

CRAIG W. OSENBURG

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 is a Professor of 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 – 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, and the European Union. He and his students have published over 180 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

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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 Phone: 706-713-2051 FAX: 706-542-4819 E-mail: osenberg@uga.edu Web page: http://osenberglab.ecology.uga.edu
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Education

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 interaction strength) and its variation among organisms and environments.
- The roles of predation, competition and resource limitation in freshwater and marine ecosystems.

Academic Appointments

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

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.

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; 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 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:

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

2021-2024 University Appeals Committee
2020-2021 Slate Implementation Team (Graduate School)
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)
2018 Search Committee for Executive Assistant to the Dean (Admin Asst II), Odum School of Ecology
2017-2020 Graduate Council, UGA
2017-2019 Program Committee of the Graduate Council, UGA
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

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
1997-1999 University Minority Mentorship Program
1995-1996 Strategic Planning Committee, Zoology

Societies, Centers, funding agencies, and governmental agencies

2016-2019 Fellows Committee, Ecological Society of America
2012 Organizing Committee: *Trends in Ecological Analysis and Synthesis*. 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, 2nd International Conference on Marine Ornamentals.
- 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: *Meta-analysis, interaction strength and effect size: application of biological models to the synthesis of experimental data.*
- 1996 Review Panel -- charged with *Independent Technical Review of Studies by Southern California Edison on Impact to Kelp Resulting from the Operation of the San Onofre Nuclear Generating Station* (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, *Population Dynamics and Species Interactions: the Importance of Size- and Stage-Structure*, held at Annual Meeting of the Ecological Society of America, Honolulu, Hawaii (August 1992).
- 1992 Co-organizer of symposium, *The Design of Environmental Impact Assessment Studies: Conceptual Issues and Application*, held at Second International Temperate Reef Symposium, Auckland, New Zealand (January 1992).
- University of California, Berkeley (1992-1995):*
- 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
- Other academic institutions:*
- 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)

- 2020-2022 Trees Atlanta (a contract to support a MS student). \$51,645.
- 2019-2023 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.
- 2018-2024 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 \$84,348). Total award: \$6,762,000.

- 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 Noonberg, 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
- 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 *Vallisneria americana* 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 *Hyperolius* 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
- 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 *Oxyjulis californica* (Labridae)". \$3,000

Miscellaneous contracts

- 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)

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.
3. Osenberg, CW, EE Werner, GG Mittelbach, DJ Hall. 1988. Growth patterns in bluegill (*Lepomis macrochirus*) and pumpkinseed (*L. gibbosus*) sunfish: environmental variation and the importance of ontogenetic niche shifts. *Can. J. Fish. Aquat. Sci.* 45:17-26.
4. Osenberg, CW. 1988. Body size and the interaction of fish predation and food limitation in a freshwater snail community. Ph.D. dissertation, Michigan State University, East Lansing, Michigan. 272 pp.
5. Mittelbach, GG, CW Osenberg and MA Leibold. 1988. Trophic relations and ontogenetic niche shifts in aquatic ecosystems. Pages 219-235 *In: B. Ebenman and L. Persson (Eds.) Size-structured Populations: Ecology and Evolution*, Springer-Verlag, Berlin.
6. Osenberg, CW 1989. Resource limitation, competition and the influence of life history in a freshwater snail community. *Oecologia* 79:512-519.
7. Osenberg, CW and GG Mittelbach. 1989. The effects of body size on the predator-prey interaction between pumpkinseed sunfish and gastropods. *Ecological Monographs* 59:405-432.
8. Wainwright, PC, CW Osenberg and GG Mittelbach. 1991. Trophic polymorphism in the pumpkinseed sunfish (*Lepomis gibbosus*): effects of environment on ontogeny. *Functional Ecology* 5:40-55.
9. Wainwright, PC, GV Lauder, CW Osenberg and GG Mittelbach. 1991. The functional basis of intraspecific trophic diversification in sunfishes. Pages 2515-2529 *In: E. Dudley (Ed.) The Unity of Evolutionary Biology*, Dioscorides Press, Portland, OR.

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 the policy that 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.

10. Osenberg, CW, GG Mittelbach and PC Wainwright. 1992. Two-stage life histories in fish: the interaction between juvenile competition and adult performance. *Ecology* 73:255-267.
11. Mittelbach, GG, CW Osenberg, and PC Wainwright. 1992. Variation in resource abundance affects diet and feeding morphology in the pumpkinseed sunfish (*Lepomis gibbosus*). *Oecologia* 90:8-13.
12. Stewart-Oaten, A, JR Bence and CW Osenberg. 1992. Assessing effects of unreplicated perturbations: no simple solutions. *Ecology* 73:1396-1404.
13. Osenberg, CW, SJ Holbrook and RJ Schmitt. 1992. Implications for the design of environmental assessment studies. Pages 75-90 In P.M. Grifman and S.E. Yoder (eds.) *Perspectives on the Marine Environment*. USC Sea Grant, Los Angeles, California.
14. Krause^G, PR, CW Osenberg, RJ Schmitt. 1992. Effects of produced water on early life stages of a sea urchin: gender-specific responses and delayed expression. Pages 431-444 in J.P. Ray and F.R. Englehardt (eds.), *Produced water: technological/environmental issues and solutions*, Plenum Publishing Corp., New York.
15. Osenberg, CW, RJ Schmitt, SJ Holbrook and D Canestro. 1992. Spatial scale of ecological effects associated with an open coast discharge of produced water. Pages 387-402 in J.P. Ray and F.R. Englehardt (eds.), *Produced water: technological/environmental issues and solutions*, Plenum Publishing Corp., New York.
16. Mittelbach, GG, and CW Osenberg. 1993. Stage-structured interactions in bluegill: consequences of adult resource variation. *Ecology* 74:2381-2394.
17. Mittelbach, GG and CW Osenberg. 1994. Using foraging theory to study trophic interactions. Pages 45-59 in D.J. Stouder, K.L. Fresh, and R.J. Feller (eds.), *Theory and application in fish feeding ecology*, Belle W. Baruch Library in Marine Sciences, no. 18, University of South Carolina Press, Columbia, South Carolina.
18. Osenberg, CW, MH Olson^G, and GG Mittelbach. 1994. Stage structure in fishes: resource productivity and competition gradients. Pages 151-170 in D.J. Stouder, K.L. Fresh, and R.J. Feller (eds.), *Theory and application in fish feeding ecology*, Belle W. Baruch Library in Marine Sciences, no. 18, University of South Carolina Press, Columbia, South Carolina.
19. Osenberg, CW and RJ Schmitt. 1994. Detecting human impacts in marine habitats. *Ecological Applications* 4:1-2. (*)
20. Osenberg, CW, RJ Schmitt, SJ Holbrook, KE Abu-Saba^G, and AR Flegal. 1994. Detection of environmental impacts: natural variability, effect size, and power analysis. *Ecological Applications* 4:16-30.
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Other publications from my lab personnel²

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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.

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136. Vonesh^G JR. 2005. Sequential predator effects across three life stages of the African treefrog, *Hyperolius spinigularis*. *Oecologia* 143: 280-290.
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 - *Featured in: Science Daily:* <http://www.sciencedaily.com/releases/2012/03/120330164856.htm>
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169. 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.
170. 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.
171. 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.
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174. 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
175. 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.
176. Stier^G AC, AM Hein, V Parravicini, M Kulbicki. 2014. Larval dispersal drives trophic structure across Pacific coral reefs. *Nature Communications* 5. doi:10.1038/ncomms6575
177. 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
178. 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
179. 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
180. Gil^G, MA, J Zill^U, and JM Ponciano. 2017. Context-dependent landscape of fear: algal density elicits risky herbivory in a coral reef. *Ecology* 98:534-544. DOI: 10.1002/ecy.1668
181. 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

182. 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].
183. 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].
184. 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
185. Hamman^G, E.A. 2019. Spatial distribution of damage affects the healing, growth, and morphology of coral. *Oecologia* 191:621-629
186. 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.

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, *Ceraesignum 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, *Ceraesignum 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, *Ceraesignum 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 Pruit, 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.

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, Barcelon, 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.

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

1. "Assessment of ecological impacts in coastal waters". Workshop on "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 (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.

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.)
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	2013	University of Florida (co-Chair, Zoology; changed advisors in 2010)
Beasley, J.	PhD	2007-2010	—	University of Florida (co-Chair, Fish. & Aq. Sci.)-Withdrew Dec 2010.
Blohm, G.	MS	2007-2008	2008	University of Florida (co-Chair, Zoology)

³ Title of dissertation: "Habitat quality, competition, and recruitment processes in two marine gobies"; currently at staff scientist at National Marine Fisheries Service; previously a Knauss post-doctoral fellow at NMFS in 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 spingularis*"; currently 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*)"; currently an Associate 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"; currently a 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"; currently an 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.

⁸ Title of dissertation: "An evaluation of prior residency and habitat effects on the persistence of settling reef fishes"; Now the 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"; currently an 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.

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.	PhD	2015-202x	202x	University of Georgia (Chair, Ecology)
Atkins, R.	PhD	2015-202x	202x	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)

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

- 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):

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"; currently an 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"; went on to post-docs at Michigan State University and University of Tennessee (NIMBioS).

¹³ Title of dissertation: "Life in a colony: growth, morphology, and metabolic scaling"; currently a post-doc at Northeastern University (previously a post-doc at 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 starting Fall 2022; currently a post-doc at Woods Hole Oceanographic Institute; (previously a post-doc at the University of Florida).

¹⁵ Title of dissertation: "Chameleons in a changing climate"; currently a 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 somewhere in the Pacific Northwest.

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

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)
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
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	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	201x	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	202x	University of Georgia (Ecology/ICON); changed research topics.
Blaze, J.	Ph.D.	2019-202x	202x	University of Georgia (Ecology)
Tomczyk, N.	Ph.D.	2019-202x	202x	University of Georgia (Ecology)
Working, C.	M.S.	2020-2021	2021	University of Georgia ¹⁸
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.
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 student 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: Serpulidae)." Went on to PhD at UC Santa Cruz.
Schuster, Katya		2005-06		UF; went on to MS at University of North Florida.
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 CSU Monterey Bay, Moss Landing Marine Lab; PhD at SUNY Buffalo.
Unguari, Judit		2006		UF; went on to PhD program at UF.
Boonstra, Roxane		2007		UF; went on to MS at University of Miami.

¹⁸ Cece transferred to the Warnell School, reformed her committee, and graduated with an Masters in Natural Resources.

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 farmerfish 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 on to work at Florida Fish and Wildlife Commission / Nature Conservancy
Fuchs, Corine	2013-2015	UF; senior honors thesis: "Density of vermetid gastropods reduces their feeding rates"; USP scholar ¹⁹ ; went on to PhD program at UCSB and NSF GRFP.
Hackney, Noah	2013-2014	UF; USP scholar ²⁰
Michael Hartman	2013	UF; also worked as part of UF Teach program
Sipley, Breanna	2013	UF
Farrell, Morgan	2013-2016	UF; USP scholar ²¹ ; went on to MS at SFSU.
Rubin, Alissa	2013-2015	UF; USP scholar ²²
Bennet, Samantha	2015-2016	UGA
Miller, Catherine	2015-2016	UGA
Francis, Jordan	2015-2016	UGA
Zacharias, Margaret	2015-2018	UGA; CURO assistantship
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/UGA
Clancy (Chiu, Mei), Katherine	2016-2018	UGA (interdisciplinary honors thesis)
Pylant, Abigail	2016-2017	UGA
Mayes, Kelly	2016-2017	UGA
Skinner, Rachel	2016-2017	UGA
Potter, Elizabeth (Betsy)	2016-2017	UGA
Lacy, LuLu	2017-2018	UGA, CURO assistantship
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	2019-2020	UGA, CURO assistantship and CURO fellowship
Sycamore, Jennifer	2019-2020	UGA, CURO assistantship
Ellis, William	2019-2020	UGA, CURO assistantship
Freeze, Jestin (Jesse)	2020-2021	UGA

¹⁹ Received support from UF's University Scholars Program to conduct research in my laboratory.

²⁰ Received support from UF's University Scholars Program to conduct research in my laboratory (and TK Frazer's).

²¹ Received support from UF's University Scholars Program to conduct research in my laboratory (and TK Frazer's).

²² Received support from UF's University Scholars Program to conduct research in my laboratory (and TK Frazer's).

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 on 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).
Song, Chao	2018-2020	Michigan State University (supported by NSF grant that is collaborative between MSU and UGA; Dr. Song is based at MSU).
Hamman, Elizabeth	2019-2022	Tulane University (supported by NSF grant that is collaborative between Tulane, UCSB, and UGA; Dr. Hamman is based at Tulane)

Courses Taught

UC Santa Barbara (1988 - 1992):

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
	IB 299	Graduate Research
Fall 1994:	IB 153	Population and Community Ecology
	IB 251	Ecological Research Reviews
	IB 296	Special Study for Graduate Students
Spring 1995:		
	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:		
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)
	Zoo 6927	Research Reviews in Ecology and Evolution
Summer 1997:	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
	Zoo 7979/7671	Advanced Research
Spring 1999:	BSC 2011	Integrative Principles of Biology (Introductory biology for majors), 2 sections
	Zoo 6971/7675	Master's Research
	Zoo 7979/7674	Advanced Research
Summer 1999	Zoo 7979/8636	Advanced Research

Fall 1999	PCB 4044C	General Ecology (lecture and laboratory), 3 sections
	Zoo 6905	Individual Studies (graduate research)
	Zoo 6927/6071	Research Reviews in Ecology and Evolution
	Zoo 6971/7672	Master's Research
	Zoo 7979/7671	Advanced Research
Spring 2000:	(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
Spring 2001	PCB 4044C	General Ecology (lecture and laboratory), 3 sections
	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
Spring 2003	PCB 4044C	General Ecology (lecture and laboratory), 3 sections
	Zoo 6927/xxx	Integrative Principles (required graduate course)
	Zoo 6927/4884	Advanced Ecology
	Zoo 7979/7674	Advanced Research
	Zoo 7980/7673	Research for Doctoral Dissertation
Summer 2003	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:		
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
	Zoo 7980/7670	Research for Doctoral Dissertation
Spring 2007	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
	Zoo 7980	Research for Doctoral Dissertation
Spring 2008	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
	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)
	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
	Zoo 7980/7670	Research for Doctoral Dissertation: 2 students
University of Georgia:		
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)
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	Zoo 7980	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	Zoo 7980	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	Zoo 7980	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)
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@)
	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)
Summer 2020	Ecol 4960	Undergraduate research: 1 student (4 credits)
	Ecol 9000	Doctoral Research: 2 students (15 credits)
Fall 2020	Ecol 4960	Undergraduate research (1 student, 2 credits)
	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)
Spring 2021	Ecol 3500	Ecology; co-taught with A. Injain (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)
	Ecol 9300	Doctoral Dissertation: (2 students; 21 credits)
Summer 2021	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@)
	Ecol 9000	Doctoral Research (2 students; 20 credits)
	Ecol 9300	Doctoral Dissertation (2 students; 33 credits)