2000-2003 | Environmental Protection Agency: "Effects of predators of different life-history stages on the population dynamics of <i>Hyperolius</i> treefrogs". \$32,554. (STAR tuition and research funds in support of dissertation research of James Vonesh). |
| 2000-2003 | Environmental Protection Agency: "Population dynamics of a coral reef fish: an empirical and modeling approach". \$30,354. (STAR tuition and research funds in support of dissertation research of Jacqueline Wilson). |
| 2000-2003 | National Sea Grant Program: "Fisheries habitat: a field assessment of the effects of artificial reefs and its role in fisheries management" (PI, with C. St. Mary and B. Bolker). \$294,088. |
| 2000 | Florida Sea Grant Program: "Pilot studies to assess the use of artificial reefs in marine ornamental fisheries" (PI, with C. St. Mary). \$6,000. |
| 2000-2001 | National Science Foundation: "Out of the frying pan and into the fire: assessing stage-specific predation in a complex life history". \$5,000 (dissertation research award for James Vonesh). |
| 1996-2000 | Minerals Management Service (Department of Interior): "Detecting ecological impacts: effects of taxonomic aggregation in the Before-After/Control-Impact Paired Series design." (PI, with S.J. Holbrook and M. Carr). \$155,714 (Osenberg/UF portion). |
| 1997 | National Science Foundation Supplements for Research Experiences for Undergraduates. \$4,850 (with C.J. Huckins) |
| 1996-1999 | National Science Foundation: "Collaborative Research: Species introductions as ecological experiments -- linking biogeographical pattern and ecological mechanisms". (coPI, with G.G. Mittelbach and C.J. Huckins). \$86,858 (Osenberg/UF portion) |
| 1996-1998 | NSF National Center for Ecological Analysis and Synthesis: "Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data". (PI; funding to hold 3 workshops and support 1 post-doctoral fellow at NCEAS). ~\$250,000 |
| 1996 | Florida Sea Grant Seminar Program. \$1,010 (PI; competitive program to support visits by marine scientists to Florida universities) |
| 1994-1995 | Minerals Management Service (Department of Interior): "Environmental effects of produced water: a BACIP field assessment" (PI with M Carr, S. Holbrook, and P. Raimondi). \$86,000 |
| 1994-1996 | Minerals Management Service (Department of Interior): "Environmental recovery following cessation of a produced water discharge" (PI with R. Schmitt). \$88,000 |
| 1994 | National Science Foundation Supplements for Research Experiences for Undergraduates. \$4,750. |
| 1993-1995 | University of California Toxic Substances Research and Teaching Program (Coastal Toxicology Component): "Assessing ecological impacts of human activities in aquatic environments". (PI) \$50,000 |
| 1992-1995 | National Science Foundation: "Collaborative Research: Stage-structured interactions in lake communities". (coPI with G.G. Mittelbach) \$106,000 (Osenberg/UCB portion) |
| 1992-1994 | Minerals Management Service (Department of Interior): "Spatial scale of produced water impacts as indicated by plume dynamics and biological field assays" (with S. MacIntyre and L. Washburn). \$92,000 |
| 1991 | National Science Foundation Supplements for Research Experiences Undergraduates (with G. G. Mittelbach). \$5,200 |

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| 1989-1994 | Minerals Management Service (Department of Interior): "Ecological effects of chronic exposure to produced water: a field test" (with S. J. Holbrook and R. J. Schmitt). \$320,000 |
| 1989-1992 | Minerals Management Service: "Effects of produced water on demographic rates: integration of individual responses with population consequences" (with R. J. Schmitt). \$145,000 |
| 1989-1992 | National Science Foundation: "Two-stage life-histories and species interactions: models and tests with sunfishes" (with G. G. Mittelbach). \$180,000 |
| 1989 | National Science Foundation Supplements for Research at Long-Term Ecological Research Sites (with G. G. Mittelbach and P. C. Wainwright). \$20,000 |
| 1984-1987 | National Science Foundation: "Body size and the interaction of competition and predation in a freshwater snail community" (dissertation research). \$8,000 |
| 1982 | American Museum of Natural History, Sigma Xi, USC Oceanographic Associates, and Michigan State University: "Causes and consequences of foraging specialization in <i>Oxyjulis californica</i> (Labridae)". \$3,000 |

Miscellaneous contracts

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| 2010-2013 | Springer-Verlag, Oecologia editorial office. \$107,393. |
| 2005-2010 | Springer-Verlag, Oecologia editorial office. \$163,038. |
| 2000-2005 | Springer-Verlag, Oecologia editorial office. \$104,105. |

Internal Awards, University of Florida (competitively funded through the Division of Sponsored Research)

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| 2009-2010 | Department of Biology Seed Grants (<i>Understanding gene flow in sessile, coral-associated invertebrates</i>), with Ed Braun. \$3,000 |
| 2003-2004 | Swisher Matching Assistantships (College of Natural Resources), with Tom Frazer (PI). \$6,000. |
| 2000-2001 | College of Liberal Arts and Sciences, UF (<i>The dynamics and management of coral reef fishes</i>). \$12,000 |
| 1998-1999 | College of Liberal Arts and Sciences (<i>Recruitment, post-settlement processes, and the dynamics of a tropical marine fish, Stegastes partitus</i>). \$12,000 |
| 1996-1997 | DSR-Research Development Award (<i>Population structure and the dynamics of aquatic systems</i>) (\$23,500) |
| 1996-1997 | DSR-D: Research Support Program for New Faculty (\$11,000) |
| 1996-1997 | DSR-B: 1996 Graduate Research Assistantship (~\$7,000) |

Publications (peer-reviewed unless noted with '*'; H=High school student, U=Undergraduate, G=Graduate student, or P=post-doc, associated with my lab or my projects)¹

1. Schmitt, RJ, CW Osenberg and MG Bercovitch. 1983. Mechanisms and consequences of shell fouling in the kelp snail, *Norrisia norrisi* (Sowerby) (Trochidae): indirect effects of octopus drilling. J. Exp. Mar. Biol. Ecol. 69:267-281.
2. Fugle, GN, SI Rothstein, CW Osenberg and MA McGinley. 1984. Signals of status in wintering white-crowned sparrows, *Zonotrichia leucophrys gambelii*. Anim. Behav. 32:86-93.

¹ There is tremendous variation in authorship policies among faculty and disciplines. Prior to 2012, my general policy was that authorship reflected the ranked order of contribution to a paper (or talk), although I sometimes deferred to the final slot in projects that students led. After 2012, I began adopting a policy in which I assumed "senior" (last) author position in papers that I co-authored and that came out of my lab's projects (e.g., that I supervised or that were products from grants I led). Furthermore, I often do not co-author papers generated by personnel working in my lab (even when supported by my grants), unless I contribute in a substantial way that goes beyond funding, mentoring, advising, and editing. I consider the input that I provide to be part of my job (and not a requirement for co-authorship). Thus, I have included papers that my students have generated based on work conducted in my lab (but on which I am not a co-author) in a separate section (below), so that my lab's overall productivity is reflected in my CV.

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131. Tomamichel^G, MM, KI Lowe^U, KMH Arnold^G, ME Frischer, BJ Irwin, CW Osenberg, RJ Hall, and JE Byers. 2025. Warmer is deadlier: A meta-analysis reveals increasing temperatures accentuate disease impacts on fisheries hosts. *Ecology Letters* (in press).
132. Song^P, C, SD Peacor, CW Osenberg, AA Briggs, JR Bence. 202x. Weighting is likely overweighted in ecological meta-analysis. (in revision).
133. Briggs^G, AA, J Freeze^U, CW Osenberg. 202x. Effects of macroalgal host species and patch size on ciguatoxic dinoflagellates in a Pacific coral reef. (in revision)
134. Briggs^G, AA, S McKinley, CW Osenberg. 202x. Microbes can affect the likelihood of regime shifts and alternative stable states in coral reefs. (in revision)
135. Stier, AC, CW. Osenberg, and TJ Chase. 202x. Fish services to corals: A review of how coral-associated fishes benefit corals. *Coral Reefs* (in review)

Other publications from my lab personnel²

136. Vonesh^G JR and O De la Cruz. 2002. Complex life cycles and density-dependence: Population-level consequences of early mortality in amphibians. *Oecologia* 133: 325 – 333.
137. Hale^G RE, CM St. Mary, and K Lindström. 2003. Parental responses to changes in costs and benefits along an environmental gradient. *Environmental Biology of Fishes* 67(2): 107-116.
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139. Wray GA, C Kitazawa, and BG Miner^G. 2004. Culture of echinoderm larvae through metamorphosis. Pages 75-86 In: *Development of Sea Urchins, Ascidians, and Other Invertebrate Deuterostomes: Experimental Approaches (Methods in Cell Biology, Volume 74)*, C.A. Ettensohn, G.M. Wessel, and G.A. Wray (eds). Academic Press, San Diego.
140. St. Mary CM, E Gordon^U, & RE Hale^G. 2004. Environmental effects on egg development and hatching success in *Jordanella floridae*, a species with parental care. *Journal of Fish Biology* 65: 760-768.
141. Quader S, K Isvaran, RE Hale^G, BG Miner^G, & NE Seavy. 2004. Nonlinear relationships and phylogenetic independent contrasts. *Journal of Evolutionary Biology* 17:709-715.
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146. Vonesh^G JR and BM Bolker. 2005. Compensatory larval responses shift trade-offs associated with predator-induced hatching in an African treefrog. *Ecology* 86(6): 1580-1591.
147. Vonesh^G, JR. 2005. Egg predation and predator-induced hatching plasticity in the African tree frog, *Hyperolius spinigularis*. *Oikos* 110: 241-252.
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149. Wilson^G, JA. 2005. Age class interactions in a marine goby, *Elacatinus prochilos*. *Journal of Experimental Marine Biology and Ecology* 327:144-156.
150. Knight^P TM, MW McCoy^G, JM Chase, KA McCoy and RD Holt. 2005. Trophic cascades across ecosystems. *Nature* 437: 880-883.
151. Edwards T, KA McCoy, T Barbeau, MW McCoy^G, JM Thro, and LJG Guillette Jr. 2006. Environmental context determines nitrate toxicity in Southern toad (*Bufo terrestris*) tadpoles. *Aquatic Toxicology* 78: 50-58.
152. Hale^G RE, and CM St. Mary. 2007. Nest tending increases mating success, sometimes – environmental effects on paternal care and mate choice in flagfish (*Jordanella floridae*). *Animal Behaviour* 74:577-588.

² See footnote above. By general policy, I do not put my name on papers generated by students in my lab. Thus, I've included this separate section to highlight papers published by my students (based on work they've done while in my lab and working under my supervision, mentorship, and grants) but on which I am not a co-author.

153. Gillooly JF, MW McCoy^G, and AP Allen. 2007. Effects of metabolic rate on protein evolution. *Biology Letters* 3:655–659.
154. McCoy^G MW., KA McCoy, and DJ Levey. 2007. Teaching Biodiversity to Students in Inner City and Under-resourced Schools. *The American Biology Teacher* 69:473-476.
155. McCoy^G KA, MW McCoy, AM Amick^U, LJG Guillette, and CM St. Mary. 2007. Phenotypic plasticity in gonad growth: a mechanism for phenotypic correlations between growth and reproduction. *Journal of Experimental Zoology: Part A Ecological Genetics and Physiology* 307A:637–646.
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157. Reitzel AM, and BG Miner^G. 2007. Reduced planktotrophy in larvae of *Clypeaster rosaceus* (Echinodermata, Echiniodea). *Marine Biology* 151: 1525-1534.
158. McCoy^G MW. 2007. Conspecific density determines the magnitude and character of predator induced phenotype. *Oecologia* 153:871–878.
159. McCoy^G MW, BM Bolker. 2008. Trait-mediated interactions: influence of prey size density and experience. *Journal of Animal Ecology* 77: 478-486.
160. Hale^G RE. 2008. Evidence that context-dependent mate choice for parental care mirrors benefits to offspring. *Animal Behaviour* 75:1283-1290.
161. Stier^G AC, MA Steele, and AJ Brooks. 2009. Coral reef fish use crown-of-thorns seastar as habitt. *Coral Reefs*. 28:227-227.
162. Wilson^G, JA, L Vigliola^P, and MG Meekan. 2009. The back-calculation of size and growth from otoliths: Validation and comparison of models at an individual level. *Journal of Experimental Marine Biology and Ecology* 368:9–21
163. McCoy^G MW, M Barfield, and RD Holt. 2009. Predator shadows: Complex life histories as generators of spatially patterned indirect interactions across ecosystems – *Oikos* 118: 87-100.
164. Geange^G SW and AC Stier^G 2009. Order of arrival affects competition in two reef fishes. *Ecology* 90 (10) 2868-2878.
165. Bolker BM, M Brooks, CJ Clark, SW Geange^G, JR Poulsen, H Stevens, and JS White^G 2009. Generalized linear mixed models: a practical guide for ecology and evolution. *Trends in Ecology and Evolution* 24 (3) 127-135.
166. Geange^G SW. 2010. Effects of larger heterospecifics and structural refuge on the survival of a coral reef fish, *Thalassoma hardwicke*. *Marine Ecology Progress Series* 407: 197-207.
167. Geange^G SW and AC Stier^G 2010. Charismatic microfauna alter cyanobacterial production via a trophic cascade. *Coral Reefs* 29: 393-397.
168. Geange^G SW and AC Stier^G 2010. Priority effects and habitat complexity affect the strength of competition. *Oecologia* 163 (1) 111-118.
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170. Heinlein JM, AC Stier^G, and MA Steele. 2010. Predators reduce abundance and species richness of coral reef fish recruits via non-selective predation. *Coral Reefs*. 29 (2): 527 - 532.
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172. Geange^G, SW, S Pledger, KC Burns, JS Shima. 2011. A unified analysis of niche overlap incorporating data of different types. *Methods in Ecology and Evolution*. 2:175-184. DOI: 10.1111/j.2041-210X.2010.00070.x

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174. Shantz AA, AC Stier^G, and JA Idjadi. 2011. Coral density and predation affect growth of a reef building coral. *Coral Reefs* 30: 363 - 367.
175. Barbier E, SD Hacker, C Kennedy, E Koch, AC Stier^G, and B Silliman. 2011. The value of estuarine and coastal ecosystem services. *Ecological Monographs* 81: 169-193.
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 - Featured in: *Science Daily*: <http://www.sciencedaily.com/releases/2012/03/120330164856.htm>
178. Prosper^G, O, N. Ruktanonchai^G, M. Martcheva. 2012. Assessing the role of spatial heterogeneity and human movement in malaria dynamics and control. *J. Theoretical Biology* 303:1-14. [a paper from the QSE3 IGERT workshop I co-led]
179. Stier^G, AC, SW Geange^G, BM Bolker. 2013. Predator density and competition modify the benefits of group formation in a shoaling reef fish. *Oikos* 122:171-178. doi: 10.1111/j.1600-0706.2012.20726.x (Editor's choice at *Oikos*).
180. Stier^G, AC, J.A.Idjadi, SW Geange^G, and JSS White^G. 2013. High mortality in a surgeonfish following an exceptional settlement event. *Pacific Science*. 67:533-538.
181. Geange^G, SW, JS Shima, and AC Stier^G. 2013. Competitive hierarchies among three species of juvenile coral reef fish. *Marine Ecology Progress Series* 472:239-248.
182. Carr LA, AC Stier^G, K Fietz, I Montero, AJ Gallagher, and JF Bruno. 2013. Illegal shark fishing in the Galapagos Marine Reserve. *Marine Policy* 39:317-321.
183. Stier^G, AC, S.W. Geange^G, and KM Hanson. 2013. Predator density and timing of arrival affect reef fish community assembly. *Ecology* 94:1057-1068.
184. Caughlin^G TT, N Ruktanonchai^G, MA Acevedo^G, KK Lopiano^G, O Prosper^G, NE Eagle, AJ Tatum. 2013. Place-based attributes predict community membership in a mobile phone communication network. *PLoS ONE* 8(2): e56057 (9 pages). doi:10.1371/journal.pone.0056057 [a paper from the QSE3 IGERT workshop I led]
185. Gil^G, M.A. 2013. Unity through nonlinearity: A unimodal coral-nutrient interaction. *Ecology* 94:1871–1877
186. Stier^G, AC and M Leray^G. 2013. Predators alter community organization of coral reef cryptofauna and reduce abundance of coral mutualists. *Coral Reefs* 33:181-191. doi: 10.1007/s00338-013-1077-2
187. Stier^G, AC, KM Hanson, SJ Holbrook, RJ Schmitt, and AJ Brooks. 2014. Predation and landscape characteristics independently affect reef fish community organization. *Ecology* 95:1294-1307.
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189. Gil^G, MA and JB Pfaller. 2016. Oceanic barnacles act as a foundation species on plastic debris: implications for marine dispersal. *Scientific Reports* 6, 19987. doi:10.1038/srep19987
190. Pfaller, JB and MA Gil^G. 2016. Sea turtle symbiosis facilitates social monogamy in oceanic crabs. *Biology Letters* 12: doi: 10.1098/rsbl.2016.0607

191. Gil^G, MA, S. Goldenberg, A Ly Thai Bach, SC Mills, J Claudet. 2016. Interactive effects of three pervasive marine stressors in a post-disturbance coral reef. *Coral Reefs* 35:1281-1293. doi:10.1007/s00338-016-1489-x
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193. Gil^G, MA, Z Emberts, H Jones, CM St. Mary. 2017. Social information on fear and food drives animal grouping and fitness. *The American Naturalist* 189:227-241 doi:10.1086.690055
194. Gil^G, MA, A Hein. 2017. Social interactions among grazing reef fish drive material flux in a coral reef ecosystem. *Proceedings of the National Academy of Sciences* 114:4703-4708 doi:10.1073/pnas.1615652114 [Gil and Hein are equal co-authors].
195. Sánchez, C and AL Brown^G. 2017. Creating our own community. *Science* 355: 1446-1446. [published in the "Working Life" section; editorial, but not peer reviewed].
196. Hamman^G, EA. 2018. Aggregation patterns of two corallivorous snails and consequences for coral dynamics. *Coral Reefs* 37:851-860. doi: 10.1007/s00338-018-1712-z
197. Hamman^G, E.A. 2019. Spatial distribution of damage affects the healing, growth, and morphology of coral. *Oecologia* 191:621-629.
198. Jacobs^G, GR, RF Thurow, JM Buffington, DJ Isaak, SJ Wenger. 2021. Climate, fire regime, geomorphology, and conspecifics influence the spatial distribution of chinook salmon redds. *Transactions of the American Fisheries Society* 150:8-23. doi: 10.1002/TAFS.10270.
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Presented Papers and Invited Symposia and Plenaries (presented by first author, unless indicated with "")**

1. Osenberg, C.W. 1983. Foraging specialization in a temperate marine fish: (*Oxyjulis californica*: Labridae). Midwest Ecology Conference, University of Illinois, Chicago, Illinois.
2. Osenberg, C.W. 1984. A comparison of foraging models that incorporate simultaneous encounters and distance related prey value. Ecological Society of America, Colorado State University, Fort Collins, Colorado.
3. Osenberg, C.W. and R. Moeller. 1985. Resource limitation in freshwater snails: the effects of timing of food augmentation. Midwest Ecology Conference, Michigan State University, Hickory Corners, Michigan.
4. Osenberg, C.W. 1986. Consequences of size-specific predation and food limitation to size-structured populations: an example from a freshwater snail community. Ecological Society of America, SUNY, Syracuse, New York.
5. Osenberg, C.W. 1987. Predation and food-limitation in a freshwater snail community. Ecological Society of America, Ohio State University, Columbus, Ohio.
6. Osenberg, C.W. and G.G. Mittelbach. 1988. Fish predation and littoral prey communities: patterns of mortality, body size and abundance. Ecological Society of America, University of California, Davis.
7. Osenberg, C.W. 1989. Trophic level limitation in lentic ecosystems. Symposium on *Structure and Management of Littoral Zone Communities*, held at North American Benthological Meetings, Guelph, Ontario, May 1989. (invited)
8. Mittelbach, G.G., C.W. Osenberg and P.C. Wainwright. 1989. Competitive release and correlated shifts in morphology, feeding efficiency, diet and growth rate by pumpkinseeds. Ecological Society of America, University of Toronto, Ontario, Canada.
9. Osenberg, C.W. and G.G. Mittelbach. 1989. Two-stage life histories and species interactions in sunfish. Davis Conference on Population Structure, University of California, Davis.

10. Herrlinger, T.J. and C.W. Osenberg. 1989. Demographic and behavioral responses of benthic marine organisms to produced water discharge: sensitive indicators and links to population dynamics. Third Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, San Francisco (poster).
11. Osenberg, C.W., R.J. Schmitt and S.J. Holbrook. 1989. An impact assessment design for detecting ecological effects of discharged produced water. Third Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, San Francisco (poster).
12. Osenberg, C.W., A. Stewart-Oaten and J.R. Bence. 1990. The analysis of environmental impact data resulting from the Before-After-Control-Impact-Paired (BACIP) design. Fourth Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Barbara (poster).
13. Osenberg, C.W., R.J. Schmitt and S.J. Holbrook. 1990. Differential ability to detect environmental impacts arising in ecological systems. Fourth Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Barbara (poster).
14. Schmitt, R.J. and C.W. Osenberg. 1990. Trophic interactions between herbivorous gastropods and algae: dynamical implications. Western Society of Naturalists, Monterey, California.
15. Osenberg, C.W. and G.G. Mittelbach. 1990. Two-stage life histories in sunfish: the trade-off between juvenile and adult performance. Western Society of Naturalists, Monterey, California.
16. Osenberg, C.W., R.J. Schmitt and S.J. Holbrook. 1991. Implications for the design of environmental assessment studies. Symposium on *The Marine Environment*. 100th Anniversary of the Southern California Academy of Sciences. University of Southern California, May 1991. (invited)
17. Osenberg, C.W., S.J. Holbrook and R.J. Schmitt. 1991. The power to detect unreplicated perturbations varies among physical, chemical and biological parameters. Ecological Society of America, San Antonio, Texas.
18. Osenberg, C.W., S.J. Holbrook, and R.J. Schmitt. 1991. The spatial scale of ecological effects associated with point-source discharges. Fifth Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, San Francisco, California. (poster)
19. Kaltenberg, A.T., C.W. Osenberg, and A. Martinez. 1991. Effects of pharyngeal morphology on feeding performance and prey selection in the sunfish, *Lepomis gibbosus*. Western Society of Naturalists, Santa Barbara, California.
20. Krause, P.R., C.W. Osenberg, R.J. Schmitt. 1992. Effects of produced water on early life stages of a sea urchin: gender-specific responses and delayed expression. International Produced Water Symposium, San Diego, California. (poster)
21. Osenberg, C.W., R.J. Schmitt, S.J. Holbrook and D. Canestro. 1992. Spatial scale of ecological effects associated with an open coast discharge of produced water. International Produced Water Symposium, San Diego, California.
22. Osenberg, C.W., R.J. Schmitt and S.J. Holbrook. 1992. Detection of environmental impacts: power analysis and spatial inference. Symposium on *The design of environmental impact assessment studies: Conceptual issues and application*, held at the Second International Temperate Reefs Symposium, Auckland, New Zealand, January 1992.
23. Wainwright, P.C., C.W. Osenberg, and G.G. Mittelbach. 1992. Evolution of feeding mechanisms in fishes: what changes first, behavior or morphology? Symposium on *Ecomorphology of Fishes*. Annual meeting of American Society of Ichthyologists and Herpetologists, Champaign-Urbana, Illinois, June 1992. (invited)
24. Mittelbach, G.G., and C.W. Osenberg. 1992. Stage-structured interactions in lakes: linking littoral and limnetic habitats. Symposium on *Population dynamics and species interactions: the importance of size- and stage-structure*. Annual meeting of Ecological Society of America, Honolulu, Hawaii, August 1992.
25. MacIntyre, S., L. Washburn, C. Osenberg. 1992. Spatial scale of produced water impacts: prediction of past exposure from density stratification and current velocities and duration of impacts in invertebrates. Sixth

- Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Barbara (poster).
26. Osenberg, C.W., M.H. Olson, and G.G. Mittelbach. 1992. Stage-structured interactions among littoral species: variation along a limnetic productivity gradient. *Gutshop '92 workshop on fish feeding ecology*, Orcas Island, Washington, November 1992.
 27. Mittelbach, G.G. and C.W. Osenberg. 1992. Using foraging theory to study trophic interactions. *Gutshop '92 workshop on fish feeding ecology*, Orcas Island, Washington, November 1992.
 28. Osenberg, C.W. 1993. Allometry and the incorporation of body size in models of predator-prey interactions. Symposium on *Ecology and evolution of feeding systems in lower vertebrates*. Annual meeting of American Society of Ichthyologists and Herpetologists, Austin, Texas, May 1993. (invited)
 29. Olson, M.H., G.G. Mittelbach, C.W. Osenberg. 1993. Resource-based mechanisms underlying competition between size-structured predator and prey. Annual meeting of the Ecological Society of America, Madison, Wisconsin, August 1993.
 30. Osenberg, C.W. and G.G. Mittelbach. 1993. The relative importance of resource limitation and predator limitation in food webs. International symposium on *Food webs: dynamics and structure*. Pingree Park, Colorado, September 1993. (invited)
 31. Osenberg, C.W., A. Sberze, and J. Dai. 1993. Assessing ecological impacts of human activities in aquatic environments. Seventh Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Cruz. November 1993 (poster).
 32. Stone, S.W., L. Washburn, S. MacIntyre, and C.W. Osenberg. 1993. Spatial scale of produced water impacts as indicated by plume dynamics and biological field assays. Seventh Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Cruz. November 1993 (poster).
 33. Stone, S.W., L. Washburn, S. MacIntyre, and C.W. Osenberg. 1994. Seasonal variations of a buoyant plume in a stratified environment. Ocean Sciences Meeting, San Diego, California. February 1994.
 34. Wainwright, P.C., C.W. Osenberg, G.G. Mittelbach, and G.V. Lauder. 1995. Population variation in the feeding mechanisms of pumpkinseed sunfish: evolution or phenotypic plasticity? Annual meeting of American Society of Ichthyologists and Herpetologists, Edmonton, Alberta, June 1995.
 35. Osenberg, C.W., O. Sarnelle, and S.D. Cooper. 1995. Meta-analysis, effect size, and biological models: examples from predator-prey studies. Annual meeting of the Ecological Society of America, Salt Lake City, Utah, August 1995.
 36. Huckins, C.J., C.W. Osenberg, G.G. Mittelbach. 1995. Mechanisms of competition between trophically specialized sister-species. Annual meeting of the Ecological Society of America, Salt Lake City, Utah, August 1995.
 37. Muller, E., C.W. Osenberg, R.J. Schmitt, and R.M. Nisbet. 1996. Modelling the toxic effects of produced water on blue and California mussels using dynamic energy budgets. Ninth Annual Research Symposium of the UC Toxic Substances Research and Teaching Program, University of California, Santa Cruz. March 1996 (poster).
 38. Osenberg, C.W. and G.G. Mittelbach. 1996. Competition among fishes: effects of ontogenetic habitat shifts and coupled resources. Annual meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, Louisiana, June 1996.
 39. Osenberg, C.W. and G.G. Mittelbach. 1996. Competition among fishes: effects of ontogenetic habitat shifts and coupled resources. Annual meeting of the Ecological Society of America, Providence, Rhode Island, August 1996.
 40. Osenberg, C.W., O. Sarnelle, S.D. Cooper and J. Downing. 1997. Comparative ecology: quantitative synthesis of experimental results. Annual meeting of the Ecological Society of America, Albuquerque, New Mexico, August 1997 (invited symposium).

41. Osenberg, C.W., R.J. Schmitt, S.J. Holbrook, C.M. St. Mary, and T.W.-M. Fan. Effects of produced water on mussel growth and production: application of the BACIPS design. 27th Benthological Ecology Meetings, Melbourne, Florida, March 1998.
42. Gough, L., K. Gross, C.W. Osenberg, and S. Collins. Fertilization effects on species density, richness, and primary productivity in herbaceous plant communities. Annual meeting of the Ecological Society of America, Baltimore, Maryland, August 1998.
43. Scheiner, S.M., S.B. Cox, M. Willig, G.G. Mittelbach, C.W. Osenberg, and M. Kaspari. Species diversity: scale effects and species-area curves. Annual meeting of the Ecological Society of America, Baltimore, Maryland, August 1998.
44. Lindberg, W.J., C.M. St. Mary, T.K. Frazer, and C.W. Osenberg. Marine reserves, complex life histories, and the meaning of essential fish habitat: the importance of closing the life cycle. The Second Mote International Symposium in Fisheries Ecology: *Essential Fish Habitat and Marine Reserves*, Sarasota, Florida, November 1998.
45. Downing, J., C.W. Osenberg, and O. Sarnelle. Marine phytoplankton growth limitation varies with N:P stoichiometry: a meta-analysis of nutrient enrichment experiments. Annual meeting of the American Society of Limnology and Oceanography, Santa Fe, NM, February 1999.
46. Osenberg, C.W., C.M. St. Mary, W.J. Lindberg, and T.K. Frazer. The application of ecological models to the design of marine reserves: what are the effects of population stage-structure and density dependence? Florida Ecological and Evolutionary Symposium, Achbold Biological Station, Lake Placid, FL, April 1999. (invited by graduate student organizers)
47. Osenberg, C.W., C.M. St. Mary, W.J. Lindberg, and T.K. Frazer. Marine reserves: implications of stage-structured fish populations and density dependence. Annual meeting of the Ecological Society of America, Spokane, Washington, August 1999.
48. Huckins, C.J.F., G.G. Mittelbach, C.W. Osenberg, and S. Walsh. Overwinter mortality and native distributions of two competing sunfish. Annual meeting of the Ecological Society of America, Spokane, Washington, August 1999.
49. Osenberg, C.W., C.M. St. Mary, J.A. Wilson, and W.J. Lindberg. A quantitative framework to evaluate the attraction-production controversy, with application to marine ornamental fisheries. Seventh International Conference on Artificial Reefs and Related Aquatic Habitats. Sanremo, Italy, October 1999.
50. Wilson, J.A., C.W. Osenberg, C.M. St. Mary, C.A. Watson, and W.J. Lindberg. Artificial reefs, the attraction-production issue, and density-dependence in marine ornamental fishes. First International Conference on Marine Ornamentals. Kailua - Kona, Hawaii, November 1999.
51. Schmitt, R.J., S.J. Holbrook, and C.W. Osenberg. Quantifying effects of multiple processes on local abundance: a cohort approach for open populations. Western Society of Naturalists. Monterey, California, November 1999.
52. Schmitt, R.J., S.J. Holbrook, and C.W. Osenberg. Quantifying effects of multiple processes on local abundance: a cohort approach for open populations. Fifth International Temperate Reef Conference. Capetown, South Africa, February 2000.
53. Osenberg, C.W. and J.A. Wilson. Habitat selection, habitat quality, and density-dependence in marine reef fishes. Ethology and Evolutionary Ecology of Fishes, Athens, Georgia, May 2000. (invited symposium presentation).
54. Wilson, J.A., C.W. Osenberg, C.M. St. Mary, C.A. Watson, and W.J. Lindberg. Artificial reefs, the attraction-production issue, and density-dependence in coral reef fishes. Annual meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico, June 2000.
55. Osenberg, C.W., S.J. Holbrook, R.J. Schmitt, C.M. St. Mary, and J.A. Wilson. Density-dependence in reef fish: a quantitative synthesis. Annual meeting of the Ecological Society of America, Snowbird, Utah, August 2000.

56. St. Mary, C.M., B.M. Bolker, C.W. Osenberg, R.J. Schmitt, and S.J. Holbrook. 2000. Management targets for marine ornamentals: can they work in "simple" systems? The Third Mote International Symposium in Fisheries Ecology: *Targets, Thresholds, & the Burden of Proof in Fisheries Management*, Sarasota, Florida, November 2000.
57. Osenberg, C.W., C.M. St. Mary, R.J. Schmitt, S.J. Holbrook, P.L. Chesson, and B.A. Byrne. 2001. Density-dependence in reef fish: a meta-analysis. Annual meeting of the Ecological Society of America, Madison, Wisconsin, August 2001.
58. Shima, J., C.W. Osenberg. 2001. Cryptic variation in habitat quality modifies the strength of density-dependent mortality of a reef fish. Annual meeting of the Ecological Society of America, Madison, Wisconsin, August 2001.
59. Hauxwell, J., C.W. Osenberg, T.K. Frazer. 2001. Effect of competing primary producers and herbivory on success of eelgrass (*Vallisneria americana*) transplants in Kings Bay, FL. Annual meeting of the Estuarine Research Federation, St. Petersburg, Florida, November 2001.
60. Nedimyer, K. C.A. Watson, C.W. Osenberg, C.M. St. Mary. 2001. Species Composition and Collection Efficiency Associated With Artificial and Natural Substrates. Second International Conference on Marine Ornamentals. Orlando, FL. November 2001.
61. Shima, J.S. and C.W. Osenberg. 2001. Cryptic density dependence in reef fish populations. 82nd Annual Meeting of the Western Society of Naturalists. Ventura, CA. November 2001.
62. Osenberg, C.W. 2001. Cryptic density dependence. Larry McEdward Memorial Symposium. Gainesville, FL. December 2001. (invited)
63. Wilson, J.A., C.W. Osenberg, C.M. St. Mary, C.A. Watson, and W.J. Lindberg. 2001. Artificial reefs, the attraction-production issue, and density-dependence in coral reef fishes. Larry McEdward Memorial Symposium. Gainesville, FL. December 2001. (invited)
64. Osenberg, C.W. and C.M. St. Mary. 2002. Marine reserves: a tentative and cautionary evaluation of a powerful tool. Annual meeting of the Florida Chapter of the American Fisheries Society. Brooksville, FL. February 2002 (invited).
65. Osenberg, C.W. 2002. Marine protected areas: a critique of current assessment approaches. International Workshop: *Restoring and Sustaining Diversity of Tropical Pacific Coral Reef Fish*. Mo'orea, French Polynesia. April 2002 (invited).
66. Osenberg, C.W. 2002. Density-dependence in reef fishes: results of a meta-analysis. International Workshop: *Restoring and Sustaining Diversity of Tropical Pacific Coral Reef Fish*. Mo'orea, French Polynesia. April 2002 (invited).
67. Osenberg, C.W., J. Hauxwell, T.K. Frazer. 2002. Effect of competition and herbivory on restoration of a native macrophyte (*Vallisneria americana*) in a spring-fed estuary. Annual meeting of the Ecological Society of America, Tucson, Arizona, August 2002.
68. Hauxwell, J., C.W. Osenberg(*), T.K. Frazer. 2002. Effect of competing primary producers and herbivory on success of transplants of a native macrophyte (*Vallisneria americana*) in a subtropical spring-fed estuary. Annual meeting of the American Fisheries Society. Baltimore, MD. August 2002 (invited).
69. Osenberg, C.W., C.M. St. Mary, and B. Bolker. 2002. Assessing the efficacy of ecosystem management and marine reserves: the need for new approaches. The Fourth Mote International Symposium in Fisheries Ecology: *Confronting Tradeoffs in the Ecosystem Approach to Fisheries Management*, Sarasota, Florida, November 2002.
70. McCoy, M., C.W. Osenberg, B.M. Bolker, B. Miner, J.R. Vonesh. 2003. Quantifying morphological plasticity in tadpoles. Annual meeting of the American Society of Ichthyologists and Herpetologists, Manaus, Brazil, June, 2003.
71. Lindström, K., C.M. St. Mary, C.W. Gunnels, R.E. Hale, C.W. Osenberg, S. Stevens, J. Vonesh, J.A. Wilson. 2003. Reproductive investment in relation to predation risk in a live bearing fish. Fisheries Society of the British Isles International Symposium: Fish as Models of Behaviour, Norwich, UK, July 2003

72. McCoy, M., C.W. Osenberg, B.M. Bolker, B. Miner, J.R. Vonesh. 2003. Quantifying phenotypic plasticity in ecological experiments. Annual meeting of the Ecological Society of America, Savannah, Georgia, August 2003.
73. Vonesh, J.R., C.W. Osenberg, and B.M. Bolker. 2003. Multi-predator effects across life-history stages: non-additivity of egg- and larval-stage predation in an African treefrog. Annual meeting of the Ecological Society of America, Savannah, Georgia, August 2003.
74. Osenberg, C.W., J.S. Shima, C.M. St. Mary. 2004. Density-dependence and fish recruitment responses to changing habitat quality. 10th International Coral Reef Symposium. Okinawa, Japan, July 2004 (invited)
75. Osenberg, C.W., J.S. Shima, C.M. St. Mary. 2004. Cryptic density-dependence: implications and sources of variation in coral reef fish. Annual meeting of the Ecological Society of America, Portland, Oregon, August 2004.
76. Chockley, B., C.M. St. Mary, and C.W. Osenberg. 2004. Identifying population sinks in the upper Florida Keys: a demographic modeling approach. Annual meeting of the Ecological Society of America, Portland, Oregon, August 2004.
77. Saindon, DD, TK Frazer, CW Osenberg. 2004. Quantifying the Effects of Nutrient Reduction on Growth Rates of Phytoplankton in Kings Bay, Florida. Ecosystem Restoration Conference. December 2004.
78. Shima, J.S. and C.W. Osenberg. 2004. Changing reef communities: Implications for density dependence and the fate of reef fish populations. Presented at the *New Zealand Marine Science Society*, Dunedin, New Zealand.
79. McCoy, M., B.M. Bolker, and C.W. Osenberg,. 2005. Tradeoffs in phenotypic plasticity: consequences of induced defenses, prey size and predator constraints. Annual meeting of the Ecological Society of America, Montreal, Quebec, August 2005.
80. Saindon, DD, TK Frazer, CW Osenberg. 2005. Quantifying the Effects of Nutrient Reduction on Growth Rates of Phytoplankton in Kings Bay, Florida. Estuarine Research Federation. Norfolk, Virginia. October 2005.
81. Osenberg, CW, BM Bolker and JS Shima. 2006. Estimating demographic rates, density-dependence, and site quality in monitoring studies: spatiotemporal patterns in a reef fish. Annual meeting of the Ecological Society of America, Memphis TN, August 2006 (invited – abstract accepted, but I had to cancel due to family medical emergency).
82. Lison de Loma, T and CW Osenberg. 2006. Assessing the impact of MPAs in Moorea. International workshop: Tropical Island Ecosystems and Sustainable Development, Moorea, French Polynesia. December 2006 (invited).
83. Vonesh, JR, JC Buck, CW Osenberg. 2007. Pesticide alters habitat selection in aquatic organisms: Consequences for regional recruitment. USGS Workshop: “Understanding agriculture’s effects on amphibians and reptiles in a changing world”. February 2007. St. Louis, MO (poster).
84. Vonesh, JR, L. Blaustein, WJ Resetarits Jr., B Peckarsky, CW Osenberg, B Luttbeg. 2007. Predator-induced shifts in oviposition site selection in amphibians: a meta-analysis and conceptual model of consequences for regional recruitment. Annual meeting of the American Society of Ichthyologists and Herpetologists, St. Louis, MO. June 2007
85. Vonesh, JR, JC Buck, CW Osenberg. 2007. Pesticide alters habitat selection in aquatic organisms: Consequences for regional recruitment. Annual meeting of the American Society of Ichthyologists and Herpetologists, St. Louis, MO. June 2007 (poster).
86. Vonesh, JR, L. Blaustein, B Luttbeg, CW Osenberg, B Peckarsky, WJ Resetarits Jr. 2007. Predator-induced shifts in oviposition and colonization of aquatic habitats: a meta-analysis and conceptual model of consequences for regional recruitment. Annual meeting of the Ecology Society of America, San Jose, CA. August 2007.
87. Osenberg, CW, JS Shima, AC Stier. 2007. Vermetid snails reduce growth and survival of corals and shift coral species composition. Annual meeting of the Ecology Society of America, San Jose, CA. August 2007.

88. Shima JS, CW Osenberg, CM St. Mary. 2007. Quantifying habitat quality in a heterogeneous landscape: recruitment of a reef fish. Annual meeting of the Ecology Society of America, San Jose, CA. August 2007.
89. Vance-Chalcraft, HD, JA Rosenheim, JR Vonesh, CW Osenberg, A Sih. The influence of intraguild predation on prey suppression and prey release: A meta-analysis. Annual meeting of the Ecology Society of America, San Jose, CA. August 2007.
90. Claudet J. et al (30 co-authors). 2007. Regional ecological effects of European marine protected areas: a meta-analytical approach. European symposium on marine protected areas. Murcia, Spain. September 2007
91. Emmanuelli, E, J Ferraris, T Lison de Loma, CW Osenberg, R Galzin. 2007. Assessing the initial state of fish assemblages to adapt monitoring protocol for managers in a network of coral reef marine protected areas: the example of Moorea (French Polynesia). European symposium on marine protected areas. Murcia, Spain. September 2007.
92. White, JS, CW Osenberg, and JL O'Donnell. 2007. Marine ecosystem engineer alters coral abundance. NSF Fellows Research Day, University of Florida, Gainesville, FL. September 2007.
93. White, JS, CW Osenberg, and JL O'Donnell. 2007. Marine ecosystem engineer alters coral abundance. CLAS Capital Campaign, University of Florida, Gainesville, FL. September 2007.
94. Stier, AC, CW Osenberg. 2007. Settlement shadows. Western Society of Naturalists. Ventura, CA. November 2007.
95. White, JS, CW Osenberg, and JL O'Donnell. 2007. Indirect effects of a marine ecosystem engineer alter coral habitat composition. Western Society of Naturalists. Ventura, CA. November 2007.
96. Osenberg, CW, JS Shima, AC Stier, 2008. Strong interactions from hidden species: vermetids snails have large deleterious effects on corals. 11th International Coral Reef Symposium. Ft. Lauderdale, FL. July 2008.
97. Stier, AC and CW Osenberg. 2008. Habitat competes for fish larvae: increased fish production despite settlement redirection. 11th International Coral Reef Symposium. Ft. Lauderdale, FL. July 2008.
98. Bolker, BM, CW Osenberg, JS Shima. 2008. A Markov chain Monte Carlo technique to analyze the growth, recruitment, and survivorship of unmarked individuals. Annual meeting of the Ecology Society of America, Milwaukee, WI. August 2008.
99. Trager, MD, S Bhotika, JA Hostetler, GV Andrade, MA Rodriguez-Cabal, CS McKeon, CW Osenberg. 2008. Ant protection and plant reproduction: a meta-analysis of mutualism strength and its ecological correlates. Annual meeting of the Ecology Society of America, Milwaukee, WI. August 2008.
100. Osenberg, CW. 2008. Habitat quality and spatial ecology: linking patch choice, density-dependence, and restoration. EURECO-GFOE 2008 (joint meeting of the European Ecological Federation and the Ecological Society of Germany, Austria and Switzerland). Leipzig, Germany. September 2008. Invited plenary talk.
101. Hartman, CD, JS White, and CW Osenberg. 2009. Effect of farmerfish on vermetid gastropods and their possible role in sediment dynamics. 1st Annual UF Marine Biology Meeting. Whitney Marine Lab, Florida. January 2009.
102. Chaffee, C, C Warren, E Braun, C Osenberg. 2009. Small things matter: differences in bacterial communities provide insights into coral interactions with vermetids. 11th Pacific Science Inter-Congress. Tahiti, French Polynesia. March 2009.
103. Claudet, J, CW Osenberg and 19 others. 2009. Marine reserves: fish life history and ecological traits matter. International Marine Conservation Congress. Washington DC. May 2009. (invited)
104. Lison de Loma, T, CW Osenberg, Y. Chancerelle, and AJ Brooks. 2009. Assessing the impact of marine protected areas in Moorea (French Polynesia): design and preliminary results. International Marine Conservation Congress. Washington DC. May 2009.
105. Chaffee CL, EL Braun, CW Osenberg. 2009. Rapid Microsatellite Development in Organisms without Sequenced Genomes using 454 Sequencing. Florida Genetics 2009. Gainesville, Florida, October 2009.

106. Phillips, NE, JS Shima and CW Osenberg. 2010. Reproductive and larval ecology of the tropical Vermetid gastropod, *Dendropoma maximum*. Annual meeting of the Society of Integrative and Comparative Biology. Seattle, WA, January 2010.
107. Bohrmann, TF, M Brooks, A Hein, J Luchetti, FR Stevens, B Bolker, M Christman, C Osenberg. 2010. Modeling ephemeral pond dynamics on the Lake Wales Ridge, Florida. UF Water Institute Symposium. Gainesville, FL. February 2010. (poster)
108. Zhang G, BM Bolker, EM Bruna, MC Christman, K Kitajima, MN Martcheva, CW Osenberg, J Southworth. 2010. No boundaries: preparing tomorrow's leading scientists by transcending traditional disciplinary borders with the Integrative Graduate Education and Research Traineeship Program. American Educational Research Association (annual conference). Denver, CO. May 2010. (poster)
109. Bohrmann, TF, M Brooks, A Hein, J Luchetti, FR Stevens, B Bolker, M Christman, C Osenberg. 2010. Modelling ephemeral pond dynamics on the Lake Wales Ridge, Florida. QSE3 IGERT Annual Symposium; Gainesville, FL. May 2010.
110. Chaffee, CL, EL Braun, CW Osenberg. 2010. Molecular phylogeny provides insights into evolution of the Vermetidae. Evolution 2010. Portland, OR. June 2010.
111. van Groenigen, KJ, CW Osenberg, BA Hungate. 2010. Soil emissions of potent greenhouse gases under elevated CO₂: a meta-analysis. American Geophysical Union (annual meeting). San Francisco, CA. December 2010 (poster).
112. Langebrake J, L Riotte-Lambert, CW Osenberg, P De Leenheer. 2011. Differential movement and movement bias models for marine protected areas. UF Marine Biology Symposium. Whitney Laboratory, St. Augustine, FL. January 2011.
113. Osenberg, CW, JS Shima, SL Miller, and AC Stier. Assessing effects of marine protected areas: confounding in space and possible solutions. 2nd International Marine Conservation Congress. Victoria, BC, Canada. May 2011. (invited)
114. Langebrake J, L Riotte-Lambert, CW Osenberg, P De Leenheer. 2011. Differential movement and movement bias models for marine protected areas. Annual meeting of the Ecology Society of America, Austin, TX. August 2011.
115. Hungate, BA, KJ van Groenigen, CW Osenberg. 2011. Soil C turnover under elevated CO₂: an integrative meta-analytic approach. Wageningen Conference on Applied Soil Science. Wageningen, Netherlands. September 2011.
116. van Groenigen, KJ, CW Osenberg, BA Hungate. 2011. Elevated CO₂ stimulates soil emissions of potent greenhouse gases and turnover of soil C American Geophysical Union (annual meeting). San Francisco, CA. December 2011. (invited)
117. Jiao, J, CW Osenberg, J Langebrake, L Riotte-Lambert. 2013. Differential movement of harvested organisms affects predicted responses to marine protected areas. Benthic Ecology Meetings, Savannah, GA. March 2013.
118. Zill, J, M Gil, CW Osenberg. 2013. Can 'Spider-Snail' and 'The Sandman' impose synergistic evil forces on our hero, *Porites* coral? Benthic Ecology Meetings, Savannah, GA. March 2013.
119. Brooks, M, T Bohrmann, F Stevens, A Hein, M Christman, C Osenberg, and B Bolker. 2013. Predicting temporally autocorrelated pond depths with irregular time series data. Annual meeting of the Statistical Society of Canada, Edmonton, Alberta, Canada. May 2013. (invited)
120. Hamman, EA, CW Osenberg, SA McKinley, AC Stier. 2013. Spatial patterns of symbionts and hosts arising from propagule redirection. Annual meeting of the Ecology Society of America, Minneapolis, MN. August 2013.
121. Bolker, BM, AC Stier, CW Osenberg. 2013. Disentangling sampling effects from ecological process in beta diversity analysis. Annual meeting of the Ecology Society of America, Minneapolis, MN. August 2013.
122. Osenberg, CW. 2013. Marine Protected Areas: Theory and Application. Annual meeting of the Ecology Society of America, Minneapolis, MN. August 2013. (invited)

123. Osenberg, CW. 2013. Synthesis and integration: a 30-year journey from experimental ponds to theoretical blackboards. A conference celebrating 50 years of aquatic research at the Kellogg Biological Station. Hickory Corners, MI. October 18-20, 2013. (invited)
124. Brown, AL, CW Osenberg. 2014. Vermetid snails: coral-algal modifiers. North Florida Marine Science Symposium, St. Augustine, FL. January 16-17, 2014.
125. Jacobson, LM, C Fuchs, J Zill, M Farrell, M Gil, AL Brown, EA Hamman, CW Osenberg. 2014. The decoupling of tissue and skeletal production of corals in response to vermetid gastropods. North Florida Marine Science Symposium, St. Augustine, FL. January 16-17, 2014.
126. Hamman, EA, CW Osenberg, SA McKinley, AC Stier. 2014. Spatial patterns of coral occupants arising from propagule redirection. North Florida Marine Science Symposium, St. Augustine, FL. January 16-17, 2014.
127. Jiao, J, S Pilyugin, CW Osenberg. 2014. Mobility influences trophic interactions in marine protected areas. North Florida Marine Science Symposium, St. Augustine, FL. January 16-17, 2014.
128. Brown, AL, CW Osenberg. 2014. Modification of coral-algal interaction by vermetid snails. Benthic Ecology Meetings. Jacksonville, FL. March 19-22, 2014.
129. Jacobson, LM, C Fuchs, J Zill, M Farrell, M Gil, AL Brown, EA Hamman, CW Osenberg. 2014. The decoupling of tissue and skeletal production of corals in response to vermetid gastropods. Benthic Ecology Meetings. Jacksonville, FL. March 19-22, 2014.
130. Hamman, EA, CW Osenberg, SA McKinley, AC Stier. 2014. Spatial patterns of coral occupants arising from propagule redirection. Benthic Ecology Meetings. Jacksonville, FL. March 19-22, 2014.
131. Jiao, J, S Pilyugin, CW Osenberg. 2014. Mobility influences trophic interactions in marine protected areas. Benthic Ecology Meetings. Jacksonville, FL. March 19-22, 2014.
132. Farrell, M, L Jacobson, E Hamman, CW Osenberg. 2015. Diel partitioning of the effects of vermetid gastropods on coral growth. Florida Undergraduate Research Conference. Daytona Beach, FL. February 2015.
133. Farrell, M, L Jacobson, E Hamman, CW Osenberg. 2015. Diel partitioning of the effects of vermetid gastropods on coral growth. University of Florida Undergraduate Research Symposium. Gainesville FL, March 2015.
134. Hungate, BA, KJ van Groenigen, CW Osenberg, N van Gestel, Long-term ecosystem experiments, data assimilation, and meta-analysis. Annual meeting of the American Geophysical Union. San Francisco CA, December 2015.
135. van Groenigen, KJ, N van Gestel, J Xia, CW Osenberg, Y Luo, Hungate, BA. Informing soil carbon models with data from global change experiments: challenges and opportunities. Annual meeting of the American Geophysical Union. San Francisco CA, December 2015.
136. Brown, AL and CW Osenberg. Your history affects your future: variation in response of corals to vermetid gastropods. 45th Annual Benthic Ecology Meeting, Portland, ME. March 2016.
137. Atkins, R and CW Osenberg. Causes and consequences of intraspecific variation within salt marsh snail populations across space and time. 45th Annual Benthic Ecology Meeting, Portland, ME. March 2016.
138. Osenberg, CW, EA Hamman, SA McKinley, AC Stier. Spatial patterns of symbionts and corals arising from propagule redirection. 13th International Coral Reef Symposium. Honolulu, HI, June 2016.
139. Shima, JS, CW Osenberg, SE Swearer, EG Noonburg, SH Alonzo. Are successful reef fish simply born 'lucky' or do they play their cards well? 13th International Coral Reef Symposium. Honolulu, HI, June 2016.
140. Brown, AL, CW Osenberg. Vermetid gastropods and algae reduce coral growth via changes in the physio-chemical environment and microbiome. 13th International Coral Reef Symposium. Honolulu, HI, June 2016.

141. Jiao, J, S Pilyugin, MA Gil, CW Osenberg. Mobility determines consumer-resource interactions across space and time. Gordon Research Conference: Unifying ecology across scales. University of New England, Biddeford, ME. July 2016.
142. Atkins, R, and CW Osenberg. Causes and consequences of intraspecific variation within consumer snail populations in Southeastern US salt marshes. Gordon Research Conference: Unifying ecology across scales. Portland, ME. July 2016
143. Hamman, EA, SA McKinley, AC Stier, CW Osenberg. Biogenic habitat, propagule redirection and patch occupants create spatial patterns. Annual meeting of the Ecology Society of America, Ft. Lauderdale, FL. August 2016.
144. Brown, AL and CW Osenberg. Your history affects your future: variation in response of corals to vermetid gastropod, *Cerastium maximum*. Annual meeting of the Ecology Society of America, Ft. Lauderdale, FL. August 2016.
145. Jiao, J, S Pilyugin, MA Gil, CW Osenberg. Mobility affects consumer-resource interactions across space and time. Annual meeting of the Ecology Society of America, Ft. Lauderdale, FL. August 2016.
146. van Groenigen, KJ, CW Osenberg, Y Carrillo, FA Dijkstra, J Heath, M Nie, E Pendall, R Phillips, BA Hungate. Faster turnover of new soil carbon inputs under increased atmospheric CO₂. Annual meeting of the American Geophysical Union. San Francisco CA, December 2016.
147. Zacharias, M, AL Brown, CW Osenberg. Long-term population dynamics pre-die off of the vermetid gastropod, *Cerastium maximum*, in Mo'orea, French Polynesia. Graduate Student Symposium (Odum School of Ecology), Athens, GA. January 2017. [poster]
148. van Groenigen, KJ, CW Osenberg, Y Carrillo, FA Dijkstra, J Heath, M Nie, E Pendall, R Phillips, BA Hungate. Turnover of new soil carbon inputs under increased atmospheric CO₂: synthesizing the isotopic evidence. European Geosciences Union General Assembly 2017. Vienna, Austria, April 2017.
149. Atkins, RL, CW Osenberg. Spatial variability in a salt marsh consumer. 46th Annual Benthic Ecology Meeting. Myrtle Beach, SC. April 2017.
150. Brown, AL, CW Osenberg. Interaction modifications on coral reefs via changes in the physio-chemical environment and microbiome by a mucus net-producing gastropod. 46th Annual Benthic Ecology Meeting. Myrtle Beach, SC. April 2017.
151. Zacharias, M, AL Brown, CW Osenberg. Long-term population dynamics pre-die off of the vermetid gastropod, *Cerastium maximum*, in Mo'orea, French Polynesia. CURO Symposium. Athens, GA. April 2017.
152. Rasheed, H, R Atkins, CW Osenberg. Incorporating individual consumer physiology into our current understanding of *Littoraria-Spartina* interactions within southeaster US salt marshes. CURO Symposium. Athens, GA. April 2017. [poster]
153. Shima, JS, EG Noonburg, SE Swearer, SH Alonzo, and CW Osenberg. Born at the right time: can coral reef fish larvae compensate for an inauspicious birthdate? Joint meeting of the 35th International Ethological Conference (IEC) and the 2017 Summer Meeting of the Association for the Study of Animal Behaviour. Lisbon, Portugal. August 2017.
154. Hamman, EA, P Pappalardo, JR Bence, S Peacor, CW Osenberg. Bias in ecological meta-analyses. Annual meeting of the Ecology Society of America, Portland OR. August 2017.
155. Pappalardo, P, K Ogle, EA Hamman, JR Bence, CW Osenberg. Comparing traditional and Bayesian approaches to ecological meta-analyses. Annual meeting of the Ecology Society of America. Portland OR. August 2017.
156. Briggs, AA and CW Osenberg. Ciguatoxic dinoflagellate densities and the effects of algal biomass and species composition in a Pacific coral reef. Indo-Pacific Fish Conference. Tahiti, French Polynesia. October 2017.

157. Shima, JS, EG Noonburg, SE Swearer, SH Alonzo, and CW Osenberg. Born at the right time: can coral reef fish larvae compensate for an inauspicious birthdate? Annual meeting of the Western Society of Naturalists. Pasadena, CA. November 2017.
158. van Gestel, N, Z Shi, KJ van Groenigen, Y Luo, CW Osenberg, JS Dukes, L Andresen, A Michelsen, EA Schuur, B Hungate. Warming accelerates terrestrial carbon cycling without affecting storage. Annual meeting of the American Geophysical Union. New Orleans LA, December 2017.
159. Osenberg, CW. Population and Community Ecology. 50:10 – Reunion and Symposium: the past, present and future of ecology. Athens, GA January 2018. (invited)
160. Clancy, K, R Atkins, CW Osenberg. Physiological responses of the marsh periwinkle (*Littoraria irrorata*) to thermal stress. Odum School of Ecology Graduate Student Symposium, Athens, GA. February, 2018. [poster]
161. Rasheed, HK, R Atkins, CW Osenberg. Incorporating individual consumer physiology into our current understanding of *Littoraria-Spartina* interactions within southeastern US salt marshes. Odum School of Ecology Graduate Student Symposium, Athens, GA. February, 2018. [poster]
162. Atkins, RL, CW Osenberg. Incorporating intraspecific variation and metabolic theory into our understanding of consumer-plant interactions. 47th Annual Benthic Ecology Meeting. Corpus Christi, TX. March 2018.
163. Clancy, K, RL Atkins, CW Osenberg. Does the physiological response to temperature depend on body mass? 47th Annual Benthic Ecology Meeting. Corpus Christi, TX. March 2018. [poster]
164. Ogle, K et al. (13 co-authors). Elevated CO₂ indirectly stimulates N-fixation rates via its impact on legume biomass: a Bayesian meta-analysis. European Geoscience Union General Assembly 2018. Vienna, Austria, April 2018.
165. Atkins, R., K Clancy, CW Osenberg. Quantifying variation in thermal performance curves within a species of salt marsh snail as a function of body size and latitude. Gordon Research Conference: Unifying Ecology Across Scales, Biddeford, ME. July 2018. [poster]
166. Atkins, R, CW Osenberg. Consumer effects within and across southeastern US salt marshes. LTER All Scientists' Meeting, Pacific Grove, CA. October 2018 [poster]
167. Atkins, RL and CW Osenberg. Consumer effects within and across southeastern US salt marshes. Annual symposium of the GCE-LTER program. Athens, GA. January 2019. [poster]
168. Atkins, RL, RD Harris, CW Osenberg. GCE in 3D: microclimate remote sensing through biomimics. Annual symposium of the GCE-LTER program. Athens, GA. January 2019. [poster]
169. Hawkins, RL Atkins, CW Osenberg. Latitudinal and elevational patterns in size, abundance, micro-habitat distributions of the salt marsh periwinkle, *Littoraria irrorata*, in US Atlantic coast salt marshes. Annual symposium of the GCE-LTER program. Athens, GA. January 2019. [poster]
170. Atkins, R, and CW Osenberg. Comparing “tipping points” in consumer effects across a latitudinal gradient. Odum School of Ecology Graduate Student Symposium, Athens, GA. January, 2019.
171. Ellis, W, R Atkins, and CW Osenberg. Feeding rate as a function of body size, temperature, and site in a species of littorinid snail. Odum School of Ecology Graduate Student Symposium, Athens, GA. January, 2019. [poster; Will was a Cedar Shoals High School student working our lab]
172. Osenberg, CW. Effects of oil on marsh ecosystems: an evaluation of approaches and future recommendations. 2019 Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, LA. February 2019. (invited)
173. Brown, AL, J Wares, CW Osenberg. Extended phenotypes on coral reefs: cryptic variation and species interactions. Annual meeting of the American Society of Limnology and Oceanography. February 2019. Puerto Rico.
174. Primo, A, JN Pruitt, CW Osenberg, AC Stier. 2019. Intraspecific variation in aggression drives variation in a marine symbiosis. Annual meeting of the Western Society of Naturalists. Ensenada, Mexico. Nov 2019. [poster]

175. Atkins, RL, J Morton, and CW Osenberg. Quantifying size-structured predation within PREDEX using tethered marsh snails. Annual symposium of the GCE-LTER program. Athens, GA. January 2020. [poster]
176. Atkins, RL, RD Harris, CW Osenberg. GCE in 3D: microclimate remote sensing through biomimics. Annual symposium of the GCE-LTER program. Athens, GA. January 2020. [poster]
177. Sycamore, J, R Atkins, and CW Osenberg. Quantifying patterns in predation across southeastern US salt marshes. Odum School of Ecology Graduate Student Symposium, Athens, GA. January, 2020. [poster]
178. Duncan, J, R Atkins, CW Osenberg. Monitoring biologically relevant temperature profiles of three salt marsh invertebrates using biomimetic sensors. CURO Symposium, Athens, GA. April 2020. [poster]
179. Ellis, W, R Atkins, CW Osenberg. Spatial and temporal trends in the body size of an intertidal snail. CURO Research Symposium, Athens, GA. April 2020. [poster]
180. Ellis, WT, RL Atkins, CW Osenberg. Spatial and temporal trends in the body size of an intertidal snail. Western Society of Naturalists. Nov 2020. (on-line poster).
181. Atkins, RL, WT Ellis, K Clancy, CW Osenberg. Quantifying intraspecific variation in thermal performance traits of the salt marsh gastropod *Littoraria irrorata*. Western Society of Naturalists. Nov 2020. (on-line talk).
182. Briggs, AA, AL Brown, CW Osenberg. Local vs. site-level effects of algae on coral microbial communities. Western Society of Naturalists. Nov 2020. (on-line talk).
183. Galvan, J, J Curtis, A Primo, CW Osenberg, AC Stier. Photogrammetry-based measurements offer increased resolution in understanding coral-symbiont relationships. Western Society of Naturalists. Nov 2020. (on-line poster).
184. Briggs, AA, AL Brown, CW Osenberg. Local vs. site-level effects of algae on coral microbial communities. Odum School of Ecology Graduate Student Symposium, Athens, GA. February, 2021.
185. Working, C, VO Ezenwa, R Holdo, CW Osenberg. Host and environment predict nematode development across temperatures. Odum School of Ecology Graduate Student Symposium, Athens, GA. February, 2021.
186. Shima, J, S Swearer, C Osenberg, S Alonzo, E Noonburg. Reproductive phenology and its implications for larval growth, survival, dispersal, and connectivity – OR – what doesn't kill you make you stronger. 14th International Coral Reef Symposium. Virtual (Bremen, Germany). July 2021
187. Hamman, EA, CW Osenberg, AC Stier, and SA McKinley. The role of coral neighbors on coral populations and spatial patterns. 14th International Coral Reef Symposium. Virtual (Bremen, Germany). July 2021.
188. Brown, AL, J Wares, E Hamman, J Shima, C Osenberg. Extended phenotypes on coral reefs: cryptic variation and species interactions. 14th International Coral Reef Symposium. Virtual (Bremen, Germany). July 2021.
189. Cryan, DM, NH Low, SY Litvin, CW Osenberg, F Micheli. The trophic ecology of a ubiquitous kelp forest echinoderm, the bat star (*Patiria miniata*). Annual meeting of the Western Society of Naturalists. Virtual. November 2021.
190. Freeze, JG, AA Briggs, CW Osenberg. The effects of local and site-wide macroalgae cover on ciguatoxic dinoflagellate densities. CURO Symposium, Athens, GA. April 2022. [poster]
191. Cryan, DM, CW Osenberg. Cleaning mutualisms alter local herbivory rates on coral reefs. 50th Annual Benthic Ecology Meeting. Portsmouth, NH. March 2022.
192. Osenberg, CW, AA Briggs, S Chao, SD Peacor, JR Bence. Effect sizes in ecological meta-analyses: where we started, where we are, and where we still need to go. Annual meeting of the Ecology Society of America. Montreal, Canada. August 2022. (invited)
193. Peacor, SD, C Song, AA Briggs, EA Hamman, CW Osenberg, JR Bence. Ecological meta-analysis is frequently wrong: quantifying the large and pervasive problem of non-independence. Annual meeting of the Ecology Society of America. Montreal, Canada. August 2022. (invited)

194. Pappalardo, P, C Song, B Hungate, CW Osenberg. Meta-review of the quality of ecological meta-analyses. Annual meeting of the Ecology Society of America. Montreal, Canada. August 2022. (invited)
195. Song, C, SD Peacor, CW Osenberg, AA Briggs, JR Bence. Evaluating the precision gain from weighting in ecological meta-analyses. Annual meeting of the Ecology Society of America. Montreal, Canada. August 2022. (poster)
196. Tomamichel, MM, K Lowe, RJ Hall, CW Osenberg, JE Byers. A meta-analysis of the effect of temperature and host-parasite traits on parasite-induced mortality of fisheries hosts. International Symposium on Aquatic Animal Health. Santiago, Chile. September 2022.
197. Freeze, JG, DM Cryan, CW Osenberg. Comparing diver-held and stationary camera as tools for quantifying cleaning mutualisms. CURO Symposium. Athens, GA. April 2023 (poster).
198. Tomamichel, MM, KI Lowe, KMH Arnold, ME Frischer, BJ Irwin, CW Osenberg, RJ Hall, JE Byers. The effect of temperature, host, and parasite traits on parasite-induced mortality in fisheries: a meta-analysis. Ecology and Evolution of Infectious Diseases. University Park, PA. May 2023.
199. Tomamichel, MM, KI Lowe, KMH Arnold, ME Frischer, BJ Irwin, CW Osenberg, RJ Hall, JE Byers. The effect of temperature, host, and parasite traits on parasite-induced mortality in fisheries: a meta-analysis. Annual meeting of the Ecology Society of America. Portland, Oregon. August 2023.
200. Shima, J, C Osenberg, E Noonburg, S Alonzo, S Swearer. Spawning phenology and offspring sex: Do protogynous hermaphrodites spawn on new moons to make males? Indo-Pacific Fish Conference, Auckland, New Zealand. November 2023.
201. Cryan, DM and CW Osenberg. Trait-mediated effects of cleaning mutualisms on coral reef herbivory. Western Society of Naturalists. Monterey CA. November 2023.
202. Cryan, DM, M Lachot, and CW Osenberg. Are cleaning stations safe havens from predation on coral reefs? 52nd Annual Benthic Ecology Meeting. Charleston, SC. 2024.
203. Primo, A. and CW Osenberg. Coral couch potatoes: sex differences of symbionts in a coral cleaning mutualism. Odum School of Ecology Graduate Student Symposium, Athens, GA. January 2024.
204. White, A, DM Cryan, and CW Osenberg. How does the bluestreak cleaner wrasse affect the feeding behaviors of the striated surgeonfish? Odum School of Ecology Graduate Student Symposium, Athens, GA. January 2024. (poster)
205. Shima, J, S Alonzo, C Osenberg, E Noonburg, S Swearer. Reproductive phenology and offspring sex: how spawning on different phases of the moon shapes environmental sex determination in a coral reef fish. 3rd Joint Congress on Evolutionary Biology. Montreal, Canada. July 2024.
206. Stier, AC, CW Osenberg. Widespread heterogeneity in density-dependent mortality of reef fishes. Annual meeting of the Western Society of Naturalists. Portland, OR. November 2024.

Invited Seminars

1. University of California at Riverside, January 1989. (2 talks)
2. Arizona State University, April 1990.
3. University of Oklahoma Biological Station, April 1990.
4. University of Oklahoma, April 1990.
5. University of California at Berkeley, December 1990.
6. Ohio State University, April 1991.
7. Colloquium on Pollution. Invited speaker and panelist. Department of Geography, University of California at Santa Barbara, November 1991.
8. Department of Biological Sciences, Dartmouth College, October 1992.
9. Department of Zoology, Oregon State University, January 1994. (1 seminar and 1 discussion group)
10. Department of Zoology, University of Florida, April 1994.
11. Department of Biological Sciences, Florida State University, April 1996.

12. Department of Biology, Georgia Southern University, September 1996.
13. Department of Fisheries and Aquatic Sciences, University of Florida, September 1996.
14. Department of Biology, University of South Florida, February 1997.
15. Department of Wildlife Ecology and Conservation, University of Florida, March 1997.
16. Department of Biology, University of California, Santa Cruz, May 1997.
17. Department of Zoology, University of Florida, September 1997.
18. Department of Biology, University of Michigan, Ann Arbor, September 1997.
19. Department of Biological Sciences, Dartmouth College, September 1997.
20. Department of Zoology, University of Florida, September 1998.
21. Department of Zoology, Duke University, September 1999 (visited Duke but cancelled talk due to hurricane).
22. Department of Ecology and Environmental Science, Umeå University, Sweden, March 2000.
23. Department of Zoology, University of Washington, Seattle, March 2001 (Invited as the first W.T. Edmondson Memorial lecturer).
24. Department of Fisheries and Aquatic Sciences, University of Florida, September 2001.
25. Department of Biology, University of California, Santa Cruz, March 2002.
26. National Marine Fisheries Service (Northwest Fisheries Science Center), Seattle, WA, May 2002
27. Department of Zoology, University of Florida, September 2002.
28. St. Johns Water Management District, Palatka, FL, December 2002
29. Bodega Marine Laboratory, Bodega Bay, CA, Jan 2003
30. Ecology & Evolution Seminar Series, University of California, Davis, CA, Jan 2003
31. Department of Biology, Florida International University, Miami, FL, Feb 2003
32. Gump Biological Station, UC Berkeley, Moorea, French Polynesia, June 2003
33. Pymatuning Laboratory of Ecology, University of Pittsburgh, July 2003.
34. Department of Ecology and Systematics, University of Helsinki, Finland, March 2004.
35. University of Perpignan, France, May 2007.
36. École Pratique des Hautes Études, Perpignan, France, June 2007.
37. Department of Biology, University of North Florida, November 2007.
38. Virginia Commonwealth University, November 2008.
39. Northern Arizona University, February 2009.
40. Department of Mathematics, University of Florida, November 2010.
41. Department of Integrative Biology, University of South Florida, April 2012.
42. Interdepartmental Graduate Program in Marine Science, UC Santa Barbara, March 2013.
43. Odum School of Ecology, University of Georgia, March 2013.
44. Centro de Ciências do Mar, Universidade do Algarve, Portugal, June 2015
45. East Carolina University, Greenville, NC, Dec 2015.
46. Stanford University (Hopkins Marine Station), Pacific Grove, CA, June 2016
47. Michigan State University (EEB program), East Lansing, MI, Nov 2017
48. Kellogg Biological Station, Michigan State University, Hickory Corners, MI, Nov 2017
49. School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA, Feb 2019
50. Department of Marine Sciences, University of Georgia, Athens, GA, Oct 2019

Workshop Participant (if not already indicated under "Presented Papers...")

1. *Toxics in the California Coastal Environmental*, co-sponsored by UC Toxic Substances Research and Teaching Program and UC Institute for Marine Resources. University of California, Los Angeles, September 1988.
2. Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, January 1990.
3. Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, November 1991.

4. *Gutshop '92: Theory and application in fish feeding ecology*, co-sponsored by Washington Sea Grant Program, School of Fisheries (UW), Washington Department of Fisheries. Orcas Island, Washington, November 1992. (invited)
5. *Coastal Toxicology Research in California*. University of California, local, state and federal agency personnel. Santa Barbara, CA. February 1993. (invited)
6. Annual meeting of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, September 1994.
7. *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. 1st meeting of a working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. July 1996. (Organizer)
8. *An Analysis of the Relationship between Productivity and Diversity Using Experimental Results from the Long-Term Ecological Research Network*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. September 1996. (invited)
9. *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. 2nd meeting of a working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 1997. (Organizer)
10. *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. Planning meeting for a working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. April 1997. (Organizer)
11. *Florida Big Bend coastal research workshop: toward a scientific basis for ecosystem management*. Sponsored by Florida Sea Grant, UF Department of Fisheries and Aquatic Sciences, USGS (Florida Caribbean Science Center), and Suwannee River Water Management District. Steinhatchee, Florida, May 1997. (invited)
12. *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. 3rd meeting of a working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. May 1997. (Organizer)
13. *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. 4th meeting of a working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. May 1998. (Organizer)
14. Southwest Florida Water Management District assembly concerning *Ecological effects of nutrient loading along the Gulf coast of Florida*. Crystal River, Florida, May 1998. (invited)
15. *Extending, synthesizing and applying recent advances in competition theory*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 1999. (invited)
16. *Extending, synthesizing and applying recent advances in competition theory ("Open population" subgroup)*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. May 1999. (invited).
17. *Ornamental Marine Species Aquaculture Industry and University Interests Meeting*. Workshop organized by Florida Sea Grant Program, and held at the Tropical Aquaculture Laboratory in Ruskin, Florida. July 1999. (invited)
18. Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Component). Bodega Marine Laboratory, September, 1999. (workshop and meeting of the External Scientific Advisory Committee). (invited)
19. *Extending, synthesizing and applying recent advances in competition theory ("Open population" subgroup)*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. May 2000. (invited).

20. *Extending, synthesizing and applying recent advances in competition theory ("Open population" subgroup).* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. November 2000. (invited).
21. *Development of an integrated research plan for analyzing the viability of a marine reserve network in the Bahamas.* Lee Stocking Island, Bahamas. December 2000 (invited).
22. *Extending, synthesizing and applying recent advances in competition theory.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 2001 (invited).
23. Annual symposium of the UC Toxic Substances Research and Teaching Program. Tahoe, California. April, 2001 (invited as Chair of Advisory Committee to the Coastal Toxicology Component). (invited)
24. Springs Coast Technical Advisory Meeting, Southwest Florida Water Management District. Crystal River, FL. January 2002. (invited)
25. *Restoring and Sustaining Diversity of Tropical Pacific Coral Reef Fish.* Mo'orea, French Polynesia. April 2002 (invited participant, speaker, and session co-chair).
26. *Extending, synthesizing and applying recent advances in competition theory.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. April 2002 (invited).
27. Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Component). Bodega Marine Laboratory, September, 2002. (workshop and meeting of the External Scientific Advisory Committee). (invited)
28. Steinhatchee Reef Ecosystem Workshop. Steinhatchee, FL, November, 2002. (invited)
29. 2nd Annual Symposium on Franco-American University Cooperation. Paris, France, June 2004. Speaker and participant. By invitation of French Ambassador to US. (invited)
30. Workshop on Fish Production. California Coastal Commission. February 2005. Santa Cruz, California (invited).
31. *The fate of nitrogen inputs to terrestrial ecosystems.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 2005. (invited)
32. Options for Accelerating Recovery of Nutrient Impacted Regions of the Everglades Protection Area Workshop. West Palm Beach, FL, March, 2005. Invited speaker and member of expert panel. By invitation of the South Florida Water Management District. (invited)
33. Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Program). Bodega Marine Laboratory, September 2005.
34. EMPAFISH, a European Commission -sponsored program designed to synthesize ecological, fisheries and economic data from marine protected areas in the Mediterranean. February 2006, Canary Islands. (invited as Science Advisor)
35. *Conservation planning for ecosystem functioning: Testing predictions of ecological effectiveness for marine predators.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. March 2006. (invited)
36. *The fate of nitrogen inputs to terrestrial ecosystems.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. March 2006. (invited)
37. EMPAFISH, a European Commission -sponsored program designed to synthesize ecological, fisheries and economic data from marine protected areas in the Mediterranean. June 2006, Barcelona, Spain. (invited as Science Advisor)
38. *Conservation planning for ecosystem functioning: Testing predictions of ecological effectiveness for marine predators.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. October 2006. (invited)

39. EMPAFISH, a European Commission -sponsored program designed to synthesize ecological, fisheries and economic data from marine protected areas in the Mediterranean. February 2007, Pisa, Italy. (invited as Science Advisor)
40. *Conservation planning for ecosystem functioning: Testing predictions of ecological effectiveness for marine predators.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. November 2007. (invited)
41. *Conservation planning for ecosystem functioning: Testing predictions of ecological effectiveness for marine predators.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. April 2008. (invited)
42. *Ocean Bridges.* Workshop at Centre de Reserches Insulaires et Observatoire de l'Environnement, Moorea, French Polynesia. (Co-organizer). February 2009. (co-organizer)
43. *Florida Symposium on Offshore Energy – Part II: The Inshore Challenges of Offshore Energy Prospects.* Expert panels convened to discuss environmental and legal issues of oil development. Tallahassee, Florida, February 1, 2010. (invited)
44. *Forever Costa Rica Measures SWAT Workshop.* Expert panel convened by The Nature Conservancy to help plan the monitoring of marine reserves in the Forever Costa Rica program. San Jose, Costa Rica, March 15-19, 2010. (invited)
45. *NSF IGERT 2010 Project Meeting.* May 23-25, 2010 Washington DC (invited)
46. *Research and Discoveries: the revolution of science through scuba.* Organized by NSF, Smithsonian Institution and the Ocean Sciences Board of the NRC. May 24-25, 2010, Washington DC.
47. *Gulf State Universities' Involvement in BP's Gulf of Mexico Research Initiative.* Group of Gulf state university and BP representatives. LSU campus, Baton Rouge, LA, June 3-4, 2010 (invited).
48. *Ocean Bridges.* Workshop at Gump South Pacific Laboratory, Moorea, French Polynesia. (Co-organizer). July 2010. (co-organizer)
49. *Long-term monitoring of coastal ecosystem responses to the Deepwater Horizon oil spill.* Working group (funded by NSF rapid grant: Tom Miller, PI). Florida State University, Tallahassee, FL, 10-12 September 2010. (invited)
50. *Oil Spill-Induced Trophic Cascades in the Gulf: Exploring Impacts, Research Needs and Management Responses.* Workshop. Mote Marine Laboratory, Sarasota, FL. November 8-9, 2010 (invited)
51. *Gulf of Mexico Offshore Environment Working Group.* Working group organized by the Pew Environment Group. New Orleans, LA. April 10-12, 2011 (invited).
52. *Ocean Bridges.* Workshop at Gump South Pacific Laboratory, Moorea, French Polynesia. July 2011. (co-organizer).
53. *The Effects of the Macondo Oil Spill on Coastal Ecosystems.* Workshop of the GoMRI consortium; Baton Rouge, LA. February 2012.
54. *Trends in Ecological Analysis and Synthesis.* Symposium sponsored by the National Center for Ecological Analysis and Synthesis. Santa Barbara, CA. March 21-22, 2012 (organizing committee).
55. *Coral Reef Preservation.* Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. September 2012. (invited)
56. *The Effects of the Macondo Oil Spill on Coastal Ecosystems.* Workshop of the GoMRI consortium; New Orleans, LA. January 2013.
57. *Vision and Change in Biology Undergraduate Education.* Workshop sponsored by American Association for the Advancement of Science (AAAS). Washington DC. August 28-30, 2013. (invited)
58. *Georgia Coastal Ecosystems.* Annual meeting of the GCE-LTER. Athens, GA. January 2014.

59. *Gulf of Mexico Oil Spill and Ecosystems Science Conference 2014*, and the *CWC All Hands Workshop*. Mobile, AL. January 27-30, 2014.
60. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2015.
61. *Gulf of Mexico Oil Spill and Ecosystems Science Conference 2015*, and the *CWC All Hands Workshop*. Houston, TX. February 16-19, 2015.
62. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2016.
63. *Gulf of Mexico Oil Spill and Ecosystems Science Conference 2016*, and the *CWC All Hands Workshop*. Tampa, FL. February 1-5, 2016.
64. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2017.
65. *Gulf of Mexico Oil Spill and Ecosystems Science Conference 2017*, and the *CWC All Hands Workshop*. New Orleans, LA. February 6-10, 2017.
66. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2016.
67. *Gulf of Mexico Oil Spill and Ecosystems Science Conference 2018*, and the *CWC All Hands Workshop*. New Orleans, LA. February 5-9, 2018.
68. *LTER All Scientists' Meeting 2018*. Asilomar, CA. Sept 30-Oct 4 2018.
69. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2019.
70. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2020.
71. *Georgia Coastal Ecosystems*. NSF Site Visit (mid-term review). Virtual. June 2021.
72. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2022.
73. *LTER All Scientists' Meeting 2022*. Asilomar, CA. Sept 19-23 2022.
74. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. January 2023.
75. *Georgia Coastal Ecosystems*. Annual meeting of the GCE-LTER. Athens, GA. December 2024.

Presentations at Workshops (others listed under "Presented Papers")

1. "Assessment of ecological impacts in coastal waters". Workshop on "Toxics in the California Coastal Environment", co-sponsored by UC Toxic Substances Research and Teaching Program and UC Institute for Marine Resources. University of California, Los Angeles, September 1988 (with R.J. Schmitt and J.R. Bence).
2. "Integrated study of environmental impacts: linking environmental changes with biological responses". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, January 1990.
3. "Statistical considerations in environmental assessment studies: the Before-After-Control-Impact-Paired design". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, January 1990.
4. Chair, working group on "Environmental effects of produced water discharge". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, November 1991.
5. "Eco-toxicological research at the University of California". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Environmental Program). Bodega Marine Laboratory, September 1994.

6. "Metrics and models". *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. July 1996.
7. "Combining evidence across studies: meta-analysis, effect size and ecological models". *An Analysis of the Relationship between Productivity and Diversity Using Experimental Results from the Long-Term Ecological Research Network*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. September 1996.
8. "Stage-structured interactions in fish: coupling of spatially isolated habitats". *Extending, synthesizing, and applying recent advances in competition theory*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 1999.
9. "Life After Toxics". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Program). Bodega Marine Laboratory, September 1999.
10. "Density-dependence in reef fishes: meta-analytic approach and results". *Extending, synthesizing, and applying recent advances in competition theory ("Open population" subgroup)*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. November 2000.
11. "Density-dependence in reef fishes: an ongoing meta-analysis". *Extending, synthesizing, and applying recent advances in competition theory*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 2001.
12. "Effect of competing primary producers and herbivory on success of transplants of a native macrophyte (*Vallisneria americana*) in Kings Bay, FL, USA ". Springs Coast Technical Advisory Meeting, Southwest Florida Water Management District. Crystal River, FL. January 2002. (invited)
13. "Life After Toxics". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Program). Bodega Marine Laboratory, September 2002. (invited)
14. "Meta-analysis". *The fate of nitrogen inputs to terrestrial ecosystems*. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. January 2005. (invited)
15. "Quantifying effects of restoration: goals and approaches of assessment designs". *Options for Accelerating Recovery of Nutrient Impacted Regions of the Everglades Protection Area Workshop*. Organized by the South Florida Water Management District. West Palm Beach, FL. March, 2005. (invited)
16. "From here to there: ecological insights as applied to toxicological research". Annual workshop of the UC Toxic Substances Research and Teaching Program (Coastal Toxicology Program). Bodega Marine Laboratory, September 2005.
17. "Impact assessment and marine protected areas". Workshop of the *Ocean Bridges* program. Centre de Reserches Insulaires et Observatoire de l'Environnement, Moorea, French Polynesia, February 2009.
18. "Quantifying ecological effects: science in lieu of conjecture". *Florida Symposium on Offshore Energy – Part II: The Inshore Challenges of Offshore Energy Prospects*. Tallahassee, Florida, February 2010. (invited)
19. "Assessing ecological effects of MPAs". *Forever Costa Rica Measures SWAT Workshop*. San Jose, Costa Rica, March 2010. (invited)
20. "Beyond Deepwater Horizon: ecological synthesis and integration in a changing environment". *Oil Spill-Induced Trophic Cascades in the Gulf: Exploring Impacts, Research Needs and Management Responses*. Workshop. Mote Marine Laboratory, Sarasota, FL. November 8-9, 2010 (invited)

Other Presentations at Public Meetings and Press Interviews and News Articles

1. "Ecological and Demographic Effects of Produced Water". Southern California Educational Initiative Site Visit, University of California at Santa Barbara, April 1990.

2. "Demographic Effects of Produced Water". Southern California Educational Initiative Site Visit, University of California at Santa Barbara, March 1991.
3. "Ecological Effects of Produced Water". Southern California Educational Initiative Site Visit, University of California at Santa Barbara, March 1991.
4. "Environmental Effects of Produced Water". Presentation to the Minerals Management Advisory Board Outer Continental Shelf Scientific Committee, Santa Barbara, California, March 2, 1995. (invited)
5. Discussion with community groups about Marine Protected Areas. Moorea, French Polynesia, April 22, 2009.
6. Interview with local TV journalist. Moorea, French Polynesia, April 23, 2009.
7. "Oil spills, marine reserves, and coral reefs: why all the debate?" Coastal & Marine Laboratory Lecture Series, Florida State University, March 2011. (invited public talk).
8. Greenhouse gas emissions from soils and implications for climate change. Interviewed by Australian Broadcasting Corporation for their national radio programming (see van Groenigen et al. 2011 in Nature).
9. Interviewed by New York Times regarding meta-analytic studies on organic farming. September 2012.
10. Presentation to the Ocean Initiatives student club, Department of Marine Sciences, UGA, September 2022.
11. Panel for UGA REU students on applying to and succeeding in graduate school, UGA, July 2023.

Graduate Student Supervision and Post-doctoral Associates

| Student's name | Degree Program | Dates of service | Degree Date | Institution |
|------------------------------|----------------|------------------|-------------|--|
| Chair of Graduate Committee: | | | | |
| Bashey, F. | PhD | 1993-95 | — | UC Berkeley (co-Chair, 1993-95 at UC Berkeley, Integrative Biology, PhD student: transferred to UC Riverside when I moved to U. Florida) |
| Wilson, J. | MS | 1995-1998 | 1998 | University of Florida (Chair, Zoology) |
| Wilson, J. ³ | PhD | 1998-2004 | 2004 | University of Florida (Chair, Zoology) |
| Stevens, S. | MST | 1998-2000 | 2000 | University of Florida (Chair, Zoology) |
| Hale, R. | MS | 1998-2001 | 2001 | University of Florida (co-Chair, Zoology) |
| Vonesh, J. ⁴ | PhD | 1999-2003 | 2003 | University of Florida (Chair, Zoology) |
| Hale, R. ⁵ | PhD | 2001-2006 | 2006 | University of Florida (co-Chair, Zoology) |
| Miner, B. ⁶ | PhD | 2001-2003 | 2003 | University of Florida (co-Chair, Zoology) |
| McCoy, M. ⁷ | PhD | 2001-2006 | 2006 | University of Florida (Chair, Zoology) |
| White, J. | MS/PhD | 2003-2006 | 2010 | University of Florida (Chair, Zoology; changed advisors in 2006) |
| Saindon, D. | MS | 2003-2006 | 2006 | University of Florida (co-Chair, Fish. & Aq. Sci.) |

³ Title of dissertation: "Habitat quality, competition, and recruitment processes in two marine gobies"; staff scientist at National Marine Fisheries Service; previously a Knauss post-doctoral fellow at the National Marine Fisheries Service (Maryland).

⁴ Title of dissertation: "Sequential predation in a complex life history: interactions among egg, larval, and post-metamorphic predators on the east African treefrog, *Hyperolius spinularis*"; Professor at Virginia Commonwealth University (Richmond, VA); previously a post-doc at Washington University.

⁵ Title of dissertation: "Context-dependent natural and sexual selection on male nesting activity in flagfish (*Jordanella floridae*)"; Steve and Frosene Zeis Professor at University of North Carolina, Asheville; previously a post-doc at FSU.

⁶ Title of dissertation: "Evolution of phenotypic plasticity: insights from echinoid larvae"; Professor (and Department Chair) at Western Washington University (Bellingham, WA); previously a post-doc at Bodega Marine Lab/UC Davis.

⁷ Title of dissertation: "Trait mediated predator-prey interactions between treefrog tadpoles and aquatic invertebrates: integrating size structure, density, and among-individual variation"; Associate Professor at Florida Atlantic University (Harbor Branch Oceanographic Institute); previously on faculty at East Carolina University; previously held post-docs at Boston University, UF, & University of South Florida.

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|------------------------------------|--------|-----------|------|---|
| Kindsvater, H. | MS/PhD | 2004-2005 | — | University of Florida (co-Chair, Zoology; MS/PhD student; left my lab in 2005; transferred to Yale in 2006) |
| Geange, S. ⁸ | PhD | 2006-2010 | 2010 | Victoria University Wellington, New Zealand (co-Chair with Jeff Shima) |
| Stier, A. ⁹ | PhD | 2006-2012 | 2012 | University of Florida (Chair, Zoology) |
| Chaffe, C. | PhD | 2007-2010 | — | University of Florida (co-Chair, Zoology; changed advisors in 2010; completed 2013) |
| Beasley, J. | PhD | 2007-2010 | — | University of Florida (co-Chair, Fish. & Aq. Sci.; withdrew). |
| Blohm, G. | MS | 2007-2008 | 2008 | University of Florida (co-Chair, Zoology) |
| Gil, M. ¹⁰ | PhD | 2009-2015 | 2015 | University of Florida (Chair, Zoology) |
| Hamman, E. ¹¹ | PhD | 2010-2017 | 2017 | University of Georgia (Chair, Ecology); transferred from UF in 2014 |
| Jiao, J. ¹² | PhD | 2011-2017 | 2017 | University of Florida (co-Chair, Zoology) |
| Allen-Jacobson, L.M. ¹³ | PhD | 2011-2018 | 2018 | University of Florida (Chair, Zoology) |
| Brown, A. ¹⁴ | PhD | 2012-2018 | 2018 | University of Georgia (Chair, Ecology); transferred from UF in 2014 |
| Shirk, P. ¹⁵ | PhD | 2012-2020 | 2020 | University of Florida (Chair, Zoology) |
| Hawkins, D. ¹⁶ | MS | 2017-2020 | 2020 | University of Georgia (Chair, Ecology) |
| Jacobs, G. ¹⁷ | PhD | 2015-2021 | 2021 | University of Georgia (co-Chair, Ecology) |
| Briggs, A. ¹⁸ | PhD | 2015-2022 | 2022 | University of Georgia (Chair, Ecology) |
| Atkins, R. ¹⁹ | PhD | 2015-2022 | 2022 | University of Georgia (Chair, Ecology) |
| Primo, A. | PhD | 2020-202x | 202x | University of Georgia (Chair, Ecology) |
| Cryan, D. | PhD | 2020-202x | 202x | University of Georgia (Chair, Ecology) |
| Solano, N. | PhD | 2020-202x | 202x | University of Georgia (co-Chair, Ecology) |
| Vaughn, K. | PhD | 2022-202x | 202x | University of Georgia (Chair, Ecology) |
| Demehin, G. | PhD | 2023-202x | 202x | University of Georgia (Chair, Ecology) |

⁸ Title of dissertation: “An evaluation of prior residency and habitat effects on the persistence of settling reef fishes”; Science Advisor to the Marine Ecosystems Unit in Department of Conservation, Wellington, NZ

⁹ Title of dissertation: “Predation and habitat drive reef fish community organization”; Associate Professor at the University of California Santa Barbara; previously a post-doctoral scientist at U Washington, a Killam Post-doctoral Fellow at UBC, and an NCEAS/NMFS Postdoctoral Fellow.

¹⁰ Title of dissertation: “Context dependence in effects of nutrient enrichment on tropical coral reefs”; Assistant Professor at University of Colorado, Boulder; previously a post-doc at CU-Boulder and UC Santa Cruz, an NSF postdoctoral fellow at UC Davis, a 2017 TEDxGlobal Fellow, and a 2018 National Geographic Fellow.

¹¹ Title of dissertation: “Multi-scale patterning of corals and their symbionts”; Assistant Professor at St. Mary’s College of Maryland; previous post-docs at Tulane University and East Carolina University.

¹² Title of dissertation: “Effects of movement in human-influenced marine systems”; Assistant Professor at Texas Christian University; previously held post-docs at Michigan State University, University of Tennessee (NIMBioS), and Florida State University.

¹³ Title of dissertation: “Life in a colony: growth, morphology, and metabolic scaling”; Senior Scientist at INSPIRE Environmental; previously held post-docs at Northeastern University, NOAA, and USDA/University of Florida).

¹⁴ Title of dissertation: “Trait-mediated effects and the extended phenotype: community interactions on coral reefs”; Assistant Professor at University of California Davis; previously a post-doc at Woods Hole Oceanographic Institute and the University of Florida.

¹⁵ Title of dissertation: “Chameleons in a changing climate”; staff scientist at the Centers for Disease Control; previously a post-doc at Oregon State University.

¹⁶ Title of thesis: “Ontogenetic diet shifts at multiple spatial scales in the salt marsh periwinkle, *Littoraria irrorata*”; currently a Biology with the Washington Department of Fish & Wildlife.

¹⁷ Title of dissertation: “Population-level consequences of environmental variation for migratory fishes”; post-doc at Cornell University.

¹⁸ Title of dissertation: “Algae affect coral reef microbial communities at multiples spatial scales, with consequences for coral-algal regime shifts”; Went on to post-docs at the National Museum of Natural History Fellow at the Smithsonian Marine Station, and the Center for Population Biology at the University of California Davis.

¹⁹ Title of dissertation: “Intraspecific variation in the distribution, physiology, population traits, and consumer effects of the salt marsh periwinkle, *Littoraria irrorata*, across its geographic range”; Coastal Ecology Program Analyst with NOAA; previously a Knauss Fellow at NOAA.

Major accomplishments of my Ph.D. students (while in my lab):

- ESA Early Career Fellows (Stier, Gil); Fulbright (Geange); EPA Star Fellowships (Vonesh, Wilson, Kindsvater); NSF Doctoral Fellowship (Atkins, Gil, White); NSF Post-doctoral Fellowship (Gil); NSF Doctoral Dissertation Improvement Grant (Vonesh, Hale); NSF IGERT Fellowship (Hamman, Allen-Jacobson); UW Kohn Fellowship (Miner), NOAA Sea Grant Knauss Fellowship (Wilson, Atkins); UF Alumni/Graduate School Fellowship (Gil, White, Chaffe, Beasley, Shirk); UF Presidential Fellowship (Kindsvater); UF Grinter Fellowships (Hamman, Miner, Hale, Stevens); Swisher Water Resource Assistantship (Saindon); CLAS Dissertation Fellowship (Stier, Miner, Jiao); Maturo Fund Award (Chaffee, Hamman, Allen-Jacobson); Ed Stolarz Memorial Fellowship in Marine Biology (Gil); Florida Sea Grant Nutrient Dynamics Fellowship (Gil); UGA Presidential Fellowship (Atkins); UGA GSS Fellowship (Briggs); ARCS Foundation Scholar (Briggs); Beverly Hirsch Frank Graduate Fellowship (Briggs); UGA GREAT Fellowship (Cryan).
- Recipient of Buell Award from the Ecological Society of America (2003, Vonesh); Frost Award from ESA (2005, Vonesh); Teaching Award from UF Zoology (2004, McCoy); Best Paper Award from UF Zoology/Biology (2011, Stier; 2003, Vonesh; 2014 Gil (runner up)); Best Oral Presentation at Benthic Ecology Meeting (2018, Atkins).
- Additional support from Lincoln Park Zoo, Cleveland Zoo, Sigma Xi, Society for the Study of Amphibians and Reptiles, Rany Fund, Society for Integrative and Comparative Biology, International Women's Fishing Association, PADI, and MK Pentecostal Ecology Fund. In total my students have procured >\$1,000,000 in research support and fellowships independent of my own grants.
- Extensive productivity: see publications section for a listing of the papers they published based upon work in my lab.

Member of Graduate Committee (Name, degree program, date of service, date of degree):

| | | | | |
|------------------------|--------|-----------|------|--|
| Olson, M.H. | Ph.D. | 1989-1993 | 1993 | Michigan State University (Zoology) |
| Steichen, D.J. | M.A. | 1991-1994 | 1994 | UC Santa Barbara (Biological Sciences) |
| Marks, J.C. | Ph.D. | 1992-1995 | 1995 | UC Berkeley (Integrative Biology) |
| Huckins, C.J. | Ph.D. | 1992-1996 | 1996 | Michigan State University (Zoology) |
| Rodríguez-Robles, J.A. | Ph.D. | 1993-1994 | — | UC Berkeley (served on Qualifying Cmt. only) |
| Rettig, J.E. | Ph.D. | 1993-1999 | 1999 | Michigan State University (Zoology) |
| Cobb, D. | M.S. | 1994 | 1994 | UC Berkeley (Integrative Biology: Chair of thesis exam committee, but not advisor) |
| Poteet, M.F. | Ph.D. | 1994-1995 | — | UC Berkeley (I resigned from UC Berkeley) |
| Lane, S.D. | Ph.D. | 1994-1995 | — | UC Berkeley (I resigned from UC Berkeley) |
| Shivik, J.A. | M.S. | 1994-1995 | 1995 | UC Berkeley (Env. Policy, Science and Management) |
| Kuprihanova, E. | Ph.D. | 1995-1997 | — | University of Florida (Zoology: withdrew) |
| Coul, B.A. | Ph.D. | 1997 | 1997 | University of Florida (Statistics) |
| Samudio, R. | Ph.D. | 1996-2001 | 2002 | University of Florida (Zoology) |
| Kappes, J. | Ph.D. | 1996-2004 | 2004 | University of Florida (Wildlife Ecology and Conservation) |
| Evert, J. | M.S. | 1996-1999 | 1999 | University of Florida (Zoology) |
| Farina, B. | M.S.T. | 1996-2000 | 2000 | University of Florida (Zoology) |
| Boye, S. | M.S. | 1996-2000 | 2000 | University of Florida (Zoology) |
| Rooney, A. | Ph.D. | 1997 | 1998 | University of Florida (Zoology, qualifying exam only: 1997) |
| Morgan, K. | Ph.D. | 1997-1999 | — | University of Florida (Zoology: withdrew) |
| Forde, S. | Ph.D. | 1998-2002 | 2002 | University of California, Santa Cruz (E&EB) |
| Schaack, S. | M.S. | 1999-2002 | 2002 | University of Florida (Zoology) |
| Santisteban, L. | Ph.D. | 1999-2001 | — | University of Florida (Wildlife Ecology and Conservation: withdrew with MS) |
| Hill, J. | Ph.D. | 1999-2003 | 2003 | University of Florida (Fisheries & Aq. Sci.) |
| Byström, P. | Ph.D. | 2000 | 2000 | University of Umeå, Sweden (Faculty Opponent) |
| Hart, M. | M.S. | 2000-2002 | 2002 | University of Florida (Fisheries & Aq. Sci.) |
| Heyland, A. | Ph.D. | 2000-2004 | 2004 | University of Florida (Zoology) |

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|---------------------------------|-------|-----------|------|---|
| Alto, B. | Ph.D. | 2001-2006 | 2006 | University of Florida (Entomology) |
| McCoy, K. | Ph.D. | 2001-2007 | 2007 | University of Florida (College of Natural Resources and the Environment) |
| Nagy, B. | Ph.D. | 2002-2007 | — | University of Florida (Fisheries and Aq. Sci.; withdrew from program) |
| Martin, J. | Ph.D. | 2002 | 2007 | University of Florida (Wildlife Ecology and Conservation) |
| Rogers, M. | Ph.D. | 2003-2007 | 2007 | University of Florida (Fisheries & Aq. Sci.) |
| Brennan, N. | Ph.D. | 2003-2007 | 2007 | University of Florida (Fisheries & Aquat. Sci.) |
| Lazar, K. | M.S. | 2003-2005 | 2009 | University of Florida (Fisheries & Aquat. Sci.) |
| Okuyama, T. | Ph.D. | 2003-2006 | 2006 | University of Florida (Zoology) |
| Biesinger, Z. | Ph.D. | 2004-2011 | 2011 | University of Florida (Fisheries and Aquat. Sci.) |
| Kimbrell, T. | Ph.D. | 2004-2007 | 2007 | University of Florida (Zoology) |
| Poulsen, J. | Ph.D. | 2004-2008 | 2009 | University of Florida (Zoology) |
| Kindsvater, H. | M.S. | 2005-2007 | — | University of Florida (Zoology); withdrew; transferred to Yale University for her PhD |
| Van Montfrans, S. | M.S. | 2009-2014 | — | University of Florida (Biology); never finished |
| Nifong, J. | Ph.D. | 2010-2014 | 2014 | University of Florida (Biology) |
| Ruktanonchai, N. | PhD | 2010-2014 | 2014 | University of Florida (Biology) |
| Angelini (Holdredge), C. | Ph.D. | 2010-2014 | 2014 | University of Florida (Biology) |
| Hensel, M. | M.S. | 2011-2013 | 2013 | University of Florida (Biology) |
| Langebrake, J. | Ph.D. | 2011-2013 | 2013 | University of Florida (Mathematics) |
| Etienne, V. | M.S. | 2012-2014 | 2014 | University of Florida (Biology) |
| Palumbo, M. | Ph.D. | 2012-2014 | — | University of Florida (Biology); I removed myself due to my move to UGA. |
| Leray, M. | Ph.D. | 2012 | 2012 | Université Pierre et Marie Curie, Paris |
| Saucedo, O. | Ph.D. | 2012-2014 | 2016 | University of Florida (Mathematics); I removed myself due to my move to UGA. |
| Griffin, A. | Ph.D. | 2015-2018 | 2018 | University of Georgia (Ecology) |
| Malek, J. | Ph.D. | 2015 | 2015 | University of Georgia (Ecology) |
| Smith, R. | Ph.D. | 2015-2019 | 2019 | University of Georgia (Ecology) |
| Beauvais, J. | Ph.D. | 2017-2019 | 2022 | University of Georgia (Ecology/ICON); changed research topics. |
| Blaze, J. | M.S. | 2019-2024 | 2024 | University of Georgia (Ecology); non-thesis (moved from PhD program) |
| Tomczyk, N. | Ph.D. | 2019-2023 | 2023 | University of Georgia (Ecology) |
| Working, C. | M.S. | 2020-2021 | 2021 | University of Georgia ²⁰ |
| Harris, R.D. | Ph.D. | 2021-2025 | 2025 | University of Georgia (Ecology) |
| Nass, L. | Ph.D. | 2021-2024 | 2024 | Tulane University (Mathematics) |
| Simon, J. | Ph.D. | 2022-202x | 202x | University of Georgia (Marine Sciences) |
| Pierce, M. | Ph.D. | 2022-202x | 202x | University of Georgia (Ecology) |
| Walther, E. | Ph.D. | 2023-202x | 202x | University of Georgia (Ecology) |
| Shattuck, A. | Ph.D. | 2024-202x | 202x | Cornell University (Entomology) |
| Other hosted graduate students: | | | | |
| Emmanuelli, Esther | | 2006 | | MS student from Ecole Pratique des Hautes Etudes, Perpignan (France) sponsored by FACE program, hosted by Osenberg. |
| Delval, Adrien | | 2007 | | MS student from Univ. Perpignan, sponsored by FACE program, hosted by Osenberg. |
| Kernaleguen, Laëtitia | | 2009 | | MS student, sponsored by CRIOBE, hosted by Osenberg. Worked on Moorea MPA program. Now a PhD student in France. |

²⁰ Cece transferred to the Warnell School, reformed her committee, and graduated with a Masters in Natural Resources.

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| Riotte-Lambert, Louise | 2010 | MS student, Ecole Normale Supérieure (Paris). Internship in Osenberg's lab. |
| Leray, Matthieu | 2011 | PhD student from Ecole Pratique des Hautes Etudes, Perpignan (France) sponsored by FACE program, hosted by Osenberg. |

Undergraduate theses and supervised research (selected from over 60 students) [many of these students worked most closely with one of my graduate students]:

| | | |
|---------------------|------------|---|
| Martinez, Ari | 1990-1992 | UCSB; went on to PhD at University of Florida. |
| Kaltenberg, Anthony | 1990-1992 | UCSB, went on to graduate school at Oregon State University. |
| Vredenberg, Vance | 1991-1992 | UCSB; went on to PhD at UC Berkeley. |
| Forde, Samantha | 1994-1995 | UCB; went on to PhD at UC Santa Cruz. |
| Billingsley, Linda | 1995 | UF; went on to Bureau of Land Management, Fairbanks, Alaska. |
| Pagan, Xavier | 1997 | UF; went on to MS at Florida International University. |
| Adam, Thomas | 2000-02 | UF; went on to PhD at UC Santa Barbara. |
| O'Donnell, James | 2003-05 | UF; senior honors thesis: "Habitat selectivity and size allometry of the Christmas tree worm <i>Spirobranchus giganteus</i> (Polychaeta: <i>Serpulidae</i>).” Went on to PhD at UC Santa Cruz. |
| Schuster, Katya | 2005-06 | UF; went on to MS at University of North Florida and DVM at St. George's University. |
| Boyer, Shelby | 2006 | UF; senior honors thesis: "Effects of the fish anesthetic, clove oil (eugenol), on coral health and growth". Went on to MS at Moss Landing Marine Lab and PhD at SUNY Buffalo |
| Ungvari, Judit | 2006 | UF; went on to PhD at UF |
| Boonstra, Roxane | 2007 | UF; went on to MS at University of Miami. |
| Vuxton, Emily | 2007 | UF; went on to MS program at Duke's Nicholas School of the Environment. |
| Payne, Alex | 2009 | UF; went into the Peace Corps |
| Hartmann, Chrystal | 2008, 2010 | UF; senior honors thesis "Effects of farmed fish on vermetid gastropod and sediment abundance". Went on to MS program in Fisheries at UF. |
| Zill, Julie | 2010-2013 | UF; went on to PhD program (NSF Graduate Research Fellow) at UHawaii. |
| Overholtz, Luc | 2012-2013 | UF; senior honors thesis: "Comparison of sampling methods used to study plant- pollinator systems". Went into the Peace Corps and then medical school. |
| Udell, Brad | 2012-2013 | UF; went on to PhD program at UF. |
| Mulligan, Angela | 2012 | UF; went to work at Florida Fish and Wildlife Commission / The Nature Conservancy |
| Fuchs, Corine | 2013-2015 | UF; senior honors thesis: "Density of vermetid gastropods reduces their feeding rates"; USP scholar; went on to PhD program at UCSB and NSF GRFP. |
| Hackney, Noah | 2013-2014 | UF; USP scholar |
| Michael Hartman | 2013 | UF; also worked as part of UF Teach program |
| Sipley, Breanna | 2013 | UF |

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| Farrell, Morgan | 2013-2016 | UF; USP scholar; went on to MS at SFSU. |
| Rubin, Alissa | 2013-2015 | UF; USP scholar |
| Bennet, Samantha | 2015-2016 | UGA |
| Miller, Catherine | 2015-2016 | UGA |
| Francis, Jordan | 2015-2016 | UGA; went to work at the Tennessee Aquarium |
| Zacharias, Margaret | 2015-2018 | UGA; CURO assistantship; Peace Corps and then EPA. |
| Sanders, Katherine | 2016 | UGA |
| Sweeney, Corrine | 2016 | UGA; went on to MS at UGA. |
| Lee, Jaseao (Julie) | 2016 | UGA |
| Shaffer, Samantha | 2016 | High school student |
| Templeton, Rebecca | 2016-2017 | High school student (Young Dawgs program) |
| Ryburn, Savannah | 2016-2017 | UF; went on to PhD program at UNC |
| Clancy (Chiu, Mei), Katherine | 2016-2018 | UGA (interdisciplinary honors thesis), outdoor educator |
| Pylant, Abigail | 2016-2017 | UGA; went on to work at Aeterra |
| Mayes, Kelly | 2016-2017 | UGA; went on to MS at UGA |
| Skinner, Rachel | 2016-2017 | UGA |
| Potter, Elizabeth (Betsy) | 2016-2017 | UGA |
| Lacy, LuLu | 2017-2018 | UGA, CURO assistantship; went on to PhD program at FIU. |
| Strickland, Ashley | 2017 | UGA |
| Rasheed, Hend | 2017-2018 | UGA; CURO assistantship |
| Ellis, William | 2018-2019 | High school student (Young Dawgs program) |
| Dutton, Gracen | 2019 | High school student (Young Dawgs program) |
| Duncan, Jennifer | 2019-2022 | UGA, CURO assistantship and CRO fellowship; went on to graduate program at Dauphin Island Sea Lab. |
| Sycamore, Jennifer | 2019-2020 | UGA, CURO assistantship |
| Ellis, William | 2019-2020 | UGA, CURO assistantship |
| Freeze, Jestin (Jesse) | 2020-2023 | UGA, CURO assistantship, applying to graduate school |
| Marino, Jayce | 2022-2023 | UGA, Georgia Aquarium and applying to graduate school |
| White, Aaron | 2023-2024 | UGA, music career |
| Deneka, Christian | 2023-2024 | UGA, applying to graduate school |
| Hane, Clarissa | 2023- | UGA, Porter Undergraduate Research Award |
| Fulford, Mackenzie | 2023- | UGA |
| Lachot, Michelle | 2023- | UGA |
| Sisonick, Peyton | 2024- | UGA |
| Patterson, Kathleen | 2024- | UGA |
| Teichman, Camy | 2024- | UGA |
| Hayes, Emmy | 2024- | UGA |
| Thomas, Meghan | 2024- | UGA |
| Scott, Reina | 2024- | UGA |
| Gotschall, Sophie | 2024- | UGA |
| Lor, Cindy | 2024- | UGA |
| Thomas-Lichliter, Anna-Leigh | 2024- | UGA |
| Lockett, Afia | 2024- | UGA |
| Plumlee, Ayden | 2024- | UGA |

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| Post-doctoral Associates: Sarnelle, Orlando | 1996-1997 | Sponsored by, and in residence at, the NSF National Center for Ecological Analysis and Synthesis in Santa Barbara, CA. Now emeritus faculty at Michigan State University. |
| Huckins, Casey J | 1996-1998 | University of Florida (supported on NSF grant). Now on faculty at Michigan Technical University. |
| Hauxwell, Jennifer | 2000-2001 | University of Florida (supported by SWFMD; with T. Frazer). Now a Research Scientist with the Wisconsin DNR. |
| Vigliola, Laurent | 2000-2002 | University of Florida (supported by Sea Grant). Now a staff scientist with IRD in France & New Caledonia. |
| Rogers, Bruce (Lock) | 2003-2004 | University of Florida (supported by NSF grant). Now on faculty at Agnes Scott College. |
| Wilson, Jacqueline | 2004-05 | 1) University of Florida (supported by NSF grant); 2) Knauss Fellowship in Marine Policy (funded by NOAA; in residence at NMFS, Silver Spring, MD; appointed through UF). Now on staff with the National Marine Fisheries Service. |
| Claudet, Joachim | 2006-2007 | Sponsored by EMPAFISH (in Florida, Sept & Oct 2006). Now on faculty at National Center for Scientific Research (CNRS), Paris, France. |
| Stier, Adrian | 2012 | University of Florida (supported by NSF grant). Post-doc at UBC and NCEAS/NMFS; now on faculty at UC Santa Barbara. |
| Pappalardo, Paula | 2015-2017 | University of Georgia (supported by DOE grant; now staff scientist at Smithsonian Environmental Research Center). |
| Song, Chao | 2018-2021 | Michigan State University (supported by NSF grant that is collaborative between MSU and UGA; Dr. Song was based at MSU); now on faculty at Lanzhou University. |
| Hamman, Elizabeth | 2019-2021 | Tulane University (supported by NSF grant that is collaborative between Tulane, UCSB, and UGA; Dr. Hamman was based at Tulane); now on faculty at St. Mary's College of Maryland. |

Courses Taught

UC Santa Barbara (1988 - 1992):

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| Bio 120 | Introduction to Ecology |
| Bio 192 | Special Topics in Biology |
| Bio 193 | Internship in Biological Sciences |
| Bio 199 | Independent Studies |
| Bio 245 | Advanced Population Biology (guest lecturer) |
| Bio 595 ET | Topics in Coastal Environmental Toxicology |

Special Programs:

- EOP/SAA Special Projects/Research Mentorship Program
- College of Letters and Science Honors Program

UC Berkeley:

| | | |
|--------------|--------|---|
| Fall 1992: | IB 153 | Population and Community Ecology (guest lecturer) |
| | IB 254 | Ecological Research Reviews |
| Spring 1993: | IB 250 | Ecological Inference: Experimental Design and Statistical Applications |
| | IB 254 | Ecological Research Reviews |
| Fall 1993: | IB 153 | Population and Community Ecology |
| | IB 199 | Supervised Independent Study and Research |
| | IB 251 | Ecological Research Reviews |
| | IB 292 | Integrative Biology Colloquium |
| | IB 296 | Special Study for Graduate Students |
| Spring 1994: | IB 152 | Marine Pollution (guest lecturer) |
| | IB 253 | Quantitative and Experimental Methods in Ecology |
| | IB 251 | Ecological Research Reviews |
| | IB 292 | Integrative Biology Colloquium |
| | IB 296 | Special Study for Graduate Students |
| Fall 1994: | IB 299 | Graduate Research |
| | IB 153 | Population and Community Ecology |
| | IB 251 | Ecological Research Reviews |
| Spring 1995: | IB 296 | Special Study for Graduate Students |
| | IB 250 | Population Structure: Linking Individual Variation with Community Consequences |
| | IB 251 | Ecological Research Reviews |
| | IB 296 | Special Study for Graduate Students |
| | Misc. | Presentation to SCIBUGS (Society of Integrative Biology Undergraduates), April 1995 |

University of Florida:

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|--------------|---------------|---|
| Fall 1995: | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6927 | Graduate Orientation Seminar (2 guest presentations) |
| | Zoo 6927 | Research Reviews in Ecology and Evolution |
| Spring 1996: | Zoo 6927/7250 | Research Reviews in Ecology and Evolution |
| | Zoo 6927/4059 | Quantitative Methods and Ecological Inference |
| | Zoo 6905 | Individual Studies (Graduate research) |
| Fall 1996: | Zoo 6927/4354 | Research Reviews in Ecology and Evolution |
| | Zoo 6927/7576 | Readings in Population and Community Ecology |
| | Zoo 6927 | Graduate Orientation Seminar (2 guest presentations) |
| | Zoo 6971 | Master's Research |
| Spring 1997: | BSC 2011 | Integrative Principles of Biology (Introductory biology for majors), two sections |
| | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| Summer 1997: | Zoo 6927 | Research Reviews in Ecology and Evolution |
| | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| Fall 1997: | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6927 | Graduate Orientation Seminar (guest presentations) |
| | Zoo 6927/4633 | Research Reviews in Ecology and Evolution |
| | Zoo 6927/4635 | Readings in Population and Community Ecology |
| | Zoo 6971 | Master's Research |
| Spring 1998: | BSC 2011 | Integrative Principles of Biology (6 guest lectures), two sections |
| | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6927/5205 | Quantitative Methods and Ecological Inference |
| | Zoo 6927/4884 | Topics in Quantitative Methods |
| | Zoo 6971 | Master's Research |
| Fall 1998: | Zoo 6927/5835 | Concepts of Ecology |
| | Zoo 6910/7678 | Supervised Research |

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| Spring 1999: | Zoo 7979/7671 | Advanced Research |
| | BSC 2011 | Integrative Principles of Biology (Introductory biology for majors), 2 sections |
| Summer 1999 Fall 1999 | Zoo 6971/7675 | Master's Research |
| | Zoo 7979/7674 | Advanced Research |
| | Zoo 7979/8636 | Advanced Research |
| | PCB 4044C | General Ecology (lecture and laboratory), 3 sections |
| | Zoo 6905 | Individual Studies (graduate research) |
| | Zoo 6927/6071 | Research Reviews in Ecology and Evolution |
| Spring 2000: | Zoo 6971/7672 | Master's Research |
| | Zoo 7979/7671 | Advanced Research |
| | (on 40% family medical leave) | |
| | PCB 5046C | Advanced Ecology (guest lecture) |
| | PCB 5615 | Evolutionary Genetics (guest lecture) |
| | Zoo 6905/7679 | Individual Studies |
| | Zoo 6910/7678 | Supervised Research |
| | Zoo 6971/7675 | Research for Master's Research |
| | Zoo 7979/— | Advanced Research |
| | Zoo 7980/7673 | Research for Doctoral Dissertation |
| Fall 2000: | BSC 2011 | Integrative Principles of Biology (Introductory biology for majors), 2 sections |
| | Zoo 6927 | Integrative Principles I (required graduate course) |
| | Zoo 6971/7672 | Master's Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| | PCB 4044C | General Ecology (lecture and laboratory), 3 sections |
| Spring 2001 | Zoo 6971/7675 | Master's Research |
| | Zoo 7980/7673 | Research for Doctoral Dissertation |
| Summer 2001 | Zoo 6971/8642 | Master's Research |
| | Zoo 7980/8644 | Research for Doctoral Dissertation |
| Fall 2001 | Zoo 6927 | Integrative Principles I (required graduate course) |
| | Zoo 6905/7679 | Individual Studies (graduate research) |
| | Zoo 7979/7671 | Advanced Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| Spring 2002 | Zoo 6927 | Integrative Principles II (required graduate course) |
| | Zoo 6927/5838 | Research Reviews in Ecology and Evolution |
| | Zoo 6910/7678 | Supervised Research (graduate research) |
| | Zoo 7979/7674 | Advanced Research |
| | Zoo 7980/7673 | Research for Doctoral Dissertation |
| Summer 2002 | Zoo 7980/xxx | Research for Doctoral Dissertation |
| Fall 2002 | Zoo 4905 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6910/xxx | Supervised Research |
| | Zoo 6927/0503 | Quantitative Methods and Ecological Inference |
| | Zoo 6927/xxx | Integrative Principles (req. grad. course: I led the module on Inference) |
| | Zoo 7979/7671 | Advanced Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| | PCB 4044C | General Ecology (lecture and laboratory), 3 sections |
| | Zoo 6927/xxx | Integrative Principles (required graduate course) |
| Spring 2003 | Zoo 6927/4884 | Advanced Ecology |
| | Zoo 7979/7674 | Advanced Research |
| | Zoo 7980/7673 | Research for Doctoral Dissertation |
| | Zoo 7980/8719 | Research for Doctoral Dissertation |
| University of Pittsburgh (Pymatuning Laboratory of Ecology): | | |
| Summer 2003: | BSC 2550 | Experimental Design (with Chris Peterson and Peter Morin; I did the section on meta-analysis) |

University of Florida:

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| Fall 2003 | Zoo 6905/7679 | Individual Studies (graduate research) |
| | Zoo 6927/xxx | Integrative Principles (req. grad. course: I led the module on Inference) |
| | Zoo 6927/5390 | Foundations and Frontiers in Ecology |
| | Zoo 6927/7355 | Graduate Orientation Seminar |
| | Zoo 6971/7672 | Master's Research |
| | Zoo 7979/7671 | Advanced Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| Spring 2004 | PCB 4044C | General Ecology (guest lecture) |
| | Zoo 6971/7675 | Master's Research |
| | Zoo 7979/7674 | Advanced Research |
| | Zoo 7980/7673 | Research for Doctoral Dissertation |
| Summer 2004 | Zoo 7980/8719 | Research for Doctoral Dissertation |
| | Zoo 6971/8920 | Master's Research |
| | Zoo 7980/8922 | Research for Doctoral Dissertation |
| Fall 2004 | PCB 4044C | General Ecology (lecture and laboratory), 3 sections |
| | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6927/5008 | Integrative Principles (req. grad. course: I led the module on Inference) |
| | Zoo 6927/6287 | Advanced Ecology |
| | Zoo 6927/7355 | Graduate Orientation Seminar |
| | Zoo 6971/7672 | Master's Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| Spring 2005 | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research) |
| | Zoo 6927/ | Intro. to Mathematical Models in Ecology (co-taught with Bolker) |
| | Zoo 6971/ | Master's Research |
| | Zoo 7979/ | Advanced Research |
| | Zoo 7980/ | Research for Doctoral Dissertation |
| Summer 2005 | Zoo 6971/9093 | Master's Research |
| | Zoo 7980/9095 | Research for Doctoral Dissertation |
| Fall 2005 | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research): 4 students |
| | Zoo 6927/7355 | Integrative Principles (req. grad. course: I led the module on Inference) |
| | Zoo 6927/7249 | Advanced Ecology Seminar |
| | Zoo 6927/5008 | Graduate Orientation Seminar |
| | Zoo 6971/7672 | Master's Research |
| | Zoo 7980/7670 | Research for Doctoral Dissertation |
| Spring 2006 | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research): 3 students |
| | Zoo 6049 | Seminar in Ecology (Marine Biodiversity) |
| | Zoo 6905 | Individual Studies (graduate research) |
| | Zoo 6971 | Master's Research |
| | Zoo 7980 | Research for Doctoral Dissertation |
| Fall 2006 | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research): 1 student |
| | Zoo 6927/5008 | Integrative Principles (req. grad. course: I led the module on Inference) |
| | Zoo 6049 | Seminar in Ecology (w/ Ben Bolker) |
| | Zoo 6927/6982 | Quantitative Methods and Ecological Inference |
| | Zoo 6927/7355 | Graduate Orientation Seminar |
| Spring 2007 | Zoo 7980/7670 | Research for Doctoral Dissertation |
| | Zoo 4905 | Individual studies in Zoology (undergraduate research): 1 student |
| Fall 2007 | Zoo 4905/7680 | Individual Studies in Zoology (Undergraduate research): 1 student |
| | Zoo 6005/8698 | Integrative Principles (required graduate course) |
| | Zoo 6971 | Master's Research |
| Spring 2008 | Zoo 7980 | Research for Doctoral Dissertation |
| | PCB 4044C | General Ecology (combined with PCB 3034C) |
| | WIS 6934 | Systematic Reviews in Conservation Biology (guest lecture) |
| | Zoo 6905/6406 | Independent Research Study: 1 student |

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| | Zoo 7979/5896 | Advanced Research Study: 1 student |
| Summer 2008 | Zoo 7979/9094 | Advanced Research Study: 2 students |
| Fall 2008 | ALS 4905/9752 | Individual Studies in Zoology (Undergraduate research): 1 student |
| | Zoo 6005/8698 | Integrative Principles (I led the Inference Module) |
| | Zoo 7979/7671 | Advanced Research Study: 3 students |
| Spring 2009 (on sabbatical leave) | | |
| | Zoo 7979/7674 | Advanced Research Study: 2 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 1 student |
| | Zoo 6049 | Spatial Ecology Colloquium (guest lecturer) |
| Summer 2009 | Zoo 7979/9094 | Advanced Research Study: 1 student |
| | Zoo 7980 | Research for Doctoral Dissertation: 1 student |
| | WIS 4905 | Individual Studies (Undergraduate research): 1 student |
| | SSTP | Supervised two high school students via UF Student Science Training Program |
| Fall 2009 | Zoo4905/7680 | Individual Studies in Zoology (Undergraduate research): 1 student |
| | Zoo 6005/8698 | Integrative Principles (required graduate course) |
| | PCB 6049/9113 | Seminar in Ecology (Foundations and Frontiers in Ecology) |
| | Zoo 7979/7671 | Advanced Research Study: 2 students |
| | Zoo 7980/7670 | Research for Doctoral Dissertation: 1 student |
| | PCB 6049/9115 | Spatial Dynamics Colloquium (IGERT faculty participant) |
| | PCB 6049/9442 | QSE3 Workshop (IGERT faculty participant) |
| Spring 2010 | PCB 4043C/6406 | General Ecology (lecture and laboratory), 4 sections |
| | PCB 6049/9065 | Seminar in Ecology: Research Reviews |
| | Zoo 7979/7674 | Advanced Research Study: 3 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 1 student |
| | PCB 6049 | Spatial Dynamics Colloquium (participant) |
| | PCB 6049/8773 | QSE3 Workshop |
| Summer 2010 | ALS 4905/8655 | Individual Studies in Zoology (Undergraduate research): 1 student |
| | PCB 6049/9168 | QSE3 Workshop |
| | Zoo 6971/9093 | Master's Research: 1 student |
| | Zoo 7979/9094 | Advanced Research Study: 2 students |
| | Zoo 7980/9095 | Research for Doctoral Dissertation: 1 student |
| Fall 2010 | Zoo 6005/ | Integrative Principles (required graduate course; Inference module) |
| | PCB 6049/9846 | Seminar in Ecology (Research Reviews) |
| | PCB 6049/8342&8343 | Spatial Dynamics Colloquium |
| | PCB 6049/8340 | QSE3 Workshop |
| | Zoo 6927/8157 | Quantitative Methods and Ecological Inference |
| | Zoo 6905/7679 | Independent Research Study: 2 students |
| | Zoo 7979/7671 | Advanced Research Study: 2 students |
| | Zoo 7980/7670 | Research for Doctoral Dissertation: 1 student |
| University of Salento (Lecce, Italy) | | |
| December 2010 | | Introduction to Meta-analysis in Ecology (a short course open to students in the EU; co-taught with Fiorenza Micheli and Joachim Claudet; organized by Simonetta Frascchetti) |
| University of Florida: | | |
| Spring 2011 | PCB 4043C | General Ecology (lecture and laboratory), 5 sections |
| | PCB 6049/9065 | Seminar in Ecology: Research Reviews |
| | Zoo 6927 | Advanced study in ecology: 1 student |
| | Zoo 7979/7674 | Advanced Research Study: 3 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 1 student |
| | PCB 6049/8773 | QSE3 Workshop |
| Summer 2011 | PCB 6049/9168 | QSE3 Workshop |
| | Zoo 7980/9095 | Research for Doctoral Dissertation: 1 student |
| Fall 2011 | Zoo 6005/8698 | Integrative Principles (required graduate course) |

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| | Zoo 6905/7679 | Independent Research Study: 2 students |
| | Zoo 7979/7671 | Advanced Research Study: 2 students |
| | Zoo 7980/7670 | Research for Doctoral Dissertation: 2 students |
| Spring 2012 | PCB 4043C | General Ecology (lecture and laboratory), 7 sections |
| | Zoo 4940 | Teaching internship: 1 student |
| | PCB 6049/9065 | Seminar in Ecology: Research Reviews |
| | Zoo 7979/var. | Advanced Research Study: 2 students |
| | Zoo 7980/var. | Research for Doctoral Dissertation: 2 students |
| | PCB 6049/ | Spatial Dynamics Colloquium |
| Summer 2012 | Zoo 7979/(9094 and 4203) | Advanced Research Study: 2 students |
| | Zoo 7980/9095 | Research for Doctoral Dissertation: 1 student |
| Université de Perpignan (Perpignan, France) | | |
| June 2012 | | Introduction to Meta-analysis in Ecology (a short course open to students in the EU-funded program, CocoNet; co-taught with Fiorenza Micheli and Joachim Claudet) |
| University of Florida: | | |
| Fall 2012 | PCB 4043C | General Ecology (lecture and laboratory), 8 sections |
| | Zoo 6005/8698 | Integrative Principles (required graduate course; Inference module) |
| | PCB 6049/08C5 | Seminar in Ecology: Frontiers and Foundations |
| | PCB 6049/08DE | Spatial Dynamics Colloquium |
| | PCB 6049/8340 | IGERT workshop |
| | Zoo 7979/7674 | Advanced Research Study: 3 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 1 student |
| Spring 2013 | PCB 4043C | General Ecology (lecture and laboratory), 7 sections |
| | Zoo 4940 | Teaching internship: 1 student |
| | PCB 6049/9065 | Seminar in Ecology: Research Reviews |
| | Zoo 7979 | Advanced Research Study: 3 students |
| | Zoo 7980 | Research for Doctoral Dissertation: 1 student |
| | PCB 6049/8771 | Spatial Dynamics Colloquium |
| | MAT 6932/7882 | IGERT workshop |
| Summer 2013 | PCB 6049/737F | IGERT workshop |
| | Zoo 7979/(9094) | Advanced Research Study: 4 students |
| | Zoo 7980/9095 | Research for Doctoral Dissertation: 1 student |
| Fall 2013 | PCB 4043C | General Ecology (lecture and laboratory), 7 sections |
| | Zoo 4911 | Undergraduate Research: 1 student |
| | Zoo 6005/8698 | Integrative Principles (required graduate course; Inference module) |
| | PCB 6049/08DE | Spatial Dynamics Colloquium |
| | Zoo 7979/7674 | Advanced Research Study: 3 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 1 student |
| Spring 2014 | Zoo 4911 | Undergraduate Research: 1 student |
| | Zoo 4927&6927 | UF in French Polynesia – Marine Ecology (10 students) [this course was led by Mike Gil and Lianne Jacobson, PhD students in my lab] |
| | PCB 6049/9065 | Seminar in Ecology: Research Reviews |
| | Zoo 7979/7674 | Advanced Research Study: 3 students |
| | Zoo 7980/7673 | Research for Doctoral Dissertation: 2 students |
| Università di Genova (Santa Margherita Ligure, Italy) | | |
| May 2014 | | Introduction to Meta-analysis in Ecology (a short course open to students in the EU; co-taught with Fiorenza Micheli and Joachim Claudet (organized by Mariachiara Chiantore) |
| University of Florida: | | |
| Summer 2014 | Zoo 7979/9094 | Advanced Research Study: 1 student |
| | Zoo 7980/9095 | Research for Doctoral Dissertation: 1 student |
| Fall 2014 | Bot 7980/9551 | Research for Doctoral Dissertation: 1 student |
| | Zoo 7979/7671 | Advanced Research Study: 1 student |

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| University of Georgia: | Zoo 7980/7670 | Research for Doctoral Dissertation: 2 students |
| Fall 2014 | Ecol 9000 | Doctoral Research: 2 students |
| Spring 2015 | Ecol 3900 | Directed Reading: 1 student |
| | Ecol 4950 | Senior seminar (co-taught with A. Rosemond) |
| | Ecol 8990 | Problems in Ecology (aka Research Reviews) |
| | Ecol 9000 | Doctoral Research: 2 students |
| University of Florida: | | |
| Spring 2015 | Zoo 7979/7674 | Advanced Research Study: 1 student |
| | Zoo 7980/7673 | Doctoral Research: 3 students |
| Summer 2015 | Zoo 7980/9095 | Research for Doctoral Dissertation: 3 students |
| Universidade do Algarve, Centro de Ciências do Mar (CCMAR; Faro Portugal) | | |
| June 2015 | | Introduction to Meta-analysis in Ecology (a short course open to students in the EU); co-taught with Joachim Claudet) |
| University of Georgia: | | |
| Summer 2015 | Ecol 9000 | Doctoral Research: 2 students |
| Fall 2015 | Ecol 8310 | Population and Community Ecology |
| | Ecol 9000 | Doctoral Research: 5 students |
| University of Florida: | | |
| Fall 2015 | Zoo 7980/7670 | Doctoral Research: 4 students |
| Spring 2016 | Zoo 7980/7670 | Doctoral Research: 3 students |
| University of Georgia: | | |
| Spring 2016 | Ecol 4960 | Undergraduate research: 5 students (2-3 credits each) |
| | Ecol 8050 | Lab group meeting |
| | Ecol 8990 | Problems in Ecology (Research Reviews) |
| | Ecol 9000 | Doctoral Research: 4 students |
| Stanford University (Hopkins Marine Laboratory) | | |
| Summer 2016 | Bios 246 | Introduction to meta-analysis (4 credits; a short course co-taught with Fio Micheli and Joachim Claudet) |
| University of Florida: | | |
| Summer 2016 | Zoo 7980 | Doctoral Research: 3 students |
| University of Georgia: | | |
| Summer 2016 | Ecol 9000 | Doctoral Research: 4 students |
| | Ecol 4960 | Undergraduate research: 1 student (4 credits) |
| Fall 2016 | Biol 4960 | Undergraduate research: 1 student (4 credits) |
| | Ecol 8000 | Topics in Modern Ecology (I designed and led the first 3-wk module) |
| | Ecol 8050 | Lab group meeting |
| | Ecol 8310 | Population and Community Ecology |
| | Ecol 9000 | Doctoral Research: 4 students |
| University of Florida: | | |
| Fall 2016 | Zoo 7980 | Doctoral Research: 3 students |
| Spring 2017 | Zoo 7980 | Doctoral Research: 3 students (21 credits) |
| University of Georgia: | | |
| Spring 2017 | Ecol 3500 | Ecology (co-taught with C. Murdock) |
| | Ecol 4960 | Undergraduate research: 3 students (2 credits each) |
| | Ecol 8050 | Lab group meeting: 4 students |
| | Ecol 8990 | Problems in Ecology (Research Reviews) |
| | Ecol 9000 | Doctoral Research: 3 students |
| | Ecol 9300 | Doctoral Dissertation: 2 students |
| Summer 2017 | Ecol 7000 | Masters Research: 1 student |
| | Ecol 9000 | Doctoral Research: 4 students |
| University of Florida: | | |
| Summer 2017 | Zoo 7980 | Doctoral Research: 2 students (9 credits) |

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| University of Georgia: Fall 2017 | Ecol 7000 | Masters Research: 1 student |
| | Ecol 8000 | Topics in Modern Ecology (I led the first 3-wk module) |
| | Ecol 8050 | Lab group meeting (1 student signed up; 8 participate) |
| | Ecol 8310 | Population and Community Ecology |
| | Ecol 9000 | Doctoral Research: 2 students |
| | Ecol 9300 | Doctoral Dissertation: 2 students |
| University of Florida: Fall 2017 | Zoo 7980 | Doctoral Research: 2 students (15 credits) |
| | Spring 2018 | Doctoral Research: 2 students (18 credits) |
| University of Georgia: Spring 2018 | INTS 4990 | Undergraduate research: 1 student (3 credits) |
| | Ecol 7000 | Masters Research: 1 student (8 credits) |
| | Ecol 8990 | Problems in Ecology (Research Reviews; 12 students; 2 credits@) |
| | Ecol 9000 | Doctoral Research: 4 students (43 credits) |
| | Ecol 9300 | Doctoral Dissertation: 1 student (9 credits) |
| | Summer 2018 | Ecol 7000 |
| | | Masters Research: 1 student (12 credits) |
| | | Ecol 7300 |
| | | Master's Thesis: 1 student (1 credit) |
| | | Ecol 9000 |
| | | Doctoral Research: 3 students (42 credits) |
| University of Florida: Summer 2018 | Zoo 7980 | Doctoral Research: 1 student (3 credits) |
| | Fall 2018 | Doctoral Research: 1 student (9 credits) |
| University of Georgia: Fall 2018 | Ecol 7000 | Masters Research: 1 student (11 credits) |
| | Ecol 8000 | Topics in Modern Ecology (I led the first 3-wk module) (14 students, 3 credits@) |
| | Ecol 8310 | Population and Community Ecology (14 students, 3 credits@) |
| | Ecol 9000 | Doctoral Research: 3 students (30 credits) |
| | Ecol 9300 | Doctoral Dissertation: 1 student (9 credits) |
| | Spring 2019 | Ecol 3500 |
| | | Ecology; co-taught with C. Murdock (95 students, 4 credits@) |
| | | Ecol 7000 |
| | | Master's research (1 student; 12 credits) |
| | | Ecol 7360 |
| | | Ecology teaching internship (1 student; 1 credit) |
| | | Ecol 8030 |
| | | Cross-disciplinary ecology (I supervised, but course led by A. Briggs; 6 students; 1 credit@) |
| | | Ecol 8990 |
| | | Problems in Ecology: Research Reviews (11 students; 2 credits@) |
| | | Ecol 9000 |
| | | Doctoral Research: 2 students (27 credits) |
| | | Ecol 9300 |
| | | Doctoral Dissertation: 1 student (17 credits) |
| University of Florida: Spring 2019 | Zoo 7980 | Doctoral Research: 1 student (9 credits) |
| | Summer 2019 | Doctoral Research: 1 student (6 credits) |
| Michigan State University (Kellogg Biology Station) | | |
| Summer 2019 | PLB 809 | Introduction to meta-analysis in ecology (a short course co-taught with Chao Song and Amy Briggs) as part of the ELME program (12 students; 1 credit@; 33 contact hours). |
| University of Georgia: Summer 2019 | Ecol 7300 | Master's Thesis: 1 student (12 credits) |
| | Ecol 9000 | Doctoral Research: 2 students (21 credits) |
| | Ecol 9300 | Doctoral Dissertation: 1 student (12 credits) |
| | Fall 2019 | Ecol 8000 |
| | | Topics in Modern Ecology (I led the first 3-wk module) (9 students, 3 credits@) |
| | | Ecol 8060 |
| | | Ecology Seminar (11 students; 1 credit@) |
| | | Ecol 8310 |
| | | Population and Community Ecology (10 students, 3 credits@) |
| | | Ecol 9000 |
| | | Doctoral Research: 1 student (16 credits) |
| | Ecol 9300 | Doctoral Dissertation: 2 students (27 credits) |

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| University of Florida: | | |
| Fall 2019 | Zoo 7980 | Doctoral Research: 1 student (9 credits) |
| Spring 2020 | Zoo 7980 | Doctoral Research: 1 student (9 credits) |
| University of Georgia: | | |
| Spring 2020 | Ecol 4960 | Undergraduate research: 1 student (3 credits) |
| | Ecol 8030 | Cross-disciplinary ecology (I supervised, but course led by R. Atkins; 19 students; 1 credit@) |
| Summer 2020 | Ecol 8060 | Ecology Seminar (11 students; 1 credit@) |
| | Ecol 8990 | Problems in Ecology: Research Reviews (12 students; 2 credits@) |
| | Ecol 7300 | Master's Thesis: 1 student (3 credits) |
| | Ecol 9000 | Doctoral Research: 1 student (11 credits) |
| | Ecol 9300 | Doctoral Dissertation: 2 students (25 credits) |
| | Ecol 4960 | Undergraduate research: 1 student (4 credits) |
| Fall 2020 | Ecol 9000 | Doctoral Research: 2 students (15 credits) |
| | Ecol 4960 | Undergraduate research (1 student, 2 credits) |
| Spring 2021 | Ecol 8000 | Topics in Modern Ecology (13 students, 3 credits@) (I led the first 3-wk module) |
| | Ecol 8060 | Ecology Seminar (36 students; 1 credit@) |
| | Ecol 8310 | Population and Community Ecology (19 students, 3 credits@) |
| | Ecol 9000 | Doctoral Research: 4 students (43 credits) |
| | Ecol 9300 | Doctoral Dissertation: 1 student (18 credits) |
| | Ecol 3500 | Ecology; co-taught with A. Injaian (124 students, 4 credits@) |
| | Ecol 4970 | Undergraduate Research II (1 student, 2 credits) |
| | Ecol 8030 | Cross-disciplinary ecology (I was instructor of record, but class was designed and led by A. Sharma; 16 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (25 students; 1 credit@) |
| | Ecol 9000 | Doctoral Research: (4 students; 31 credits) |
| Summer 2021 | Ecol 9300 | Doctoral Dissertation: (2 students; 21 credits) |
| | Ecol 9000 | Doctoral Research: (3 students; 36 credits) |
| Fall 2021 | Ecol 8060 | Ecology Seminar (26 students; 1 credit@) |
| | Ecol 8310 | Population and Community Ecology (9 students, 3 credits@) |
| Spring 2022 | Ecol 9000 | Doctoral Research (2 students; 20 credits) |
| | Ecol 9300 | Doctoral Dissertation (2 students; 33 credits) |
| Summer 2022 | Ecol 8030 | Cross-disciplinary ecology (I was instructor of record, but class was designed and led by M. Tomamichel; 8 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (18 students; 1 credit@) |
| | Ecol 8990 | Problems in Ecology: Research Reviews (9 students; 2 credits@) |
| | Ecol 9000 | Doctoral Research: (2 students; 25 credits) |
| | Ecol 9300 | Doctoral Dissertation: (2 student; 6 credits) |
| | Ecol 9000 | Doctoral Research: (4 students; 48 credits) |
| | Ecol 9300 | Doctoral Dissertation: (1 student; 12 credits) |
| Fall 2022 | Ecol 4970 | Undergraduate Research II (1 student, 3 credits) |
| | Ecol 4980 | Undergraduate Research III (1 student, 3 credits) |
| Spring 2023 | Ecol 8000 | Topics in Modern Ecology (13 students, 3 credits@) (I led the first 3-wk module) |
| | Ecol 8050 | Lab Group Meeting (2 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (23 students; 1 credit@) |
| | Ecol 8310 | Population and Community Ecology (13 students, 3 credits@) |
| | Ecol 9000 | Doctoral Research (4 students; 50 credits) |
| | Ecol 9300 | Doctoral Dissertation (2 students; 4 credits) |
| | Ecol 4990 | Undergraduate Thesis (1 student, 3 credits) |
| | Ecol 8030 | Cross-disciplinary ecology (I was instructor of record, but class was designed and led by J. Blaze; 8 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (22 students; 1 credit@) |

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| | Ecol 9000 | Doctoral Research: (4 students; 56 credits) |
| Summer 2023 | Ecol 9000 | Doctoral Research: (4 students; 54 credits) |
| Fall 2023 | Ecol 4960R | Undergraduate Research I (1 student, 3 credits) |
| | Ecol 7000 | Master's Research: (1 student, 5 credits) |
| | Ecol 8050 | Lab Group Meeting (1 student; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (30 students; 1 credit@) |
| | Ecol 8310 | Population and Community Ecology (13 students, 3 credits@) |
| | Ecol 9000 | Doctoral Research (5 students; 65 credits) |
| Spring 2024 | Ecol 4970 | Undergraduate Research II (1 student, 3 credits) |
| | Ecol 7000 | Master's Research: (1 student, 10 credits) |
| | Ecol 8050 | Lab Group Meeting (1 student; 1 credit@) |
| | Ecol 8030 | Cross-disciplinary ecology (I was instructor of record, but class was designed and led by K. Schroeder; 16 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (24 students; 1 credit@) |
| | Ecol 8990 | Research Reviews (12 students; 2 credits@) |
| Summer 2023 | Ecol 9000 | Doctoral Research: (4 students; 48 credits) |
| | Ecol 7000 | Masters Research (1 student; 12 credits) |
| | Ecol 9000 | Doctoral Research: (4 students; 48 credits) |
| Fall 2024 | Ecol 4960R | Undergraduate Research I (1 student, 2 credits) |
| | Ecol 4970R | Undergraduate Research II (1 student, 3 credits) |
| | Ecol 7000 | Master's Research: (1 student, 16 credits) |
| | Ecol 8000 | Topics in Modern Ecology (16 students, 4 credits@) (I led the first 3-wk module) |
| | Ecol 8060 | Ecology Seminar (28 students; 1 credit@) |
| | Ecol 8310 | Population and Community Ecology (11 students, 4 credits@) |
| | Ecol 9000 | Doctoral Research (4 students; 55 credits) |
| Spring 2025 | Ecol 4960 | Undergraduate Research I (4 students, 10 credits) |
| | Ecol 8050 | Lab Group Meeting (1 student; 1 credit@) |
| | Ecol 8030 | Cross-disciplinary ecology (I was instructor of record, but class was designed and led by C. Hovland; 10 students; 1 credit@) |
| | Ecol 8060 | Ecology Seminar (30 students; 1 credit@) |
| | Ecol 8990 | Research Reviews (16 students; 2 credits@) |
| | Ecol 9000 | Doctoral Research: (4 students; 53 credits) |