

JAMES E. BYERS

CURRICULUM VITAE

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EDUCATION

Ph.D. Ecology, University of California, Santa Barbara; 1994-1999.

B.S. Zoology (Honors and Departmental Distinction), Duke University; Durham, NC, 1992.

ACADEMIC POSITIONS

UGA Athletic Association Professor of Ecology, University of Georgia, 2022-present.

Josiah Meigs Distinguished Professor, University of Georgia, 2017-present.

Associate Dean for Administration and Research, Odum School of Ecology; University of Georgia, 2016-2020; 2021-present.

Professor, Odum School of Ecology; University of Georgia, 2013-present.

Associate Professor, Odum School of Ecology; University of Georgia, 2008-2013.

Visiting Senior Fellow, Dept. of Biological Sciences; University of Wollongong, Wollongong, Australia; and University of Technology Sydney, Sydney, Australia, 2007-08.

Associate Professor of Ecology, Dept. Zoology; University of New Hampshire, 2006-2008.

Assistant Professor of Ecology, Dept. Zoology; University of New Hampshire, 2001-2006.

Postdoctoral Fellow, Friday Harbor Marine Laboratories, University of Washington, 2000-2001.

HONORS

- Lothar Tresp Outstanding Honors Professor, University of Georgia, 2022
- Lamar Dodd Creative Research Award, recognizes an outstanding body of nationally and internationally recognized scholarly activities in the sciences, University of Georgia, 2022.
- Fellow, American Association for the Advancement of Science (AAAS), 2021.
- The Outstanding Graduate Mentoring Award, University of Georgia, 2019.
- Felton Jenkins, Jr. Hall of Fame Faculty Award, University System of Georgia, 2019. Superior commitment to teaching and student success, across all Georgia Universities.
- Fellow, Ecological Society of America (ESA), 2018
- Josiah Meigs Distinguished Teaching Professorship, University of Georgia, 2017.
- Outstanding Teacher Award, Odum School of Ecology, University of Georgia, 2017.
- UGA Teaching Academy Inductee, 2016.
- TEDxUGA Speaker, 2016. "Parasites: The Unlikely Heroes".
- The Outstanding Undergraduate Research Mentoring Award, Center for Undergraduate Research Opportunities, University of Georgia, 2015.
- Finalist for Outstanding Mentoring of Graduate Research Award, University of Georgia, 2015.

- Outstanding Teaching Award, First-Year Odyssey Seminar Program, Univ. of Georgia, 2014.
- Richard B. Russell Award for Excellence in Undergraduate Teaching, Univ. of Georgia, 2012.
- Outstanding Teacher Award, Odum School of Ecology, University of Georgia, 2011.
- Outstanding Teaching Award, College Life Science & Agriculture, Univ of New Hampshire, 2007
- Finalist, University-wide Outstanding Assistant Professor, University of New Hampshire, 2006.
- Class of 1937 Professorship in Marine Biology, University of New Hampshire, 2006-2008.
- Ellen Schamberg Burley Award in Biological Sciences, University of California, Santa Barbara, for Outstanding Graduate Research Achievement, Spring 1999.
- Best Student Paper Award-American Malacological Union/Western Society of Malacologists Joint Conference; Santa Barbara, CA, 1997
- Graduation with Departmental Distinction—Duke University, May 1992
- John Hope Franklin Documentary Award, Center for Documentary Studies, Durham, NC for Outstanding student documentary, 1992
- Dean’s List with Distinction, Duke University, 1990-91 and 1991-92
- National Merit Scholarship, Robert Byrd Scholarship, & Rotary Club Scholarship, Duke Univ., 1988
- High School Class Valedictorian

FELLOWSHIPS

- Visiting Research Fellow Award, University of New South Wales, Australia, 2018
- Fulbright Fellow, Pontificia Universidad Católica de Chile, 2017
- Institute for Conservation, University of Wollongong, Australia, 2007-08
- Visiting Scientist Award, University of Technology Sydney, Australia, 2007-08
- University of Washington/Friday Harbor Postdoctoral Fellowship, 2000-2001
- NSF Graduate Fellowship, 1995-1998
- University of California Special Regents Graduate Fellowship , 1994, 1999.
- University California, Santa Barbara Graduate Division Dissertation Fellowship, 1999
- University California, Santa Barbara General Affiliates Dissertation Fellowship, 1999

PROFESSIONAL EXPERIENCE

- Review Panelist*, NOAA Long Island Sound Study, New York & Connecticut Sea Grant, fall 2022.
- Review Panelist*, NSF Geosciences, Coastlines and People (CoPe), 2022.
- Review Panelist*, NSF Geosciences, Coastlines and People (CoPe), 2020.

Short-term Visiting Research Fellow, University of New South Wales, Sydney, Australia. Nov. 27-Dec.8, 2018

Invited Scientific Presenter, National Academy of Sciences, Research Council Committee on Interventions to Increase the Resilience of Coral Reefs. Charged to evaluate risks and benefits of interventions with potential to increase persistence of coral reefs, 2018.

Scientific Consultant, Australian Centre of Excellence for Biosecurity Risk Analysis to evaluate a spatial model for identifying high risk vessel biofouling pathways, 2015.

Invited Participant, UGA Future Leaders series, academic leadership development program, 2015.

Invited Scientific Participant, NSF Research Coordination Network (RCN). “The macroecology of infectious disease”. 2013-2020.

Review Panelist, NSF Biological Oceanography, 2012.

Invited Scientific Participant, Working group to synthesize the effects of climate change on marine bioinvasions. Sydney Institute of Marine Science, Australia. Jan. 2012.

Invited Scientific Participant, National Academy of Sciences Research Council Committee to Assess Numeric Limits for Living Organisms in Ballast Water. Advised US EPA & Coast Guard on environmentally protective ballast water discharge limits for the next Vessel General Permit, 2010-11.

Review Panelist, NOAA Virginia Sea Grant, fall 2010.

Graduate Program Coordinator, Odum School of Ecology; University of Georgia, 2009-2016.

Editorial Board for **Ecology Letters**, 2009-present.

Editorial Board for **Biological Invasions**, 2009-2014.

Invited Scientific Participant, Smithsonian-sponsored working group on marine biological invasions across latitude. Smithsonian Tropical Research Institute, Panama, Fall 2009.

Steering Committee, International Conference on Marine Bioinvasions. 2007-2018.

Invited Scientific Participant, NSF Research Coordination Network (RCN). “The ecology and evolution of invasions: a predictive framework and collaborative approach”. 2006-2011.

Invited Scientific Participant/Consultant, U.S. Environmental Protection Agency (EPA), 2006. Working group charged to recommend policy and regulations on aquatic invasive species, particularly in regards to the influence of propagule pressure on invasion success.

Co-PI & Project Leader of NCEAS working group. Habitat modification by ecosystem engineering species and effects on population and community dynamics. I co-edited a book compiling our efforts. National Center for Ecological Analysis & Synthesis, Santa Barbara, CA, 2004-07.

Review Panelist, Maine Sea Grant, fall 2004.

Advisor, Research Experience for Undergraduates (REU), Shoals Marine Laboratory. Summers 2002-09. Worked alongside undergrads to conduct and analyze marine ecology research. Six of these projects were developed into Senior Honors Theses and published in scientific journals.

Scientific Advisory Board, NOAA National Estuarine Research Reserves. One of 10 experts to help develop national monitoring program for estuarine invasive species. Pacific Grove, CA, 2002.

Participating Scientist, Puget Sound Exotic Species Rapid Assessment Survey. Sponsored by Sea Grant and Washington Dept. of Natural Resources to inventory non-native species, 2000.

Invited NCEAS Working group Participant. Synthesized how exotic species are studied and assessed the species' impact through meta-analysis and mathematical modeling, 1998-99.

Research Assistant with Dr. Hunter Lenihan on large-scale field experiment examining effects of marine pollution on benthic infaunal communities in Antarctica, fall 1998.

Predoctoral Fellow, NSF, Univ. of California, Santa Barbara 1994-1999.

Research Assistant with Dr. Charles H. Peterson. Effects of ecological variables on population regulation of Atlantic oyster. Univ. of North Carolina, Institute of Marine Sciences, 1993-94.

Assistant Editor for Vertices, a student-run journal of science at Duke University, 1991-1992.

Research Assistant with U.S. Forest Service. Quantified effects of disturbance and competition on bald eagle habitat use. West Yellowstone, MT, summer 1991.

Research Technician with team from Scripps Oceanographic Institute measuring seismology of earth's crust and internal wave components, R/V Cape Hatteras, fall 1990.

TEACHING EXPERIENCE

Over my career, I have taught more than 1600 undergraduates. My average evaluation by students across all courses taught is 4.81 (out of 5).

UNDERGRADUATE COURSES:

Ecology, 60-150 students, (taught 13 semesters). Writing-intensive course. Three hours of lecture/week, plus I designed lab exercises for course.

Ecology (Honors), 10-20 students, (taught 3 semesters). Deeper dive into Ecology. Highly interactive class.

Ecosystems of the World (Honors), 20 students, (taught 7 semesters). Salient aspects of world ecosystems reinforcing concepts in ecology and evolution, biodiversity & ecosystem functions.

Marine Biology, 30-40 students, (taught 3 semesters). Three hours of lecture/week, plus design and lead 2 lab sections/week.

Marine Ecology, 25 students, (taught 3 semesters). Joint undergraduate and graduate course. Six hours/week of intense field labs and some lecture; I co-designed and led lab exercises.

First Year Odyssey Seminar –The Ecology of Invasive Species. 15 students, (taught 11 semesters). Course to jump start freshmen into research.

First Year Odyssey Seminar –The Ecology of Campus. 17 students, (taught 2 semesters). Course to invigorate freshmen about the ecological networks of their new campus home.

Capstone Senior Seminar. 24 students, (taught 3 semesters). In-depth course for Ecology majors on synthetic, current topics in Ecology.

GRADUATE COURSES:

Community Ecology (in Spanish), 10 students, summer 2017. Intensive week-long field course. Taught in Chile. Co-instructor: S. Navarrete.

Graduate seminar in Population & Community Ecology, 5-15 students, (taught 10 semesters). Directed reading, discussion, and writing on classic literature in population ecology.

Graduate seminar in Cross-disciplinary Ecology, 15-25 students, (taught 6 semesters). Engage students in active discussion and presentation of cutting-edge topics in ecology.

Graduate seminar, Theoretical Ecology, 7 students, fall 2002. Directed discussion and modeling using Matlab to address topical issues in ecology. Co-led w/ J. Pringle, physical oceanographer

Conservation Ecology; 12 students, summer 2000, Friday Harbor Labs, Univ. of Washington. Intensive field course covering marine reserves, invasion biology, restoration, and quantitative analyses. Co-instructors: T. Klinger, J. Ruesink, M. Groom.

PEDAGOGY:

Co-facilitator, Faculty Learning Community, The Nexus of Teaching and Research, UGA, 2014-15.

Invited Lecturer—Feedback/Synthetic Exercises for a Dynamic/Interactive Classroom. Center for Teaching and Learning Speaker Series, Univ. of Georgia, spring 2015.

COURSES OF A SPECIAL NATURE:

UGA Costa Rica, Directed Exercises in Conservation Biology. 3.0 credit hours. Field-based study abroad course. Fall 2021, 2023.

Instructor/Advisor, Ecological Responses to Closed Fishing Zones, a Research Apprenticeship Program, Friday Harbor Labs, Univ. Washington, fall 2003. Guided 12 undergrads and post-bacs in experimental projects on effects of marine reserves on fish and invertebrate populations, species interactions and habitat structure.

Co-facilitator, Distributed graduate seminar to develop scientific foundations for Ecosystem Based Management in coastal systems, 2004-05. Guided students in data mining, analysis and publication. Final workshop at NCEAS synthesized 8 concurrent university seminars. Co-instructor: A. Rosenberg.

Facilitator, Honors Program Book Discussion, “Your Inner Fish”, UGA, fall 2014.

OTHER TEACHING EXPERIENCE:

Teaching Assistant, Methods in Aquatic Ecology; Univ. of Calif., Santa Barbara, 1996-98. Autonomously taught field laboratory course. Guided students in design and implementation of field experiments, followed by interactive development of their scientific writing skills.

High School Teacher of English and Agricultural Science. Genoveva German High School, Machachi, Ecuador, 1992-1993.

ADVISING

Currently: 2 Postdocs, 4 Ph.D. students, 5 undergrads

Completed graduate students (13 Ph.D, 3 M.S.) and their current positions:

John Meyer (M.S., 2005), 2006 NOAA John A. Knauss Marine Policy Fellow. Senior Director of Marketing & Communications, College of the Environment, Univ. of Washington.

Blaine Griffen (Ph.D., 2007), Assoc. Professor, Dept. of Biology, Brigham Young University.

Aaren Freeman (Ph.D., 2007), Professor, Dept of Biology, Adelphi University, NY.

April Blakeslee (Ph.D., 2007), Assoc. Professor, Dept of Biology, East Carolina University.

Laura Page (M.S., 2009), high school teacher, Dover, NH.

Irit Altman (Ph.D., 2009), Asst. Research Scientist at Boston University.

Wan-Jean Lee (Ph.D., 2012), awarded 2012 NOAA John A. Knauss Marine Policy Fellowship. Research scientist with the Environmental Protection Agency of Singapore.

William McDowell (Ph.D., 2014), Assoc. Professor, Dept of Biology, Merrimack University.

Virginia Schutte (Ph.D., 2014), Science Communication Specialist, Rowan University.

Jennafer Malek (Ph.D., 2015), awarded 2016 NOAA John A. Knauss Marine Policy Fellowship. Analyst with NOAA Marine Mammal Center.

Carolyn Keogh (Ph.D., 2016), Lecturer, Dept. of Environmental Sciences, Emory University.

Alyssa Gehman (Ph.D., 2016), awarded NSF postdoctoral fellowship, Univ. of British Columbia with Dr. Chris Harley.

Linsey Haram (Ph.D., 2018), AAAS Fellow at USDA.

Rachel Smith (Ph.D., 2019), Assistant Research Scientist, SONGS Mitigation Monitoring Program, Univ. California, Santa Barbara

Jeff Beauvais (Ph.D., 2023), awarded 2023 NOAA John A. Knauss Marine Policy Fellowship.

Kristen Zemaitis (M.S., 2023), environmental educator, Cumberland Is., GA.

Completed postdocs (6):

Lauren Pintor, 2011, Assoc. Professor, Dept of Biology, Ohio State University.

Heidi Weiksel, 2011, Ecologist with ELAW, environmental consulting firm on marine policy, Eugene, OR.

Safra Altman, 2012, Army Corp of Engineers, Vicksburg, MS.

Jayna DeVore, 2013, postdoc at the University of Sydney with Dr. Richard Shine.

Paula Pappalardo, 2015, Research Scientist at the Smithsonian Institute

Emlyn Resetarits, 2022, Assistant Professor, Dept of Biology, Barnard College, NY.

International Graduate students and Postdocs hosted in my lab (5):

Ronaldo Sousa (Portugal), summer 2006

Martina Ilarri (Portugal), summer 2011

Enjian Chen (China), 2017-18

Carolina Thornton (Chile), summer 2018

Sara Rodriguez, Postdoc, (Chile), 2020

Graduate Committee Member/Outside Examiner:

Apart from my own students, I have served on **18** PhD committees and **12** MS committees

Also, I have served as an International External Reviewer/Opponent (6):

Denise Bunting (PhD), Ross Coleman, advisor. School of Biological Sciences, University of Sydney, Australia. "Ecology, genetics and habitat use of the potentially invasive isopod *Cirolana harfordi*." 2011.

Riikka Puntila (PhD), Maiju Lehtiniemi & Henn Ojaveer, co-advisors. Biological and Environmental Sciences, University of Helsinki, Finland. External Opponent in the public defense of: "Trophic interactions and impacts of non-indigenous species in the Baltic Sea coastal ecosystems." 2016.

Luke Barrett (PhD), Steve Swearer, advisor. School of BioSciences, University of Melbourne, Australia. "Habitat preferences and fitness consequences for fauna associated with novel marine environments." 2018.

Danielle Denley (PhD), Anna Metaxas, advisor. Oceanography Department, Dalhousie University, Canada. "Population dynamics and persistence of an invasive species in kelp bed ecosystems in the northwest Atlantic Ocean." 2018.

Morgan Ellis (PhD), Craig Sherman and Ty Matthews, advisors. Marine Sciences Department, Deakin University, Geelong, Australia. "Invasive species ecology of the Northern Pacific Seastar (*Asterias amurensis*)" 2022.

Charlotte Clubley (PhD), Anthony Knights, advisor. School of Biological and Marine Sciences. University of Plymouth, England. "Testing environmental filters as mechanisms of ecosystem resilience to non-native species invasion." 2024.

Marcela Figueroa Campos. Co-sponsor: ¿Posible efecto "Spillback"?: Estudio de fauna enteroparasitaria del salmón chinook (*Oncorhynchus tshawytscha* Walbaum, 1792) en caleta La Barra, Toltén, la Araucanía, Chile". Universidad Austral, Valdivia, Chile.

Supervision of Undergraduate Research:

Currently: 10 Undergraduates working in lab (3 are working on Honors Theses).

Undergraduates supervised in research (113)

Undergraduate Honors Theses Supervised (21)

Funding for these students came from:

- NSF Research Experience for Undergraduates (REU) at the Shoals Marine Lab (6)
- Research Internship for Field Science (RIFS) Fellowship from Cornell University (1)
- University of New Hampshire International Research Opportunity Program (2)
- UGA Center for Undergraduate Research Opportunities (12)

I am presently a core participant in a site-based REU on the Ecology of infectious disease (led by John Drake and Sonia Altizer in Ecology) that involves faculty mentors across UGA.

The award started in summer 2013 and has sponsored 8-10 undergraduates each year in advanced research.

High School Students supervised in research (3):

High School Student, Samantha Spence, summer 2007

Young Dawg Rebecca Templeton, 2 years 2015-16, 2016-17

Young Dawg Will Ellis, 2018-19

PUBLICATIONS

Total Publications 152 | Total Citations 16,469 | h-index 61 (Google Scholar, December 2023)

(For papers through 2014, senior author is listed second, afterwards senior author is listed last.)

- van Rees, C. B., D. Hernandez-Abrams, M. Shudtz, R. Lammers, **J. E. Byers**, B. Bledsoe, M. V. Bilskie, J. Calabria, M. Chambers, E. Dolatowski, S. Ferreira, L. Naslund, N. Nibbelink, B. Suedel, A. Tritinger, C. B. Woodson, S. K. McKay, S. J. Wenger. Re-imagining infrastructure for a biodiverse future. 2023. **Proceedings National Academy of Sciences** 120(46): e2214334120. doi: 10.1073/pnas.2214334120
- Harris, R. D., J. A. Blaze, & J. E. Byers. 2023. Facilitation between two dominant ecosystem engineers extends their footprints and degree of overlap. **J. Experimental Marine Biology and Ecology** 568, 151944, <https://doi.org/10.1016/j.jembe.2023.151944>.
- Esser, E. A., J. M. Pringle, & J. E. Byers. 2023. Neither larval duration nor dispersal distance predict spatial genetic diversity in planktonic dispersing species. **Marine Ecology Progress Series** 721:161-167. doi.org/10.3354/meps14419
- Resetarits, E. and J. E. Byers. 2023. The role of small-scale environmental gradients on trematode infection. **Freshwater Biology** 68: 1453-1461. doi: 10.1111/fwb.14140
- Irwin, B., M. Tomamichel, M. Frischer, R. Hall, A. Davis, T. Bliss, P. Rohani, & J. E. Byers. (*in press*, 2023). Managing the threat of infectious disease in seafood using structured decision making. **Frontiers in Ecology and the Environment**.
- Byers, J. E. (*in press*, 2023). Using ecosystem engineers to enhance multiple ecosystem processes. **Functional Ecology**. <https://doi.org/10.1111/1365-2435.14130>
- Resetarits, E. J., W. T. Ellis, & J. E. Byers. 2023. The opposing roles of lethal and non-lethal effects of parasites on host resource consumption. **Ecology and Evolution** 13, e9973. <https://doi.org/10.1002/ece3.9973>.
- Byers, J. E., J. A. Blaze, A. C. Dodd, H. L. Hall, & P. E. Gribben. 2023. Exotic asphyxiation: interactions between invasive species and hypoxia. **Biological Reviews** 98: 150-167. <https://doi.org/10.1111/brv.12900>
- Beauvais, J., N. Nibbelink, & J. E. Byers. 2023. Differential equity in access to public and private coastal infrastructure in the Southeastern United States. **Ecological Applications** 33(5): e2770. doi: 10.1002/eap.2770
- Tomamichel, M. M., T. L. Walters, R. J. Hall, J. E. Byers, M. E. Frischer. 2023. A methodology to produce specific pathogen-free penaeid shrimp for use in empirical investigations of parasite ecology. **Journal of Shellfish Research** 42(1): 133-142. doi: 10.2983/035.042.0114
- Kinney, K. A., L. M. Pintor, A. C. Mell, & J. E. Byers. 2023. Density-dependent predation and predator preference for native prey may facilitate an invasive crab's escape from natural enemies. **Biological Invasions** 25: 2967-2976. doi: 10.1007/s10530-023-03085-5
- Suedel, B. C., J. Calabria, M. V. Bilskie, J. E. Byers, K. Broich, S. K. McKay, A. S. Tritinger, C. B. Woodson, & E. Dolatowski. 2022. Engineering coastal structures to centrally embrace biodiversity. **Journal of Environmental Management** 323: 116138. <https://doi.org/10.1016/j.jenvman.2022.116138>

- Li, F., C. Angelini, J. E. Byers, C. Christopher, & S. C. Pennings. 2022. Responses of a tidal freshwater marsh plant community to chronic and pulsed saline intrusion. **Journal of Ecology** 110(7): 1508-1524.
- Smith, R. S., J. Beauvais, & J. E. Byers. 2022. Traits of resident saltmarsh plants promote retention of range-expanding mangroves under specific tidal regimes. **Estuaries and Coasts** 45: 1422-1433. <https://doi.org/10.1007/s12237-021-01016-y>
- Rodríguez, S. M., J. E. Byers, F. Cerda-Aliaga, & N. Valdivia. 2022. Variation in helminth infection prevalence, abundance, and coinfection in an intermediate host across large spatial scale. **Marine Ecology Progress Series** 681: 103-116.
- Yarnall, A. H., J. E. Byers, L. A. Yeager, & F. J. Fodrie. 2022. Comparing edge and fragmentation effects within seagrass communities: a meta-analysis. **Ecology** 103(3): e3603.
- Byers, J. E. 2021. Marine parasites and disease in the era of global climate change. **Annual Review of Marine Science** 13: 397-420.
- Krueger-Hadfield, S. A., J. E. Byers, G. Bonthond, R. Terada, F. Weinberger, & E. E. Sotka. 2021. Intraspecific diversity and genetic structure in the widespread macroalga *Agarophyton vermiculophyllum*. **J. of Phycology** 57(5): 1403-1410.
- Gehman, A. M., M. Mahaffey, & J. E. Byers. 2021. Influences of land use and ecological variables on trematode prevalence and intensity at the salt marsh-upland ecotone. **Ecosphere** 12(8):e03723. doi: 10.1002/ecs2.3723.
- Firth, L. B., D. Harris, J.A. Blaze, M.P. Marzloff, A. Boyé, P.I. Miller, A. Curd, M. Vasquez, J.D. Nunn, N.E. O'Connor, A.M. Power, N. Mieszkowska, R.M. O'Riordan, M.T. Burrows, L.M. Bricheno, A.M. Knights, F.L.D. Nunes, F. Bordeyne, L.E. Bush, J. E. Byers, C. David, A.J. Davies, S.F. Dubois, H. Edwards, A. Foggo, L. Grant, J.A.M. Green, P.E. Gribben, F.P. Lima, D. McGrath, L.M.L.J. Noël, R. Seabra, C. Simkanin, S.J. Hawkins. 2021. Specific niche requirements underpin multidecadal range edge stability, but may introduce barriers for climate change adaptation. **Diversity and Distributions** 27: 668-683. doi: 10.1111/ddi.13224.
- Smith, R. S., J. A. Blaze, & J. E. Byers. 2021. Dead litter of resident species first facilitates and then inhibits sequential life stages of range-expanding species. **Journal of Ecology** 109: 1649-1664. doi: 10.1111/1365-2745.13538. (With cover).
- Rodríguez, S. M., K. Burgos, B. Gutiérrez, V. Escares, & J. E. Byers. 2020. First report of foraging behaviour on Pacific molecrabs (*Emerita analoga*) by dogs (*Canis lupus familiaris*) on the coast of Valdivia, Chile. **Gayana** 84(2): 158-162.
- Kimbrow, D. L., A. E. Scherer, J. E. Byers, J. H. Grabowski, A. R. Hughes, M. F. Piehler, & D. L. Smee. 2020. Environmental gradients influence biogeographic patterns of nonconsumptive predator effects on oysters. **Ecosphere** 11(10):e03260. doi: 10.1002/ecs2.3260.
- Alvarez-Noriega, M., S. C. Burgess, J. E. Byers, J. M. Pringle, J. P. Wares, & D. J. Marshall. 2020. Global biogeography of marine dispersal potential. **Nature Ecology & Evolution** 4: 1196-1203. doi: 10.1038/s41559-020-1238-y
- Byers, J. E. 2020. Effects of climate change on parasites and disease in estuarine and nearshore environments. **PLoS Biology** 18(11): e3000743. doi: 10.1371/journal.pbio.3000743

- Teitelbaum, C. S., C. R. Amoroso, S. Huang, T. J. Davies, J. Rushmore, J. M. Drake, P. R. Stephens, J. E. Byers, A. A. Majewska, & C. L. Nunn. 2020. A comparison of diversity estimators applied to a database of host-parasite associations. **Ecography** 43: 1316-1328. doi: 10.1111/ecog.05143
- Haram, L. E., E. E. Sotka, & J. E. Byers. 2020. Effects of novel, non-native detritus on decomposition and invertebrate community assemblage. **Marine Ecology Progress Series** 643: 49-61. doi: 10.3354/meps13335
- Smith, R. S., J. A. Blaze, & J. E. Byers. 2020. Negative indirect effects of hurricanes on recruitment of range-expanding mangroves. **Marine Ecology Progress Series** 644: 65-74. doi: 10.3354/meps13351
- Gribben, P. E. and J. E. Byers. 2020. Comparative biogeography of marine invaders across their native and introduced ranges. **Oceanography and Marine Biology: An Annual Review** 58: 395-440.
- Chen, E., J. A. Blaze, R. S. Smith, S. Peng, & J. E. Byers. 2020. Freeze-tolerance of poleward-spreading mangrove species weakened by soil properties of resident salt marsh competitor. **Journal of Ecology** 108: 1725-1737. doi: 10.1111/1365-2745.13350
- Wasson, K., R. A. Fabian, S. Fork, J. Stanganelli, Z. Mize, K. Beheshti, R. Jeppesen, I. Jones, C. J. Zabin, S. Walker, S. C. Lummis, M. Emery, J. D. Moore, C. Endris, D. Jolette, & J. E. Byers. 2020. Multiple factors contribute to the spatially variable and dramatic decline of an invasive snail in an estuary where it was long-established and phenomenally abundant. **Biological Invasions** 22: 1181–1202. doi: 10.1007/s10530-019-02172-w
- Gooding, E. L., M. R. Kendrick, J. F. Brunson, P. R. Kingsley-Smith, A. E. Fowler, M. E. Frischer, & J. E. Byers. 2020. Black gill increases the susceptibility of white shrimp, *Penaeus setiferus* (Linnaeus, 1767), to common estuarine predators. **J. Experimental Marine Biology and Ecology** 524: 151284. doi: 10.1016/j.jembe.2019.151284
- Keisling, C., R. D. Harris, J. Blaze, J. Coffin, & J. E. Byers. 2020. Low concentrations and low spatial variability of marine microplastics in oysters (*Crassostrea virginica*) in a rural Georgia estuary. **Marine Pollution Bulletin** 150: 110672. doi: 10.1016/j.marpolbul.2019.110672
- Grabowski, J. H., T. C. Gouhier, J. E. Byers, L. F. Dodd, A. R. Hughes, M. F. Piehler, & D. L. Kimbro. 2020. Regional environmental variation and local species interactions influence biogeographic structure on oyster reefs. **Ecology** 101(2): e02921. doi: 10.1002/ecy.2921
- Smith, R. S., T. Z. Osborne, I. C. Feller, & J. E. Byers. 2019. Detrital traits affect substitutability of a range-expanding foundation species across latitude. **Oikos** 128(9): 1367-1380. doi: 10.1111/oik.06149
- Byers, J. E., J.P. Schmidt, P. Pappalardo, S. Haas, & P. R. Stephens. 2019. What factors explain the geographic range of mammalian parasites? **Proceedings of the Royal Society B: Biol Sci.** 286: 20190673. doi: 10.1098/rspb.2019.0673
- Hughes, A. R., T. C. Hanley, J. E. Byers, J. H. Grabowski, T. McCrudden, M. F. Piehler, D. L. Kimbro. 2019. Genetic diversity and phenotypic variation within hatchery-produced oyster cohorts predict size and success in the field. **Ecological Applications** 29(6): e01940, 1158-1171. doi: 10.1002/eap.1940

- McDowell, W. G. and J. E. Byers. 2019. High abundance of a lone member of a functional guild gives an invasive species an outsized ecological role. **Freshwater Biology** 64: 577-586. doi: 10.1111/fwb.13243
- Sotka, E. E. and J. E. Byers. 2019. Not so fast. Promoting invasive species to enhance multifunctionality in a native ecosystem requires strong(er) scrutiny. **Biological Invasions** 21: 19-25. doi: 10.1007/s10530-018-1822-0
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- Byers, J. E. 2000. Effects of body size and resource availability on dispersal in a native and a non-native estuarine snail. **Journal of Experimental Marine Biology & Ecology** 248(2): 133-150.
- Byers, J. E. 2000. Differential susceptibility to hypoxia aids estuarine invasion. **Marine Ecology Progress Series** 203: 123-132.
- Byers, J. E. 1999. The distribution of an introduced mollusc and its role in the long-term demise of a native confamilial species. **Biological Invasions** 1(4): 339-353.

- Parker, I., D. Simberloff, M. Lonsdale, K. Goodell, M. Wonham, P. Kareiva, M. Williamson, B. Von Holle, P. Moyle, J. E. Byers, & L. Goldwasser. 1999. Impact: toward a framework for understanding the ecological effects of invaders. **Biological Invasions** 1(1): 3-19.
- Byers, J. E. 1993. Variations in the bioaccumulation of Zn, Cu, and Pb in *Crassostrea virginica* and *Ilyanassa obsoleta* in marinas and open water environments. **J. of the Elisha Mitchell Society**, 109:163-170.

PAPERS IN REVIEW:

- Altman, S., R. T. Kneib, & J. E. Byers. Landscape and habitat attributes that affect cross-ecotone species movement. **Oikos**.
- Tepolt, C. K., J. M. Pringle, A. M. H. Blakeslee, J. E. Byers, J. A. Darling, J. Roman. Introgression is key to modeling multiple introductions of European green crabs. **Theoretical Ecology**.
- Haram, L. E., K. Maddox, K. A. Kinney, D. Dumont, E. E. Sotka, & J. E. Byers. Non-native seaweed does not alter foraging preference of excavating predators in estuarine mudflats. **ICES Journal of Marine Science**.
- Fraser, D., K. M. Andrews, & J. E. Byers. Abundant and diverse terrestrial vertebrates cross the maritime forest-salt marsh ecotone. **Estuaries and Coasts**.
- Keogh, C. L., O. Miura, T. Nishimura, & J. E. Byers. Generalized immune traits and energy allocation do not differ in native versus invasive shore crab populations. **Biological Invasions**.
- Haram, L. E., K. A. Kinney, T. Montgomery, E. E. Sotka, & J. E. Byers. Non-uniform use of a novel, non-native seaweed by native consumers. **Biological Invasions**.
- Beauvais, J., S. N. Markley, & J. E. Byers. Exponential growth of private coastal infrastructure influenced by geography and race in South Carolina, USA. **Landscape Ecology**.
- Morton, J. P., M. J.S. Hensel, D. S. DeLaMater, C. Angelini, R. L. Atkins, K. D. Prince, S. L. Williams, A. D. Boyd, J. Parsons, E. J. Resetarits, C. Smith, S. Valdez, E. Monnet, R. Farhan, C. Mobilian, D. Smith, C. Craft, J. E. Byers, M. Alber, S. C. Pennings, B. R. Silliman. Mesopredator release moderates trophic control of plant biomass in a Georgia salt marsh. **Ecology**.
- Smith, R. S., S. C. Pennings, M. Alber, C. Craft, & J. E. Byers. The resistance of Georgia coastal marshes to hurricanes. **Ecosphere**.
- Meira, A., J. E. Byers, & R. Sousa. A global synthesis of predation on bivalves. **Biological Reviews**.
- Beauvais, J. and J. E. Byers. Influence of racial composition on the distribution of coastal armoring in South Carolina. **Estuaries and Coasts**.
- Coleman, D., R. Gittman, C. Landry, J. E. Byers, C. Alexander, G. Coughlin, C. Woodson. Quantifying the impacts of future shoreline modification on biodiversity. **Conservation Biology**.

Stanley, R. E., M. V. Bilskie, C. B. Woodson, & J. E. Byers. A model for understanding the effects of flow conditions on oyster reef development and impacts to wave attenuation. **Ecological Modelling**.

Ziegler, S. L., W. Atencio, J. M. Carroll, & J. E. Byers. Universally high parasite prevalence in an ecosystem engineer across a large spatial scale. **Oecologia**.

Tomamichel, M. M., K. I. Lowe, K. M. H. Arnold, M. E. Frischer, B. J. Irwin, C. W. Osenberg, R. J. Hall, & J. E. Byers. Does increasing temperature accentuate disease impacts on fisheries species? A meta-analysis. **Ecology Letters**.

BOOKS

K. Cuddington, J. E. Byers, W. Wilson and A. Hastings, editors. 2007. Ecosystem engineering: plants to protists. Academic Press.

TECHNICAL REPORTS

Cohen, A., H. Berry, C. Mills, D. Milne, K. Britton-Simmons, M. Wonham, D. Secord, J. Barkas, B. Bingham, B. Bookheim, **J. E. Byers**, J. Chapman, J. Cordell, B. Dumbauld, A. Fukuyama, L. Harris, A. Kohn, K. Li, T. Mumford, V. Radashevsky, A. Sewell, K. Welch. 2001. Washington state exotics expedition 2000: A rapid assessment survey of exotic species in the shallow waters of Elliott Bay, Totten and Eld Inlets, and Willapa Bay. Prepared for the Nearshore Habitat Program, Washington State Dept. of Natural Resources, Olympia, WA.

Carlton, J. T., G.M. Ruiz, **J. E. Byers**, A. Cangelosi, F. C. Dobbs, E. D. Grosholz, B. Leung, H. J. MacIsaac, M. J. Wonham. 2011. Assessing the relationship between propagules pressure and invasion risk in ballast water. National Research Council of the National Academy of Sciences. Washington, D. C.

PEER-REVIEWED NON-TECHNICAL REPORTS

Craft, C., E. Herbert, F. Li, D. Smith, J. Schubauer-Berigan, S. Widney, C. Angelini, S. Pennings, P. Medeiros, J. Byers, & M. Alber. 2016. Climate change and the fate of coastal wetlands. **Wetland Science & Practice** September: 70-73.

BOOK REVIEWS

Byers, J. E. 2001. The ecology of invasions by animals and plants. (Re-release). Charles S. Elton. Univ. of Chicago Press, 2000. **American Zoologist** 41(5): 1242.

GRANTS AND FELLOWSHIPS (Grants currently active shown in bold). Total = \$6.5 million

Extramural Grants:

NOAA, NERR Science Collaborative , Evaluating oyster reefs as habitat: Comparing the utility of ecological metrics to assess ecosystem function. PIs: Kimball, Dunn, Ziegler, Byers, Brugler, Carroll, Atencio, Eggleston, Bowling, Ellin, Guy, Dix (\$51K to UGA). Jan 2023. 1 year.	\$200,000
NOAA U.S. Coastal Research Program (USCRP) , Harnessing marsh spatial heterogeneity and hydroperiod for multiple benefits through community engagement, PIs: Bilskie, Byers, Risse, Woodson. 2023-26.	\$500,000
GA Dept. Nat. Resources , The influence of environmental factors in shrimp black gill: Management and fishery adaptation options? PIs Frischer, Byers. 2022-24.	\$100,000
GA Dept. Nat. Resources , Coastal Incentive Grant. Spatial & temporal patterns of disease in Georgia oyster reef habitat. 2021-2023.	\$160,000
NSF, Biol Oceanography , Collaborative Research: Improving quantification of larval dispersal in the global coastal ocean to understand the genetic structure, biogeography, and spread of benthic organisms. PIs Pringle, Byers. 2020-24. Amount listed is Byers portion; project total is \$849,879.	\$367,751
NOAA GA Sea Grant , Optimizing Georgia's Shrimp Fishery in the Age of Black Gill. PIs: Frischer, Byers, Hall, Johnsen. (2 yrs). 2020-2022.	\$149,337
NSF, LTER: Georgia Coastal Ecosystems-IV (OTF# 1838). Disturbance and predation effects on long-term salt marsh landscape level ecological processes. Contributing PI. Lead PI: M. Alber. (5 yrs). 2019-2024. Project total is \$6,762,000	\$ 91,770
NSF, REU site "Population biology of infectious diseases". Senior personnel. Lead PI: J. Drake. (8 yrs), 2013-16, plus a six-year renewal, 2017-2022.	\$623,700
NSF, NRT-DESE (Graduate Training Grant): <i>Infectious Disease Ecology Across Scales: from Byte to Benchtop to Biosphere</i> . Senior Affiliate, Co-author, Steering Committee member. Lead PI: V. Ezenwa. 2016-2021. Project total is \$ 2,900,000	\$174,000
NOAA GA Sea Grant , Shrimp black gill in Georgia. PIs: Frischer, Byers, Lee, Johnsen. (2 yrs). 2018-2020.	\$209,657
GA Dept. Nat. Resources , Coastal Incentive Grant. Black gill in the Southeast shrimp fishery. PIs: Frischer, Byers, Fowler, Geer. 2016-2018.	\$113,362
NOAA GA Sea Grant , Oyster and salt marsh edge interactions: Informing living shoreline and oyster restoration design; (2 yrs). 2016-2018.	\$130,891
NSF, LTER: Georgia Coastal Ecosystems-III (OTF# 1838). Landscape level effects on marsh-upland ecotone function and value. Lead PI: M. Alber. (5 yrs). 2013- 2018. Project total is \$ 5,880,000	\$ 50,400
NOAA GA Sea Grant , Black gill in Georgia shrimp: causes and consequences; PIs: Frischer, Lee, Byers, Johnsen. (2 yrs). 2016-2018.	\$140,000

Australian Research Council, Discovery Projects, Integrating ecosystem engineering and trophic effects on food webs across fluctuating abiotic gradients. PIs: Wright, Byers, Gribben, Johnson. (3 yrs). 2013-16.	\$375,354 (AUD)
NOAA Estuarine Reserves Division, Effects of eutrophication on the conversion of essential estuarine habitat in the South Atlantic Bight (3 yrs). 2012-2015	\$ 60,000
NSF, Biological Oceanography, Collaborative Research: Cascading effects of an invasive seaweed on estuarine food webs of the southeastern US. PIs: Byers, Sotka. (3 yrs. plus 2 no-cost extensions). 2011-16. Amount listed is Byers' portion of project; Project total is \$515,521	\$250,107
NSF, Catalyzing New International Collaborations, How does habitat structure influence parasitism and predation in tropical estuaries? PIs: Byers, Torchin, Lopez. (1 yr). 2014-15.	\$ 38,577
NSF, Biological Oceanography, Collaborative Research: Evaluating Marine Clines to Predict Larval Retention. PIs: J. Wares, J. Byers, J. Pringle. (3yrs). 2010-2013. Amount listed is UGa portion of project; Project total is \$458,045	\$385,064
NSF, Biological Oceanography, Collaborative Research: A mechanistic understanding of biogeographic patterns and life histories in benthic organisms in advective coastal environments. PIs: Pringle, Byers, Wares. (3 yrs). 2010-2013. Amount listed is UGa portion of project; Project total is \$495,901	\$263,793
NSF, Biological Oceanography, Collaborative Research: the influence of predators on community structure and resultant ecosystem functioning at a biogeographic scale. PIs: Kimbro, Hughes, Byers, Grabowski, Phieler. (3 yrs). 2010-2013. Amount listed is Byers' portion of project; Project total is \$850,342.	\$253,296
NSF, Biological Oceanography, REU Supplement for the above grant (1 yr). 2012-13.	\$ 8,565
NOAA Georgia Sea Grant, Controls on effectiveness of reef filtration.(2 yrs).2011-13	\$ 10,000
NOAA Georgia Sea Grant, Using landscape interfaces and ecological activity to determine zones of influence on tidal marshes by upland development in Georgia. PIs: Kneib and Byers. (3 yrs). Mar 2010-Feb 2013	\$132,641
NOAA Estuarine Reserves Division, Effects of nutrient pollution on mangrove ecosystem functioning (3 yrs). 2010-2013	\$ 60,000
Georgia Department of Natural Resources, State Wildlife Grants Research Spread and ecological impacts of the invasive apple snail (<i>Pomacea insularum</i>). PIs: S. Wilde, J. Byers (1.5yrs). 2010-2011. Amount listed is Byers' portion of project; Project total is \$98,669	\$ 47,138
Portuguese Ministry of Science, Processes influencing the invasive behaviour of the non-indigenous species <i>Corbicula fluminea</i> (Mollusca: Bivalvia) in estuaries – identification of genetic and environmental key factors (NISTRACKS). Lead PIs: L. Guilhermino and Ronaldo Sousa. (3 yrs). 2009-2012	\$198,767 (Euros)
NOAA NH Seagrant, Impacts of <i>in situ</i> Treatment of Contaminated Sediments on the Benthic Communities of the Cocheco River, New Hampshire. PIs: Gardner and Byers. (2 yrs) 2008-2010.	\$130,000

NOAA Estuarine Reserves Division, Engineering through disturbance: The role of horseshoe crabs (<i>Limulus polyphemus</i>) on soft-sediment communities in Great Bay, NH (3 yrs). 2007-2010.	\$ 40,000
NSF Research Coordination Network (RCN). The ecology and evolution of invasions: a predictive framework and collaborative approach. (Senior personnel / Core Participant). Lead PIs: Ruth Hufbauer, Mark Torchin. (5 yrs). 2005-2010.	\$500,091
NOAA NH Seagrant, Impacts of horseshoe crab (<i>Limulus polyphemus</i>) foraging on soft-sediment communities. (1 yr.) 2010.	\$ 7,000
National Geographic Society, Committee for Research and Exploration. Impacts of the invasive alga, <i>Caulerpa taxifolia</i> , on native ecological communities (1 yr). 2007-8	\$ 20,006
Sloan Foundation, Census of Marine Life, Invasive Species Trouble Spots: Tracking the Spread of European Green Crabs in the Gulf of Maine from an Upstream Retention Zone. PIs: Byers, Pringle, Roman. July 2007-08.	\$ 21,397
USDA Hatch Grant, "Influences of trematode parasites on the ecology of nearshore marine communities" (6 yrs). 2002-2008.	\$ 73,000
NOAA Cooperative Institute for New England Mariculture and Fisheries (CINEMar), "The effect of fishery closure on trophic structure: assessing the efficacy of a marine protected area". Part of a multidisciplinary project: "Monitoring Marine Protected Areas: An Intensive study of the Western Gulf of Maine Closure Area". PIs: Rosenberg, Grizzle, Berlinsky, Byers , Lesser, Mayer, Morrison, Robertson, Ward. 2003-07. Amount listed is Byers' portion; Project total = \$2.1 million.	\$343,197
NOAA NH Sea Grant, "Larval Trematode Communities as Indicators of Wetland Ecosystem Health"; Byers, M. Torchin, T. Huspeni, Co-PIs (2 yrs). 2004-2006.	\$138,600
USDA Hatch Pilot Funds. The home ranges and habitat preferences of commercially and ecologically significant marine finfish and shellfish. Watson, Howell, Berlinsky, Byers, Mayer, Co-PIs. (1 yr). 2006.	\$ 10,000
NSF National Center for Ecological Analysis and Synthesis (NCEAS). Funded working group, "Habitat modification in conservation problems: modeling invasive ecosystem engineers"; Byers & Cuddington, Co-PIs (2 yrs). 2005-7	\$ 61,000
NSF, OCE-Bio Oceanography, Small Grant for Exploratory Research (SGER). "Using parasites to discern the ecological history and community interactions of a cryptogenic marine snail, <i>Littorina littorea</i> ". (1yr). 2005.	\$ 76,000
EPA New Hampshire Estuaries Program (NHEP) "Environmental indicator development: Marine invasive species; spatial patterns of marine larvae as indicators of incipient invasions in Great Bay, NH"; J. Byers, B. Griffen, B. Smith, Co-PIs. (1 yr). 2005.	\$ 29,000
NOAA Estuarine Reserves Division, "Ecology of phenotypic plasticity in blue mussels" (3 yrs). 2003-2006.	\$ 52,500
NOAA National Estuarine Research Reserve System, System-wide bio-monitoring: Patterns and processes in benthic community development. Spatial and temporal	\$ 27,000

dynamics of larvae of estuarine species in Great Bay, NH (2yrs). 2003-04.	
Marine Ecosystem Health Program, Wildlife Health Center, UC Davis, Do marine reserves safeguard native species from impacts of non-native invasive species? 2000	\$ 19,777
Washington Sea Grant, The impact of non-indigenous clams on native species. 2000.	\$ 15,000
NOAA National Estuarine Graduate Research Grant (2 yrs)	\$ 33,000
Sea Grant/National Wildlife Foundation Nonindigenous Species Graduate Research Grant (1 yr)	\$ 15,000
Mildred Mathius Research Grant	\$ 1,600
Lerner Gray Fund for Marine Research, American Museum of Natural History	\$ 800
Conchologists of America	\$ 700
American Malacological Union	\$ 500
Western Society of Malacologists	\$ 250

Intramural Grants:

Office of the President Interdisciplinary Seed Grant , UGA, “Mitigating emerging disease impacts in fisheries: Adaptive strategies to ensure a safe, healthy seafood supply”; J. Byers, lead PI. Frischer, Hall, co-PIs. 2019-2020	\$127,403
Office of the Provost Summer Research Award, UGA, 2012	\$ 5,000
Faculty Development Grant (2007-08), Center for International Education, UNH	\$ 1,500
Faculty Research Fellowship, Graduate School, UNH	\$ 4,625
Vice President for Research Discretionary Research/Scholarship Program, UNH	\$ 7,678
Center for Marine Biology Travel Grant, UNH (2 yrs)	\$ 735
UC Regents Departmental Block Grant, UCSB	\$ 1,300
Ellen Schamberg Burley Award, UCSB	\$ 700
Departmental Travel Grant, UCSB	\$ 825

Fellowships:

Visiting Research Fellow Award, University of New South Wales, Australia, 2018	\$ 5,800
Fulbright Fellow, Pontificia Universidad Católica de Chile, 2017	\$ 20,000
Institute for Conservation, University of Wollongong. 2007-08	\$ 1,000
Visiting Scientist Award, University of Technology Sydney. 2007-08	\$ 4,000
University of Washington/Friday Harbor Postdoctoral Fellowship (2 yrs.)	\$ 64,000
NSF Graduate Fellowship (3 yrs.)	\$ 72,300
University of California Special Regents Graduate Fellowship (2 yrs.)	\$ 42,000
University California, Santa Barbara Graduate Division Dissertation Fellowship (1 qtr.)	\$ 7,000
University California, Santa Barbara General Affiliates Dissertation Fellowship (1 qtr.)	\$ 3,000

PENDING GRANTS

INVITED TALKS

1. Keynote and Plenary Addresses (6)

- 2022: Plenary Speaker: Ecology, Status and Conservation of the Diamondback Terrapin Conference, Athens, GA
- 2019: Keynote Address: Symposium on Coastal Ecology and Biodiversity. Fudan University, Shanghai, China.
- 2016: Keynote Address Invitation. (declined due to scheduling conflicts). Marine and Freshwater Invasive Species conference, Buenos Aires, Argentina.
- 2009: Keynote Address: World Conference on Biological Invasions and Ecosystem Functioning (BIOLIEF), Porto, Portugal
- 2009: Keynote Address: Conference of the Canadian Aquatic Invasive Species Network, Halifax, Nova Scotia
- 2007: Plenary Speaker: 5th International Conference on Marine Bioinvasions, Cambridge, Massachusetts.

2. Invited talks at conferences and symposia (15)

- 2023: USDA Workshop: The current and future impact of invasive apple snails (*Pomacea maculata*) on aquaculture, crop production, and human health. Virtual.
- 2022: State Marine Aquaculture Coordinators Network (SMACN), Athens, GA
- 2021: Georgia Climate Conference, Jekyll Island, GA.
- 2021: Invited Symposium Convener and Speaker: Coastal Invasion and its Impacts on Ecosystem Services. Int'l Symposium on Coastal Ecosystems & Global Change. Xiamen, China.
- 2018: National Academy of Sciences, Workshop Speaker: Interventions to Increase the Resilience of Coral Reefs. University of Hawaii, Manoa
- 2012: Invited Speaker and Panelist: The Red Clay Environmental Law Conference, Athens, GA (The largest environmental law conference in the Southeastern US)
- 2012: Gulf and South Atlantic States Shellfish Conference, Savannah, GA
- 2011: ESA Symposium: Invasive species with cross-border spread: negotiating the international divide, Austin, Texas
- 2011: Georgia Association of Marine Educators Conference, Skidaway Island, GA
- 2009: Marine Invasion Conference. Smithsonian Tropical Research Institute, Panama City, Panama
- 2007: EPA Symposium: The link between propagule pressure and aquatic nonnative invasion success and impacts, Washington D.C.
- 2007: New Hampshire Estuaries Program, State of the Estuaries Conference, Portsmouth, NH
- 2006: Symposium: State of Marine Ecology in the Gulf of Maine, Coastal Studies Center, Bowdoin College, ME
- 2002: Western Society of Malacologists, Symposium: Population and community ecology of molluscs; Alisomar, CA
- 2000: Western Society of Malacologists, Symposium: Invasive molluscs: Environmental & conservation impacts; CA State Fullerton

3. Invited talks at universities (69)

- 2022-23 Georgia Coastal Research Council, Coastal Georgia Colloquium, Savannah, GA
- 2021-22 Austral University, Institute of Marine Sciences & Limnology, Valdivia, Chile
(virtual)
- 2020-21 East Carolina University, Dept. of Biology (virtual)
- 2018-19 University of New South Wales, Sydney, Australia. School of Biological, Earth & Environmental Sciences
- 2017-18 Dalhousie University, Dept. of Oceanography, Halifax, Nova Scotia, Canada
- 2016-17 University of Helsinki, Finland, Dept. of Biological and Environmental Sciences
Pontificia Universidad Católica, Coastal Marine Station (ECIM), Las Cruces, Chile
Pontificia Universidad Católica, Dept. of Biology, Santiago, Chile
- 2015-16 Austral University, Institute of Marine Sciences & Limnology, Valdivia, Chile
Cary Institute of Ecosystem Studies
Cornell University, Shoals Marine Laboratory
University of North Carolina, Institute of Marine Sciences
TEDxUGA, Athens, GA. “Parasites: The Unlikely Heroes”
- 2014-15 Smithsonian Tropical Research Institute, Panama City, Panama
College of Charleston, Fort Johnson Marine Science Seminar Series
- 2013-14 Skidaway Institute of Oceanography, Savannah, Georgia
Macquarie University, Sydney, Australia. Dept. of Biology
University of Melbourne, Department of Zoology
Emory University, Population Biology, Ecology, & Evolution Program
- 2012-13 Joseph W. Jones Ecological Research Center, Ichauway, GA
- 2011-12 Georgia Tech, Dept. of Biology
University of North Carolina at Asheville, Dept. of Biology
Georgia Coastal Research Council, Coastal Georgia Colloquium, Savannah, GA
Sydney Institute of Marine Science, Sydney, Australia
- 2010-11 Georgia Southern University, Dept. of Biology
California State University, Fullerton, Dept. of Biological Science
University of Alabama, Birmingham, Dept. of Biology
- 2009-10 Scripps Institute of Oceanography, La Jolla, CA
University of San Diego, Department of Marine Science
Emory University, Department of Environmental Studies
University of South Carolina, Program of Marine Sciences
Auburn University, Departments of Fisheries and Aquaculture, Auburn AL
University of Georgia, Department of Marine Sciences
Clemson University, Dept. of Biology
- 2008-09 University of California at Davis, Ecology/Evolution Group
Bodega Marine Lab, Bodega Bay, CA

- Florida Atlantic University, Department of Biological Sciences, Boca Raton, FL
 University of Georgia, Department of Marine Sciences
 University of Georgia, Ecology of Infectious Disease Lecture Series
- 2007-08 University of New South Wales, Sydney, Australia. School of Biological, Earth & Environmental Sciences
 Skidaway Institute of Oceanography, Savannah, Georgia
 University of Georgia, Odum School of Ecology
 University of Wollongong, Australia. Dept. of Biological Sciences
 University of Technology, Sydney, Australia. Dept. of Environmental Sciences
 CSIRO (Commonwealth Scientific & Industrial Research Organisation), Canberra, Australia
- 2006-07 National Marine Fisheries Service, Fisheries Science Center, Woods Hole, MA
 Boston University, Marine Program
 Northeastern University, Boston, MA, Dept. of Biology
- 2005-06 University of Massachusetts at Boston, Dept. of Biology
- 2004-05 Smithsonian Environmental Research Center, Edgewater, MD
 State University of New York at Stony Brook, Dept. of Ecology & Evolution
 University of Florida, Dept. of Zoology
 University of Richmond, Dept. of Biology
- 2003-04 Spring Island Trust, Non-profit Environmental Outreach Center, Bluffton, SC
 Boston University Marine Program—Marine Biological Lab, Woods Hole, MA
 East-West Marine Biology Program, Marine Science Center, Northeastern Univ.
 University of North Carolina, Department of Biology
- 2002-03 Pennsylvania State University, Invited Speaker by the Ecology Graduate Students
 University of Toronto, Dept. of Zoology
 Bowdoin College, Brunswick, ME, Dept. of Biology
 Clark University, Worcester, MA, Dept. of Biology
- 2001-02 University of Rhode Island, Dept. Biological Sciences
 Colorado State University, Colloquium in Life Sciences
 Brown University, Dept. of Ecology and Evolutionary Biology
 Shoals Marine Laboratory
- 2000-01 University of Washington, Dept. Zoology
- 1999-00 Dartmouth College, Dept. of Biological Sciences
 University of New Hampshire, Dept. of Zoology
 Friday Harbor Laboratories

Contributed Papers at National and International Scientific Meetings (129)

Including especially: Ecological Society of America, Western Society of Naturalists, Benthic Ecology Meetings, International Conference on Marine Bioinvasions, Neobiota

Coastal & Estuarine Research Federation (CERF), Portland, OR, 2023 (co-author on 3 presentations).

Evolution, Albuquerque, NM 2023 (poster, co-author).

Ecological Society of America (ESA), Portland, OR, August 2023 (co-author).

Benthic Ecology Meetings, Miami, FL April 2023 (co-author on 5 other presentations).

Georgia Coastal Research Council (GCRC) Colloquium, Richmond Hill, GA, Oct. 2022.

Georgia Coastal Research Council, Virtual, Oct. 2020.

Session Chair and Presenter, Western Society of Naturalists, Virtual, Nov. 2020

Session Chair and Presenter, Intertidal Ecology Contributed Session, Western Society of Naturalists, Tacoma, WA, Nov. 2018.

Ecological Society of America (ESA), New Orleans, August 2018 (co-author).

Session Chair and Presenter, Community Ecology Contributed Session, Benthic Ecology Meetings, Corpus Christi, TX, March 2018 (co-author on 4 other presentations).

Benthic Ecology Meetings, Myrtle Beach, SC April 2017 (co-author on 3 presentations).

Western Society of Naturalists, Monterey, CA, Nov. 2016 (co-author on 2 other presentations).

Ecological Society of America (ESA), Fort Lauderdale, FL, Aug. 2016 (co-author on 3 presentations).

Benthic Ecology Meetings, Portland, ME, March 2016 (co-author on 3 presentations).

Evolution, Austin, TX 2016 (co-author).

International Conference on Marine Bioinvasions, Sydney, Australia, January 2016 (co-author).

Ecological Society of America (ESA), Baltimore, MD, August 2015

Session Chair and Presenter, Biological Invasions Contributed Session, Benthic Ecology Meetings, Quebec, Canada, March 2015. (co-author on 3 other presentations).

Ecological Society of America (ESA), Sacramento, CA, August 2014 (co-author on 2 presentations).

Joint Aquatic Sciences Meeting, Portland OR, May 2014. (co-author).

Session Chair and Presenter, Ecosystem Functioning Contributed Session, Benthic Ecology Meetings, Jacksonville, FL, March 2014. (co-author on 2 other presentations).

Ecological Society of America (ESA), Minneapolis, MN, August 2013 (co-author).

Session Chair and Presenter, Ecosystem Functioning Contributed Session, Benthic Ecology Meetings, Savannah, GA, March 2013. (co-author on 8 other presentations).

Neobiota: 7th European Conference on Biological Invasions, Pontevedra, Spain, Sept. 2012. (co-author on 1 other presentation).

Symposium: Invasive species with cross-border spread: negotiating the international divide. Ecological Society of America (ESA), Austin, TX, August 2011.

Session Chair and Presenter, Invasive Species Contributed Session, Benthic Ecology Meetings, Mobile, AL, March 2011. (co-author on 1 other presentation).

Benthic Ecology Meetings, Wilmington, NC, March 2010. (co-author on 3 other presentations).

Tropical Marine Invasions Workshop, Smithsonian Tropical Research Institute, Panama, Nov 2009

Session Chair and Presenter, International Conference on Marine Bioinvasions, Portland, OR, August 2009 (co-author on 5 other presentations).

Canadian Aquatic Invasive Species Network Conference, Halifax, Nova Scotia, May 2009

Neobiota: 5th European Conference on Biological Invasions, Prague, Czech Republic, Sept. 2008

Benthic Ecology Meetings, Providence, RI, April 2008 (co-author on 7 presentations)

International Invasive Sea Squirt Conference, Prince Edward Island, Canada, Oct 2007 (co-author)

Organized Oral Session: The Behavior of Invasions: Is there a path from mechanism to prediction?, Ecological Society of America (ESA), San Jose, CA, August 2007 (co-author).

International Conference on Marine Bioinvasions, Cambridge, MA, May 2007. (co-author on 3 other presentations).

Benthic Ecology Meetings, Atlanta, GA, March 2007. (co-author on 4 other presentations).

Western Society of Naturalists (WSN), Redmond, WA, Nov. 2006 (co-author).

Society for Conservation Biology (SCB), San Jose, CA, June 2006 (co-author).

Session Chair and Presenter, Community Ecology Contributed Session, Benthic Ecology Meetings, Quebec, Canada, March 2006. (co-author on 3 other presentations).

American Society of Limnology & Oceanography (ASLO), Honolulu, HI, Feb 2006 (co-author on 2 presentations).

Session Chair and Presenter, “Marine Ecology: Disturbance, dispersal, recruitment” Contributed Session, Ecological Society of America (ESA), Montreal, Canada. August 2005.

Session Chair and Presenter, Parasite-Host Interactions Contributed Session, Benthic Ecology Meetings, Williamsburg, VA, April 2005. (co-author on 4 other presentations).

International Invasive Sea Squirt Conference. Woods Hole, MA, April 2005. (co-author).

American Society of Limnology & Oceanography (ASLO), Salt Lake City, UT, Feb. 2005 (co-author).

Society for Integrative and Comparative Biology (SICB), San Deigo, CA, Jan. 2005 (co-author).

International Council for Exploration of the Sea (ICES), Vigo, Spain, Sept. 2004 (co-author).

Joint meeting of Int’l Environmetrics Society & Int’l Symposium on Spatial Accuracy Assessment in Natural Resources & Environmental Sciences, Portland, ME, June 2004. (co-author).

Benthic Ecology Meetings, Mobile, AL, March 2004 (co-author).

Ecological Society of America (ESA), Savannah, GA, August 2003.

International Conference on Marine Bioinvasions, San Diego, CA, March 2003. (co-author)

Session Chair and Presenter, Marine Diseases and Parasites Contributed Session, Benthic Ecology Meetings, Groton, CT, March 2003.

Ecological Society of America (ESA), Madison, WI, August 2001.

International Conference on Marine Bioinvasions, New Orleans, LA, April 2001.

Marine Benthic Ecology Conference, Durham, NH, March 2001.

Ecological Society of America (ESA), Snowbird, UT August 2000.

Western Society of Naturalists, Monterey, CA, Dec. 1999. Honorable Mention, Best Student Paper.

International Conference on Artificial Reefs (7th Annual CARAH), San Remo, Italy, October 1999.

Ecological Society of America (ESA), Spokane, WA, August 1999.

International Conference on Marine Bioinvasions, Cambridge, MA, January 1999.

Western Society of Naturalists (WSN), San Diego, CA, December 1998.

Ecological Society of America (ESA), Baltimore, MD, August 1998.

American Malacological Union/Western Society of Malacologists Joint Meeting, Santa Barbara, CA June 1997. **Awarded Best Student Paper.**

American Society of Limnology and Oceanography (ASLO), Santa Fe, New Mexico, Feb. 1997.

Western Society of Naturalists (WSN), La Paz, Mexico, January 1997.
Southwest Population Biology Conference, Univ. of California James Reserve, April 1996.
Univ. of California Toxic Substances Symposium, Santa Cruz, CA, March 1996. Poster presentation
Southwest Population Biology Conference, Univ. of California James Reserve, April 1995.
Honors Thesis Symposium, Duke Univ., May 1992. Poster presentation
Duke University Symposium on Primate Research, Durham, NC, 1991.

OTHER CONFERENCE PARTICIPATION

Invited graduate student attendee, NSF National Center for Ecological Analysis & Synthesis Symposium, "Synthesis in Ecology: Applications, Opportunities, and Challenges", Nov. 1996
NSF National Center for Ecological Analysis & Synthesis, Spatial Ecology Conference, Feb. 1996

MAJOR UNIVERSITY SERVICE

University of Georgia:

Associate Dean for Administration and Research , Odum School of Ecology	2016-20; 2021-24
Dean search committee for the Odum School of Ecology, Office of the Provost	2022-23
Science and Ag Hill Modernization Phase 2 Building Steering Committee	2022-23
Science and Engineering Research Awards Review Committee, UGA	2022-2025
Promotion and Tenure Committee, Odum School of Ecology	2021
Undergraduate Committee, Odum School of Ecology	2021
Search Committee for Dean of Odum School of Ecology, Office of the Provost	2020-21
Review committee for the Odum School of Ecology, Office of the Provost	2020-21
Seminar Committee, Odum School of Ecology	2020-21
Provost's Task Force on Academic Excellence	2020
President's Faculty Advisory Committee	2020-21
Space and Facilities Committee <i>Chair</i> , Odum School of Ecology	2018-20; 21-present
Meigs Distinguished Professorship Selection Committee, UGA	2019-20
Executive Committee, <i>Chair</i> , Odum School of Ecology	2019-20; 21-present
Marine Conservation Biologist Search Committee, Dept of Marine Sciences	2020
Diversity Committee, Odum School of Ecology	2016-18
Ecophysiology Search Committee, Odum School of Ecology	2017
Steering Committee, Graduate Training Grant in Disease Ecology (IDEAS)	2014-2021
Graduate Program Coordinator , Odum School of Ecology	2009-16
Executive Committee, Odum School of Ecology	2014-15; 16-19
Ecologist Search Committee, Odum School of Ecology	2015-16
Five-year review committee for the Dean of the Odum School of Ecology	2014
Molecular Ecologist Search Committee, Odum School of Ecology	2013-14
President's Faculty Advisory Committee	2011-14
<i>Chair</i> , Senior Ecologist Search Committee, Odum School of Ecology	2012-13
Sapelo Island Marine Institute Visioning Committee	2011-12
Five-year review committee for the Center for Tropical and Emerging Global Diseases, VP for Research	2008-09
<i>Affiliate</i> , Georgia Coastal Research Council (Aids scientific exchange between scientists and decision makers; promotes use of science in state and local resource management)	2008-present

University of New Hampshire:

College Promotion and Tenure Committee	2006-07
Search Committee for Asst Dean of College of Life Science & Agriculture	2006
NH Sea Grant Policy Advisory Committee	2005-07
College of Life Science & Agriculture Research Advisory Committee	2005-07
Graduate Student Admissions Committee, Zoology Department	2003-07
Seminar Facilitator, Zoology Department	2001-07

Graduate School Governance Council	2003-06
Marine & Freshwater Biology Option Coordinator and Member of Biology Program Executive Committee	2003-06
Executive Committee, Zoology Department	2002-03; 04-05
Previous Affiliations:	
Seminar Facilitator, Friday Harbor Labs	2000-01
Co-organizer of Public Relations Open House, Friday Harbor Labs	2001
Graduate Rep. to Univ. California Natural Reserve System Advisory Committee	1998-99
Biology Graduate Student Representative to Graduate Student Association	1996-98
Treasurer, Biology Department Graduate Students, UCSB	1995-98

SERVICE TO SCHOLARLY JOURNALS AND GRANTING AGENCIES:

Editorial Board Member for **Ecology Letters** (2009-present); **Biological Invasions** (2009-2014)

Reviewer for Journals:

American Naturalist; Biological Invasions; Biology Letters; Canadian Journal of Zoology; Ecology (including as *ad hoc* subject editor); Estuaries; Estuarine, Coastal & Shelf Science; Fisheries Research; Frontiers in Ecology & the Environment; Global Ecology & Biogeography; Hydrobiologia; Journal of Ecology; Journal of Experimental Marine Biology & Ecology; Marine Biology; Marine Ecology Progress Series; Marine Environmental Research; Molecular Ecology; New Zealand Journal of Marine & Freshwater Research; Northeastern Naturalist; Oecologia; Oikos; PNAS; Proceedings of the Royal Society B; Science; Trends in Ecology & Evolution

Reviewer for Granting Agencies:

Canadian Aquatic Invasive Species Network (CAISN), FONDECYT (Chilean Science Foundation), MacArthur Fellows Program, Monterey Bay Sanctuary Monitoring Network, NOAA Sea Grant, NSF, USDA

LOCAL COMMUNITY SERVICE AND RELATIONS

- Speak in local elementary schools on marine ecology 1-2 times a year. (Chase Street Elementary, Oconee Elementary, Oconee Primary, Oconee Middle, Athens Montessori).
- Speak 1-2 times a year to a lay audience of ~30 at Reynolds Lake Oconee (Greensboro, GA) on topics in ecology and marine biology.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Ecological Society of America; American Association for the Advancement of Science (AAAS); Benthic Ecology Meeting Society

OTHER RELEVANT SKILLS

Fluent in Spanish; Certified AAUS SCUBA diver