



BRADLEY JAMES PETERSON CURRICULUM VITA

School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, NY 11968
Voice: (631) 632-5044 Fax: (631) 632-5070
Email: bradley.peterson@stonybrook.edu
Website: you.stonybrook.edu/theawesomepeterson
Instagram: @Peterson_Lab

RESEARCH INTERESTS

Population and community ecology; positive biological interactions; the role of benthic-pelagic linkages in near shore environments; the influence of habitat complexity on predator-prey interactions; impacts of climate change on near shore communities and restoration ecology.

EDUCATION

Dauphin Island Sea Lab and University of South Alabama, Mobile, AL 36688
Ph.D in Marine Science, December 1998 (Major professor: Kenneth L. Heck)

University of Rhode Island, Kingston, RI 02881
M.S. in Zoology, December 1992.

Florida Institute of Technology, Melbourne, FL 32901
B.S. *cum laude*, in Marine Biology, August 1989.

PROFESSIONAL EXPERIENCE

Professor. School of Marine and Atmospheric Sciences, Stony Brook, NY
(2023 – present)

Associate Professor. School of Marine and Atmospheric Sciences, Stony Brook, NY
(2011 – 2023)

Assistant Professor. School of Marine and Atmospheric Sciences, Stony Brook, NY
(2005 – 2011) Courses: Experimental Marine Biology, Benthic Ecology, Coastal Oceanography, Seagrass Community Ecology and Tropical Marine Ecology.

- Trained graduate students in the application of marine science through dissertation and thesis research.
- Conducted independent research projects and wrote peer-reviewed scientific articles

Assistant Professor. Southampton College, Southampton, NY
(2002 – 2005) Courses: Marine Ecology, Field Biology and Biometry

- Instructed undergraduate students in the theory and application of ecology and statistics
- Conducted independent research projects and wrote peer-reviewed scientific articles

Visiting Research Scientist. Florida International University, Miami, FL
(2000–2002) (Supervisor: James W. Fourqurean)

- Conducted field and laboratory experiments to ascertain the grazing impact of the dominant sponge species in Florida Bay.
- Conducted mesocosm experiments to model the concomitant effect of sponge grazing on light availability to the seagrass community.

Research Associate. Florida Marine Research Institute, Key Largo, FL
(1999-2002) (Supervisor: Paul Carlson)

- Collected field data from multiple platforms throughout Florida Bay.
- Assisted other scientists with collection of field data.

Tropical Biology Postdoctoral Fellow. Florida International University, Miami, FL
(1998-2000) (Advisor: James W. Fourqurean)

- Designed independent research projects and implemented them in the field. Responsible for all aspects of data collection, analysis and publication.
- Prepared and submitted grant proposals for novel research projects.

Teaching Assistant. Dauphin Island Sea Lab, Dauphin Island, AL
(1997) Course: Marine Ecology.

- Supervised and assisted students with their mandatory independent research projects. Provided technical support for experimental design and data presentation.
- Assisted the faculty in the instruction of Marine Ecology. Performed in-field laboratories of various marine habitats.

Teaching Assistant. Maritime Studies Program, Williams College, Mystic, CT
(1992-1993) Courses: Oceanography, Marine Ecology.

- Supervised and assisted students with their mandatory independent research projects. Provided technical support for experimental design and data presentation.
- Maintained the program's marine laboratory. Responsible for equipment care and purchasing, chemical preparation, and supervision of the undergraduate laboratory assistants.

Instructor. Department of Biology, Community College of Rhode Island, Warren, RI
(1992) Course: Human Physiology.

- Prepared and presented weekly lectures to the school's nursing students.
- Prepared and administered examinations and evaluated the students' overall performance in the class.

Teaching Assistant. Department of Zoology, University of Rhode Island, Kingston, RI
(1989-1992) Courses: Invertebrate Zoology, Animal Diversity, Human Anatomy, Intro to Biology.

- Prepared weekly lectures, incorporating current research articles into the laboratory lesson.
- Organized and administered laboratory quizzes and examinations.
- Maintained and repaired laboratory and field equipment.
- Supervised other teaching assistants within the laboratory. Provided technical and practical advice and evaluated their performance for the Zoology department.

Research Assistant. Electron Microscope Facility, Univ. of Rhode Island
(1992)

- Prepared laboratory equipment and chemicals for the undergraduate and graduate courses in electron microscopy.
- Instructed students in the proper use and maintenance of the laboratory equipment.
- Assisted students with the complex procedure of specimen preparation for both TEM and SEM microscopy.
- Supervised independent student research projects to maintain appropriate time schedules and to provide technical assistance.

Research Assistant. Department of Pharmacognosy, Univ. of Rhode Island
(1991)

- Isolated and cultured dinoflagellates for detection of bioactivity.
- Harvested dinoflagellates using a Highspeed Flow-Through Centrifuge and prepared the extract and supernant for chemical analysis.

Research Assistant. R/V Edwin Link, Harbor Branch Oceanographic Institute
(1988)

- Isolated and identified individuals of the Phylum Chaetognatha from multiple plankton tows.
- Created an identification key for individuals of the Phylum Chaetognatha occurring off the eastern coast of Florida.

- Established a specimen collection of chaetognaths for the Indian River Coastal Zone Museum.
- Documented the vertical and seasonal distribution patterns in *A Systematic and Distributional Study of the Phylum Chaetognatha Off the East Coast of Florida* and presented the results to the Harbor Branch Oceanographic Institute faculty.
- Preserved histological samples for Echinoderm specimens collected on board the R/V Edwin Link.
- Participated in six collection dives aboard the Johnson SeaLink II submersible.

Laboratory/Field Technician. Shellfish Testing Services, Melbourne FL
(1987-88)

- Collected and analyzed shellfish tissue and water samples for microbial contamination.
- Constructed and maintained prototype shelters for seed clam aquaculture in the Indian River.

HONORS AND AWARDS

- 2021 Peconic Estuary Program Technical Advisory Committee co-chair
- 2020 South Shore Estuary Reserve Submerged Aquatic Vegetation Subcommittee member
- 2019 Peconic Estuary Program Scallop Taskforce Workgroup
- 2019 Ecology and Evolution Graduate Faculty member, Stony Brook University.
- 2019 Long Island Sound Study Science and Technology Advisory Committee member
- 2018 Benthic Ecology Society Board Member
- 2017 NYDEC Nitrogen Bioextraction Workgroup
- 2017 Peconic Aquaculture Lease Monitoring (PALM) Advisory Group
- 2016 Peconic Estuary Program Technical Advisory Panel
- 2012 Dean's Council for the School of Marine and Atmospheric Sciences
- 2007 Member of the New York State Seagrass Advisory Board
- 2001 Collaborator status, Everglades Coastal Long Term Ecological Research Program.
- 2000 Thurlow C. Nelson Award (Honorable mention), National Shellfish Association.
- 1998 Tropical Biology New Investigator Postdoctoral Fellow, Florida International University.
- 1997 Best Student Oral Presentation Award, 14th Estuarine Research Federation Meeting.
- 1997 Barbar Fellowship in Marine Science, University of South Alabama.
- 1993 Graduate Research Fellowship, University of South Alabama.
- 1992 Student Paper Award, American Malacological Union Meetings.
- 1988 Summer Research Internship, Harbor Branch Oceanographic Institute.

PUBLICATIONS (Peer reviewed)

(Peterson mentored graduate * and undergraduate students †)

- 80 Pagenkopp L. M., R. DiMaria, D. L. Martin, A. R. Hughes, **B. J. Peterson**, K. E. Boyer, J. J., P. Jorgensen, G. M. Ruiz, C. Ross. 2025. Phylogeography of *Labyrinthula* species and strains shows high connectivity and low genetic variation across seagrass hosts and geographic locations in North America. *Front. Mar. Sci.* 11: [//doi.org/10.3389/fmars.2024.1463968](https://doi.org/10.3389/fmars.2024.1463968)
- 79 Shipley, O.N., Nicoll, A., Cerrato, R.M. *et al.* Performance of a fine-scale acoustic positioning system for monitoring temperate fish behavior in relation to offshore marine developments. *Anim Biotelemetry* **12**, 36 (2024). <https://doi.org/10.1186/s40317-024-00386-x>
- 78 Lowell, A.*, C. E. Hill, S. Dupont, E. Infantes, K. Ramesh, **B. J. Peterson**, L. L. Govers and T. E. Cox. 2024. Low pH enhances germination of eelgrass (*Zostera marina* L.) seeds despite ubiquitous presence of *Phytophthora gemini*. *Aquatic Botany* 195: 103805 ([//doi.org/10.1016/j.aquabot.2024.103805](https://doi.org/10.1016/j.aquabot.2024.103805))
- 77 Goetze, J. S. and 112 co-authors. 2024. Directed conservation of the world's reef sharks and rays. *Nature Ecology and Evolution* 8: 1118-1128.
- 76 Gross, C. P. and 39 co-authors. 2024. A latitudinal Cline in the Taxonomic Structure of Eelgrass Epifaunal Communities is Associated with Plant Genetic Diversity. *Global Ecology and Biogeography* 33(12): e13918.
- 75 Heck, S. M.*, C. J. Paparo, A. I. Tinoco*, T. J. Vlasak†, B. V. Cahill†, S. V. Milea†, K. A. O'Toole*, B. J. Scannell*, J. H. Grabowski and **B. J. Peterson**. 2024. Nonconsumptive effects of black sea bass

- (*Centropristis striata*) on a crustacean mesopredator and the indirect effects on bivalve survival. *Journal of Experimental Marine Biology and Ecology* 570: 151964
- 74 Tettelbach, S. T., R. E. Czaja Jr., H. Tobi, S. W. T. Hughes, **B. J. Peterson**, S. M. Heck*, J. MacGregor*, F. DeLany*, B. J. Scannell*, E. Pales Espinosa and B. Allam. 2023. Collapse of the New York Bay scallop fishery despite sustained larval and juvenile recruitment. *Marine Ecology Progress Series* 714: 45-66
 - 73 Simpfendorfer, C. A. and 121 co-authors. 2023. Widespread diversity deficits of coral reef sharks and rays. *Science* 380 (6650): 1155-1160
 - 72 Kahn, B., A. Lowell*, F. DeLany*, J. MacGregor*, B. J. Peterson and C. Zarnoch. 2023. Acidification alters sediment nitrogen source-sink dynamics in eelgrass (*Zostera marina* (L.)) beds. *Biogeochemistry* 164: 451-471
 - 71 Kulp, R. E.*, A. V. Lowell*, N. J. Floros† and B. J. Peterson. 2023. Predator density, not structure, influences intraspecific competition in the mud crab *Dyspanopeus sayi*. *Marine Ecology Progress Series* 709: 45-54
 - 70 Gobler, C. J., M. H. Doall, **B. J. Peterson**, C. S. Young, F. DeLany*, R. B. Wallace, S. J. Tomasetti, T. P. Curtin, B. K. Morrell, E. M. Lamoureux, B. Ueoka, A. W. Griffith, J. M. Carroll*, D. Nanjappa, J. G. Jankowiak, J. A. Goleski, A. E. Famularo, Y. Kang, E. K. Pikitch, C. Santora, S. M. Heck*, D. M. Cottrell*, D. W. Chin*, R. E. Kulp*. Rebuilding A Collapsed Bivalve Population, Restoring Seagrass Meadows, and Eradicating Harmful Algal Blooms in a Temperate Lagoon Using Spawner Sanctuaries. *Frontiers in Marine Science*. /www.frontiersin.org/articles/10.3389/fmars.2022.911731
 - 69 Bopp, J., J. A. Olin, M. Sclafani, **B. J. Peterson**, M. G. Frisk and R. M. Cerrato. 2022. Contrasting Trophic Niche and Resource Use Dynamics Across Multiple American Horseshoe Crab (*Limulus Polyphemus*) Populations and Age Groups. *Estuaries and Coasts* 46 (1): 227-245
 - 68 Duffy, J. E. and 40 co-authors. 2022. A Pleistocene legacy structures variation in modern seagrass ecosystems. *Proceedings of the National Academy of Sciences* 119 (32), e2121425119
 - 67 Plaisted HK, Shields EC, Novak AB, Peck CP, Schenck F, Carr J, Duffy PA, Evans NT, Fox SE, Heck SM*, Hudson R, Mattera T, Moore KA, Neikirk B, Parrish DB, **Peterson BJ**, Short FT and Tinoco AI. 2022. Influence of Rising Water Temperature on the Temperate Seagrass Species Eelgrass (*Zostera marina* L.) in the Northeast USA. *Frontiers in Marine Science* 9:920699. doi: 10.3389/fmars.2022.920699
 - 66 Gross, C. and 38 co-authors. 2022. The biogeography of community assembly: latitude and predation drive variation in community trait distribution in a guild of epifaunal crustaceans. *Proceedings of the Royal Society B* 289 (1969): 20211762
 - 65 Carroll, J. M.*, S. T. Tettelbach, L. J. Jackson*, R. E. Kulp*, E. McCoy* and **B. J. Peterson**. 2022. Variability in site characteristics linked to bay scallop abundance but not tethered survival: Implications for restoration. *Journal of Experimental Marine Biology and Ecology* 546 (15) 151663doi.org/10.1016/j.jembe.2021.151663]
 - 64 Lowell, A., E.*, Infantes, L. West, L. Puishys, C. E. L. Hill, R. Ramesh, **B. J. Peterson**, J. Cebrian, S. Dupont and T. E. Cox. 2021. How does Ocean Acidification affect the early life history of *Zostera marina*? A series of experiments find parental carryover can benefit viability or germination. *Frontiers in Marine Science* 8:762086
 - 63 Wallace, R. B., **B. J. Peterson** and C. J. Gobler. 2021. Ecosystem metabolism modulates the dynamics of hypoxia and acidification across temperate coastal habitat types. *Frontiers in Marine Science* 8:611781
 - 62 Chin, D. W.*, J. de Fouw, T. van der Heide, B. V. Cahill†, K. Katcher, V. J. Paul, J. E. Campbell, **B. J. Peterson**. 2021. Facilitation of a tropical seagrass by chemosymbiotic bivalve increases with environmental stress. *Journal of Ecology* 109: 204-217
 - 61 MacNeil, M. A. and 121 co-authors. 2020. Global status and conservation potential of reef sharks. *Nature* 583: 801-806

- 60 Furman, B. T.*, K. L. Heck, **B. J. Peterson**. 2020. Will the Florida Big Bend Area Become the Next Gulf of Mexico Reef Tract? *Frontiers in Marine Science* 7:334.
- 59 Tettelbach, S. T., B. T. Furman*, S. W. T. Hughes, J. M. Carroll*, **B. J. Peterson**, J. Havelin, C. R. H. Tettelbach, R. M. Patricio. 2020. Attempted use of an uncommon bay scallop color morph for tracking the contribution of restoration efforts to population recover. *Restoration Ecology* 28(3): 532-542.
- 58 Young, C. S., A. Lowell*, **B. J. Peterson**, C. J. Gobler. 2019. Ocean acidification and food limitation combine to suppress herbivory by the gastropod *Lacuna vincta*. *Marine Ecology Progress Series* 627: 83-94.
- 57 Shantharam, A. K., D. K. Padilla, **B. J. Peterson**, M. Doall, C. Lobue, A. Webb. 2019. Macrofaunal community structure following the restocking of northern quahog (*Mercenaria mercenaria*) to Great South Bay, Long Island, NY. *Journal of Shellfish Research* 38: 259-270.
- 56 Carroll, J. M.*, B. T. Furman*, L. J. Jackson*, E. A. Hunter, **B. J. Peterson**. 2019. Propagule risk in a marine foundation species: Seascape effects on *Zostera marina* seed predation. *Journal of Ecology* 107: 1982-1994.
- 55 Bond, M. E., J. Valentine-Albanese, E. A. Babcock, M. R. Heithaus, R.D. Grubbs, R. Cerrato, **B. J. Peterson**, E. K. Pikitch, D. D. Chapman. 2019. Top predators induce habitat shifts in prey within marine protected areas. *Oecologia* 190: 375-385.
- 54 Carroll, J. M.*, A. D. Stubler*, C. M. Finelli, **B. J. Peterson**. 2019. The potential use of seagrass herbivory patterns as an indicator of herbivore community change after tropical Marine Protected Area establishment. *Gulf and Caribbean Research* 30: SC1-SC6
- 53 Röhr, M. E. (and 34 others). 2018. Blue carbon storage capacity of temperate eelgrass (*Zostera marina*) meadows. *Global Biogeochemical Cycles* 32: 1457-1475. (<https://doi.org/10.1029/2018GB005941>).
- 52 Young, C. S., **B. J. Peterson**, and C. J. Gobler. 2018. The bloom-forming macroalgae, *Ulva*, outcompetes the seagrass, *Zostera marina* under high CO₂ conditions. *Estuaries and Coasts* 41: 2340-2355.
- 51 Zarnock, C. B., T. J. Hoellein, B. T. Furman* and **B. J. Peterson**. 2017. Eelgrass meadows (L.), facilitate the ecosystem service of nitrogen removal during simulated nutrient pulses in Shinnecock Bay, New York, USA. *Marine Pollution Bulletin* 124(1): 376-387
- 50 McCoy, E.*, S. T. Borrett, M. K. LaPevre and **B. J. Peterson**. 2017. Estimating the impact of oyster restoration scenarios on transient fish production. *Restoration Ecology* 25(5):798-809. (mentored M.S. student)
- 49 Tinoco, A. I.*, B. T. Furman*, K. M. Darnell and **B. J. Peterson**. 2017. Submerged aquatic vegetation, topography and flow characteristics in the upper, tidal Hudson River: Progress toward a predictive habitat model. *Aquatic Botany* 142: 53-60. (mentored M.S. student)
- 48 Jackson, L. J.*, B. T. Furman* and **B. J. Peterson**. 2017. Morphological response of *Zostera marina* reproductive shoots to fertilized porewater. *Journal of Experimental Marine Biology and Ecology* 489:1-6. (mentored M.S. student)
- 47 Furman, B. T.*, L. J. Jackson* and **B. J. Peterson**. 2017. Edaphic resource foraging by *Zostera marina* (Linnaeus) patches. *Journal of Experimental Marine Biology and Ecology* 486:214-221. (mentored Ph. D student)
- 46 Kulp, R.* and **B. J. Peterson**. 2016. Evaluating the impact of mesopredators on oyster restoration in the New York Metropolitan Region. *Journal of Shellfish Research* 35(4): 801-807. (mentored Ph.D. student)
- 45 Stubler, A. D.*, Jackson, L. J.*, Furman, B. T.* and **B. J. Peterson**. 2016. Seed production patterns in *Zostera marina*: Effects of patch size and landscape configuration. *Estuaries and Coasts* 40 (2): 564-572. (mentored Ph.D. student)
- 44 Stubler, A. D.* and **B. J. Peterson**. 2016. Ocean acidification accelerates dissolution and bioerosion in a coral rubble community. *Coral Reefs* 35(2): 795-803. (mentored Ph.D. student)

- 43 Stubler, A. D.*, A. K. Stevens and **B. J. Peterson**. 2016. Using community-wide recruitment and succession patterns to assess sediment stress on Jamaican coral reefs. *Journal of Experimental Marine Biology and Ecology* 474: 29-38. (mentored Ph. D student)
- 42 Furman, B. T.* and **B. J. Peterson**. 2015. Sexual Recruitment in *Zostera marina*: Progress toward a Predictive Model. *PLoS ONE* 10(9): e0138206. (mentored Ph. D student)
- 41 Stubler, A. D.*, B. T. Furman* and **B. J. Peterson**. 2015. Sponge erosion under acidification and warming scenarios: differential impacts on living and dead coral. *Global Change Biology* 21(11): 4006-4020. (mentored Ph. D student)
- 40 Tettelbach, S. T., **B. J. Peterson**, J. M. Carroll*, B. T. Furman*, S. W. T. Hughes, J. Havelin, J. R. Europe, D. M. Bonal, A. J. Weinstock and C. F. Smith. 2015. Aspiring to an Alternative Stable State: Rebuilding of Bay Scallop Populations and Fisheries Following Intensive Restoration. *Marine Ecology Progress Series* 529: 121-136.
- 39 Stubler, A. D.*, A. R. Duckworth and **B. J. Peterson**. 2015. Sedimentation affects sponge abundance, diversity and distribution on Jamaican coral reefs. *Marine Pollution Bulletin* 96: 261-270. (mentored Ph. D student)
- 38 Berry, D. L., J. A. Goleski, F. Koch, C. C. Wall*, **B. J. Peterson**, O. R. Anderson and C. J. Gobler. 2015. *Synechococcus* blooms in Florida Bay. *Molecular Ecology* 70: 361-371.
- 37 Furman, B. T.*, L. J. Jackson*, E. Bricker and **B. J. Peterson**. 2015. Sexual recruitment in *Zostera marina*: a patch to landscape-scale investigation. *Limnology and Oceanography* 60(2): 584-599. (mentored Ph. D student)
- 36 Carroll, J. M.*, L. L. Jackson* and **B. J. Peterson**. 2015. The effect of increasing habitat complexity on bay scallop survival in the presence of different decapod crustacean predators. *Estuaries and Coasts* 38: 1569-1579 (mentored Ph. D student)
- 35 **Peterson, B. J.**, A. M. Fournier*, B. T. Furman* and J. M. Carroll*. 2014. *Hemigrapsus sanguineus* in Long Island salt marshes: experimental valuation of the interactions between an invasive crab and resident ecosystem engineers. *PeerJ* 2:e472 <http://dx.doi.org/10.7717/peerj.472>
- 34 Stubler, A. M.*, B. T. Furman* and **B. J. Peterson**. 2014. Effects of $p\text{CO}_2$ on the interaction between an excavating sponge, *Cliona varians*, and a hermatypic coral, *Porites furcata*. *Marine Biology* 161: 1851-1859. (mentored Ph. D student)
- 33 **Peterson, B. J.**, E. Bricker, S. J. Brisbin*, B. T. Furman*, A. D. Stubler*, J. M. Carroll*, D. L. Berry, C. J. Gobler, A. Calladine, M. Waycott. 2013. Genetic diversity and gene flow in *Zostera marina* populations surrounding Long Island, New York, USA: No evidence of inbreeding, genetic degradation or population isolation. *Aquatic Botany* 110: 61-66.
- 32 Wall, C. C.*, **B. J. Peterson**, E. Ward and C. J. Gobler. 2013. Contrasting growth patterns of suspension-feeding molluscs (*Mercenaria mercenaria*, *Crassostrea virginica*, *Argopecten irradians* and *Crepidula fornicata*) across a eutrophication gradient in the Peconic Estuary, NY, USA. *Estuaries and Coasts* 36: 1274-1291. (mentored Ph. D student)
- 31 Carroll, J. M.* and **B. J. Peterson**. 2013. Ecological trade-offs in seascape ecology: bay scallop survival and growth across a seagrass landscape. *Landscape Ecology* 28: 1401-1413. (mentored Ph. D student)
- 30 Carroll, J. M.* and **B. J. Peterson**. 2013. Comparisons in demographic rates of bay scallops in eelgrass and the introduced alga, *Codium fragile*, in New York. *Marine Biology* 160: 1451-1463. (mentored Ph. D student)
- 29 Tettelbach, S. T., **B. J. Peterson**, J. M. Carroll*, S. W.T. Hughes, D. Bonal, A. Weinstock, J. R. Europe, B. T. Furman*, C. F. Smith. 2013. Priming the larval pump: Resurgence of bay scallop recruitment after initiation of intensive restoration efforts. *Marine Ecology Progress Series* 478: 153-172.

- 28 **Peterson, B. J.**, K. L. Heck and J. V. Valentine. 2013. The snapper-grunt pump: habitat modification and facilitation of the associated benthic plant communities by reef resident fish. *Journal of Experimental Marine Biology and Ecology* 441: 50-54.
- 27 Duckworth, A. R. and **B. J. Peterson**. 2013. Effects of seawater temperature and pH on the boring rates of the sponge *Cliona celata* in scallop shells. *Marine Biology* 160: 27-35.
- 26 Carroll, J. M.*, B. T. Furman*, S. T. Tettelbach and **B. J. Peterson**. 2012. Balancing the edge effects budget: bay scallop settlement and loss along a seagrass edge. *Ecology* 93: 1637-1647. (mentored Ph. D student)
- 25 **Peterson, B. J.**, A. D. Stubler*, C. C. Wall* and C. J. Gobler. 2012. Nitrogen-rich groundwater intrusion affects productivity, but not herbivory, of the tropical seagrass *Thalassia testudinum*. *Aquatic Biology* 15: 1-9. (Featured Article)
- 24 Wall, C. C.*, B. S. Rodgers*, C. J. Gobler and **B. J. Peterson**. 2012. Responses of loggerhead sponges *Spekiospongia vesparium* during harmful cyanobacterial blooms in a sub-tropical lagoon. *Marine Ecology Progress Series* 451: 31-43. (mentored Ph.D student)
- 23 Rountos, K. J.*, **B. J. Peterson** and I. Karakassis. 2012. Indirect effects of fish cage aquaculture on shallow *Posidonia oceanica* seagrass patches in coastal Greek waters. *Aquaculture Environment Interactions* 2: 105-115. (mentored M.S. student)
- 22 Neckles, H., B. Kopp, **B. J. Peterson** and P. Pooler. 2012. Integrating scales of seagrass monitoring to meet conservation needs. *Estuaries and Coasts* 35: 23-46.
- 21 Wall, C. C.*, **B. J. Peterson** and C. J. Gobler. 2011. The growth of estuarine resources (*Zostera marina*, *Mercenaria mercenaria*, *Crassostrea virginica*, *Argopecten irradians*, *Cyprinodon variegates*) in response to nutrient loading and enhancement of suspension-feeding by adult shellfish. *Estuaries and Coasts* 34: 1262-1277. (mentored Ph.D. student)
- 20 Goleski, J. A., F. Koch, C. C. Wall*, M. A. Marcoval-Pan, F. J. Jochem, **B. J. Peterson** and C. J. Gobler. 2010. The role of zooplankton grazing and nutrient loading in the occurrence of harmful cyanobacterial blooms in Florida Bay, FL, USA. *Estuaries and Coasts* 33: 1202-1215.
- 19 Carroll, J. M.*, **B. J. Peterson**, D. Bonal, A. Weinstock, C. F. Smith and S. T. Tettelbach. 2010. Comparative survival of bay scallops in eelgrass and the introduced alga, *Codium fragile*, in a New York estuary. *Marine Biology* 157:249-259. (mentored Ph.D. student)
- 18 Carroll, J.*, C. J. Gobler and **B. J. Peterson**. 2008. Resource- restricted growth of eelgrass in New York estuaries: light limitation, and alleviation of nutrient stress by hard clams. *Marine Ecology Progress Series* 369:51-62. (mentored Ph.D. student)
- 17 Valentine, J. F., K. L. Heck, Jr., **B. J. Peterson**, D. Blackmon, J. Christian, M. Goecker, R. M. Kroutil, M. Vanderklift and M. Beck. 2008. Exploited species impacts on trophic linkages along reef-seagrass interfaces in the Florida keys. *Ecological Applications* 18: 1501-1515.
- 16 Wall, C. C.*, **B. J. Peterson**, and C. J. Gobler. 2008. The facilitation of eelgrass (*Zostera marina*) productivity by suspension feeding bivalves in an experimental setting. *Marine Ecology Progress Series* 357: 165-174. (mentored Ph.D. student)
- 15 **Peterson, B. J.**, T. Frankovich and J. C. Zieman. 2007. Response of seagrass epiphyte loading to field manipulations of fertilization, gastropod grazing and leaf turnover rates. *Journal of Experimental Marine Biology and Ecology* 349: 61-72.
- 14 Weiss, M. B., P. B. Curran, **B. J. Peterson** and C. J. Gobler. 2007. The influence of water quality on hard clam (*Mercenaria mercenaria* L.) populations across Long Island's south shore lagoon estuaries. *Journal of Experimental Marine Biology and Ecology* 345: 12-25.

- 13 Warren, J. D. and **B. J. Peterson**. 2007. Classification of estuarine bottom habitat and vegetation canopy height using backscatter intensity from an acoustic doppler current profiler. *Estuarine, Coastal and Shelf Science* 72: 53-62.
- 12 Valentine, J. F., K. L. Heck, Jr., D. Blackmon, M. E. Goecker, J. Christian, R. M. Kroutil, K. D. Kirsch, **B. J. Peterson**, M. Beck and M. A. Vanderklift. 2007. Food web interactions along seagrass-coral reef boundaries: effects of piscivore reductions on cross-habitat energy exchange. *Marine Ecology Progress Series* 333: 37-50.
- 11 **Peterson, B. J.**, C. M. Chester and J. W. Fourqurean. 2006. Potential role of sponge communities in controlling phytoplankton blooms in Florida Bay. *Marine Ecology Progress Series* 328: 93-103.
- 10 Gobler, C. J., D. B. Thibault, T. W. Davis, P. B. Curran, **B. J. Peterson** and L. B. Liddle. 2006. Algal assemblages associated with *Stegastes* sp. Territories on Indo-Pacific coral reefs: Characterization of diversity and controls on growth. *Journal of Experimental Marine Biology* 336: 135-145.
- 9 Fourqurean, J. W., J. N. Boyer, M. J. Durako, **B. J. Peterson** and L. N. Hefty. 2003. Forecasting responses of seagrass distributions to changing water quality using monitoring data. *Ecological Applications* 13(2): 474-489.
- 8 **Peterson, B. J.**, C. D. Rose, L. Rutten and J. W. Fourqurean. 2002. Disturbance and recovery following catastrophic grazing: studies of a successional chronosequence in a seagrass bed. *OKIOS* 97:361-370.
- 7 **Peterson, B. J.**, K. R. Thompson, K. L. Heck, Jr., and J. H. Cowan, Jr. 2001. Comparison of predation pressure in temperate and subtropical regions based on chronographic tethering. *Marine Ecology Progress Series* 224: 77-85.
- 6 **Peterson, B. J.** and K. L. Heck. 2001. An experimental test of the mechanism by which suspension feeding bivalves elevate seagrass productivity. *Marine Ecology Progress Series* 218: 115-125.
- 5 **Peterson B. J.** and J.W. Fourqurean. 2001. Large-scale patterns in seagrass (*Thalassia testudinum*) demographics in south Florida. *Limnology and Oceanography* 46:1077-1090.
- 4 **Peterson, B. J.** and K. L. Heck. 2001. Positive interactions between suspension feeding bivalves and seagrass assemblages - a facultative mutualism. *Marine Ecology Progress Series* 213: 143-155.
- 3 **Peterson, B. J.** and K. L. Heck. 1999. The potential for suspension feeding bivalves to increase seagrass productivity. *Journal of Experimental Marine Biology and Ecology* 240:37-52.
- 2 **Peterson, B. J.** 1998. Accelerated decomposition of *Caulerpa paspaloides* due to the grazing influence of *Oxynoe azuropunctata*. *Gulf of Mexico Science* 15(2):93-96.
- 1 **Peterson, B. J.** 1998. Morphology and ultrastructure of the feeding apparatus of *Sayella fusca* (C. B. Adams, 1839). *Journal of Molluscan Studies* 64: 281-296.

PUBLICATIONS (Other)

Lopez, G., D. Carey, J. T. Carlson, R. Cerrato, H. Dam, R. DiGiovani, C. Elphick, M. Frisk, C. Gobler, L. Hice, P. Howell, A. Jordaan, S. Lin, S. Liu, D. Lonsdale, M. McEnroe, K. McKown, G. McManus, R. Orson, **B. J. Peterson**, C. Pickerell, R. Rozsa, S. E. Shumway, A. Siuda, K. Streich, S. Talmage, G. Taylor, E. Thomas, M. Van Patten, J. Vaudrey, C. Yarish, G. Wikfors and R. Zajac. 2014. *Biology and Ecology of Long Island Sound*. In: Long Island Sound: Prospects for the Urban Sea (eds: J. S. Latimer, M. A. Tedesco, R. L. Swanson, C. Yarish, P. E. Stacey and C. Garza) pp. 285-479.

P. Carlson, L. Yarbrow, **B. J. Peterson**, A. Ketron, H. Arnold and K. A. Madley. 2002. The influence of sediment sulfide on the structure of south Florida seagrass communities. In: Greening, H. S. (ed.), *Seagrass Management: It's Not Just the Nutrients!* Tampa Bay Estuary Program 246 p.

Peterson, B. J. 2001. The potential for on-bottom shellfish aquaculture to enhance seagrass growth and productivity. Alaska Marine Advisory Program.

Peterson, B. J., C. D. Rose and J. W. Fourqurean. 2000. Chronosequence of a south Florida seagrass meadow after a sea-urchin disturbance event. Water Quality Protection Program FKNMS Annual Report.

Peterson, B. J. and J. W. Fourqurean. 1998. *Thalassia testudinum* and *Syringodium filiforme* population demographics in the Florida Keys National Marine Sanctuary. Water Quality Protection Program FKNMS Annual Report.

Peterson, B. J. 1998. Interactions between suspension feeding bivalves (*Modiolus americanus*) and seagrass assemblages (*Thalassia testudinum*). Ph. D. Dissertation, Department of Marine Sciences, University of South Alabama. 127 pp.

Peterson, B. J. 1992. The morphology and ultrastructure of the feeding apparatus of *Sayella fusca* (C. B. Adams, 1839). M. S. Thesis, Department of Zoology, University of Rhode Island. 65 pp.

Peterson, B. J. and J. Miller 1987. The distribution of the Class Chaetognatha off the west coast of Florida. Final Report, Harbor Branch Oceanographic Institute. 45 pp.

GRANTS

- 2024 Peconic Estuary Partnership (PIs: **B. J. Peterson** and C. J. Gobler) Utilization of multiple foundation species to enhance coastal resiliency (\$684,324).
- 2024 National Park Service (PI: **B. J. Peterson**) Implementation of pilot seagrass restoration, and NCBN long-term estuarine water quality and seagrass condition monitoring (\$179,128).
- 2024 New York State Energy Research and Development (PI: **B. J. Peterson**) Refining methods for monitoring ecological effects of offshore wind turbine foundations and planning for an Offshore Wind Energy Research Reef in the New York Bight (\$66,475).
- 2024 Peconic Estuary Partnership (PI: **B. J. Peterson**) SAV aerial imagery ground truthing (\$45,000).
- 2023 Maze-Landau Foundation (PIs: C. J. Gobler and **B. J. Peterson**) Shinnecock Bay Restoration Project Phase 4 (1,312,114).
- 2023 Environmental Protection Agency - Restore Americas Estuaries (PI: **B. J. Peterson**) Groundwater refugia for eelgrass restoration (\$217,809).
- 2023 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Fire Island National Seashore and Gateway National Recreation Area (\$112,561)
- 2023 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Utilizing acoustic telemetry to assess the importance of artificial reefs as foraging hot spots, fish and invertebrate habitat use based on reef material type, and the fish population connectivity between the New York artificial reefs of Long Island. (\$425,967)
- 2023 Environmental Protection Agency - Peconic Estuary Program (PI: **B. J. Peterson**) Fish utilization of oyster aquaculture gear in Peconic Bay (\$150,000)
- 2022 Orsted – Sunrise Wind (PIs: **B. J. Peterson** and M. Sclafani). Sunrise Wind Export Cable Telemetry Project (\$4,109,872).
- 2022 USACE (PI: **B. J. Peterson**) Sturgeon telemetry project. (\$291,992).
- 2022 NY Seagrant (PI: **B. J. Peterson**) Quantifying the carbon sequestration stocks and accumulation rates in eelgrass (*Zostera marina*) in the South Shore Estuaries of Long Island (\$170,332).
- 2021 SoMAS Dean’s Fund SEED Grant (PI: **B. J. Peterson**) Below the seagrass surface: visualization of plant roots by Magnetic Resonance Imaging for elucidating sediment geochemical transformations and assessing the impact of climate change on these processes (\$29,992).
- 2021 NY Department of Environmental Conservation (PIs: **B. J. Peterson** and S. Tettelbach) Peconic Bay Scallop Monitoring (\$118,312).

- 2021 Orsted – South Fork Wind (PIs: M. Frisk, R. Cerrato, M. Scafani and **B. J. Peterson**) South Fork Export Cable Telemetry Project (\$4,843,783).
- 2021 National Science Foundation OCE-PFR (PIs: **B. J. Peterson** and N. Volkenborn) Fellowship for Kara Gadeken – Effects of below-ground complexity on seagrass sediment structure and function (\$183,400).
- 2021 Peconic Estuary Program (PI: **B. J. Peterson**) Assessing groundwater as eelgrass cold water refugia in Peconic Bay (\$80,000).
- 2020 Maze-Landeau Foundation (PIs: C. J. Gobler and **B. J. Peterson**) Shinnecock Bay Restoration Project Phase 3 (1,139,709)
- 2020 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Black Sea Bass and Blackfish utilization of offshore artificial reefs. (\$233,568)
- 2018 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Fire Island National Seashore and Gateway National Recreation Area (\$136,376)
- 2017 NY Seagrant (PI: **B. J. Peterson**) Seagrass OASiS (Ocean Acidification Sanctuaries and Subsidies) (\$219,468).
- 2017 NY Department of Environmental Conservation (PI: **B. J. Peterson**) The Great South Bay Bio-optical Model Project (\$40,533)
- 2017 The Nature Conservancy (PI: **B. J. Peterson**) Seagrass Restoration in Great South Bay (\$53,838)
- 2017 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Ground level verification support for South Shore Estuary Reserve benthic habitat (SAV) mapping project (\$7,517)
- 2017 EPA (PI: **B. J. Peterson**) Environmental Quality/Peconic Estuary Eelgrass Assessment: Bio-optical Model calibration (\$82,000)
- 2016 NY Department of Environmental Conservation (PIs: **B. J. Peterson**, J. M. Carroll and S. Tettelbach) The utility of non-commercial shellfish for ecosystem restoration: using *Crepidula fornicata* to help restore Long Island's South Shore Estuaries (\$327,633).
- 2016 NY Department of Environmental Conservation (PIs: **B. J. Peterson** and C. J. Gobler) Water Quality Improvement Program: Shinnecock Bay Restoration Program (\$505,958).
- 2016 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition and Water Quality at Gateway National Recreation Area (\$7,758).
- 2014 National Park Service (PIs: **B. J. Peterson** and R. Cerrato) Assessing the response of Great South Bay estuarine fauna to Hurricane Sandy: focus on nekton utilization of seagrass habitats (Revised to Include 2015 sampling) (\$129,853).
- 2014 National Park Service (PI: **B. J. Peterson**) Impacts of Hurricane Sandy on water quality and seagrass resources in Fire Island National Seashore (Revised to include 2015-2016 sampling) (\$176,951).
- 2013 Hudson River Valley Greenway (PIs: **B. J. Peterson** and R. Flood) Modelling the impacts of flow on Hudson River SAV distributions (\$18,038).
- 2013 NY State (PIs: **B. J. Peterson** and 18 others) Storm Resilience and Emergency Preparedness (RISE) (\$4,000,000).
- 2013 NY Department of Environmental Conservation (PIs: **B. J. Peterson**, J. Warren and D. Chapman) Assessing the most cost effective, repeatable and appropriate biological assessment methods and sampling procedures to monitor fishes, crustaceans and epibenthic organisms on artificial reefs off Atlantic Beach and Hempstead, NY (\$175,000).
- 2013 National Park Service (PIs: **B. J. Peterson** and R. Cerrato) Assessing the response of Great South Bay estuarine fauna to Hurricane Sandy: focus on nekton utilization of seagrass habitats (\$197,261).

- 2013 National Park Service (PI: **B. J. Peterson**) Impacts of Hurricane Sandy on water quality and seagrass resources in Fire Island National Seashore (\$171,989).
- 2012 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Seagrass Taskforce light monitoring equipment. (\$25,000).
- 2012 Army Corp of Engineers (PI: **B. J. Peterson**) Fish and benthic survey of Forge River (\$33,000).
- 2012 The Nature Conservancy (PI: **B. J. Peterson**) Monitoring of clam condition and gonadal index throughout the Great South Bay clam spawner sanctuaries (\$38,000).
- 2012 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Jamaica Bay National Recreational Area (\$35,500).
- 2012 Laurie Landeau Foundation and the Simons Foundation (PIs: C. J. Gobler, **B. J. Peterson**, E. Pikitch, D. Chapman) Shinnecock Bay Restoration Project (ShiRP) (\$3,000,000).
- 2011 Suffolk County (PIs: B. J. Peterson, S. Tettelbach and C. Smith) Restoration of Peconic Bay Scallop Populations and Fisheries (\$45,000)
- 2011 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Fire Island National Seashore (\$35,275).
- 2011 Hudson River Foundation (PI: **B. J. Peterson**) Investigating ecological restoration: enhancement of fisheries due to the presence of oyster reefs in the Hudson River (\$100,000).
- 2010 NYCDEC (PIs: H. Bokuniewicz, R. L. Swanson, K. Cochran and **B. J. Peterson**) Experimental evaluation of hydroperiod variation and organic loading on salt marsh health (\$150,000).
- 2010 Florida Fish and Wildlife (PI: **B. J. Peterson**) Is there a complete loss of genetic diversity for the *Thalassia testudinum* populations at the species margin in Florida's coastal waters? (\$196,041).
- 2010 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Jamaica Bay National Recreational Area (\$32,475).
- 2009 The Nature Conservancy (PI: **B. J. Peterson**) Genetic assessment of *Zostera marina* in NY waters (\$25,000).
- 2009 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Fire Island National Seashore (\$37,230)
- 2009 NY Seagrass (PIs: **B. J. Peterson** and C. Gobler) Cumulative impacts of multiple stressors on eelgrass populations in New York estuaries (\$208,000).
- 2009 Suffolk County (PIs: **B. J. Peterson** and C. Gobler) Restoration of Peconic Bay Scallop populations and fisheries (\$55,000).
- 2008 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Jamaica Bay National Recreational Area (\$35,000).
- 2008 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Experimental assessment of multiple stressors on groundwater herbicide toxicity for eelgrass (\$103,897).
- 2008 NY Department of Environmental Conservation (PI: **B. J. Peterson**) Experimental evaluation of groundwater on *Zostera marina* and associated epiphytic grazer mortality in Peconic Bay, NY. (\$60,077)
- 2008 The Nature Conservancy (PI: **B. J. Peterson**) Great South Bay Shallow Water Hard Clam survey (\$37,998)
- 2008 The Nature Conservancy (PIs: C. Gobler and **B. J. Peterson**) An Assessment of the Impact of Nutrient Loading, Bivalve Filtration and Phytoplankton Communities on Estuarine Resources. (\$122,932).

- 2007 National Park Service (PI: **B. J. Peterson**) Monitoring Estuarine Condition at Fire Island National Seashore. (\$39,530).
- 2007 NOAA-NURC (PIs: J. Valentine, D. Blackmon, K. Heck and **B. Peterson**) Marine Reserve Effectiveness in Restoring Coastal Food Webs: A Multitrophic Assessment Using Special Protection Areas in the Florida Keys National Marine Sanctuary. (\$89,543).
- 2007 Suffolk County (PI: **B. J. Peterson**) Habitat Influence on Bay Scallop survival (\$25,184).
- 2006 NY State Biodiversity Research Institute (PIs: M. Doall and **B. J. Peterson**) Benthic biodiversity in the Great South Bay: Effects of hard clam (*Mercenaria mercenaria*) restoration (\$32,652).
- 2006 NOAA. (PIs: C. Gobler and **B. Peterson**) Benthic and pelagic grazing of phytoplankton in Florida Bay: Impacts on algal blooms and variability due to changes in freshwater discharge (\$350,000).
- 2006 Environmental Protection Agency (PIs: **B. J. Peterson** and S. Tettelbach) Evaluation of bay scallop predation, growth and recruitment to different submerged aquatic vegetation (\$75,000).
- 2005 Environmental Superfund (PIs: C. Smith, K. Tetrault, S. Tettlebach, C. Gobler, M. Kretzman, **B. J. Peterson**, E. Himelblau, and R. Newell) Restoration of Peconic Bay Scallop Populations and Fisheries (\$1,751,036).
- 2004 CICEET (PIs: J. Warren and **B.J. Peterson**) Use of acoustic backscatter surveys to measure changes in submerged aquatic vegetation and habitat in a shallow-water estuary (\$19,890).
- 2003 NY Seagrass (PIs: **B.J. Peterson** and C. Gobler) Influence of ocean exchange on nutrients, plankton assemblages, submerged aquatic vegetation and shellfish within Long Island's south shore estuaries (\$281,896).
- 2001 NOAA. (PIs: J. Valentine, K. L. Heck, Jr. and **B. J. Peterson**) Marine reserve effectiveness in restoring coastal food webs: an experimental test using special protection areas and an ecological reserve in the Florida Keys National Marine Sanctuary. (\$183,581).
- 2000 Environmental Protection Agency. (PIs: J. W. Fourqurean and **B. J. Peterson**). "Seagrass monitoring in the Carysfort Ecological Reserve and the Western Sambos Ecological Reserve of the Florida Keys National Marine Sanctuary" (\$20,000).
- 1999 Florida Sea Grant. (PIs: **B. J. Peterson** and J. W. Fourqurean). "The role of filter feeding sponges in controlling phytoplankton blooms in Florida Bay and the concomitant effect on seagrass health" (\$214,000).
- 1994 Mississippi-Alabama Seagrass. "Interactions between suspension feeding bivalves and seagrass assemblages." (\$6000).
- 1992 Student Research Grant, University of Rhode Island (\$450).
- 1991 Lerner-Gray Fund for Marine Science (\$750).

ORGANIZED WORKSHOPS

- 2022 Session organizer, HEAT: Helping Eelgrass Adapt to Temperature, 14th International Seagrass Biology Workshop, Annapolis, MD.
- 2022 Workshop organizer, HEAT: Helping Eelgrass Adapt to Temperature, online.
- 2016 Participant, Mote Marine Lab, Scallop Restoration, St. Petersburg, FL
- 2009 Participant, National Park Service, Climate Change and Marine Systems Workshop, Kingston, RI
- 2008 Symposium co-organizer for the New York Seagrass Taskforce, Stony Brook, NY
- 2008 Symposium co-organizer for the 8th International Seagrass Biology Workshop "Plant-animal interactions in seagrass dominated systems", Bamfield Marine Station, Bamfield, Canada

INVITED SEMINARS

- 2024 Great Harbor Club Yacht Club Foundation, Nantucket, MA

- 2024 Long Island Sound Seagrass Collaborative, Avery Point, CT
- 2023 KAUST, Marine Science Division, Saudi Arabia
- 2019 Stony Brook University, Department of Ecology and Evolution, Stony Brook, NY
- 2019 New York State Ocean Acidification Task Force
- 2015 Stony Brook University, Our World Lecture Series, Stony Brook, NY
- 2012 Stony Brook University, Department of Ecology and Evolution, Stony Brook, NY
- 2012 Dauphin Island Sea Lab, Department of Marine Sciences, Dauphin Island, AL
- 2011 University of Virginia, Department of Environmental Sciences, Charlottesville, VA
- 2010 University of Florida, Department of Fisheries and Aquatic Sciences, Gainesville, FL
- 2008 Florida State University, Department of Biological Sciences, Tallahassee, FL
- 2007 Long Island University, Department of Biology, Brookville, NY
- 2004 Auburn University, Department of Biological Sciences, Auburn, AL
- 2004 University of Texas at Brownsville, Department of Biology, Brownsville, TX
- 2002 Romberg Tiburon Center for Environmental Studies, San Francisco, CA
- 2002 Stetson University, Department of Biology, DeLand, FL
- 2002 University of Tampa, Department of Biology, Tampa, FL
- 2001 University of Alabama at Birmingham, Department of Biology, Birmingham, AL
- 2001 Florida Marine Research Institute, Florida Fish and Wildlife Commission, Tampa, FL
- 2001 Dauphin Island Sea Lab, Graduate Student Seminar Series, Dauphin Island, AL

CONTRIBUTED PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

(Peterson mentored graduate * and undergraduate students †)

- 2024 **Peterson, B. J.** Groundwater as thermal refugia for eelgrass restoration. Restore America's Estuaries Coastal and Estuarine Summit, Annapolis, MD.
- 2023 **Peterson, B. J.**, S. Heck*, C. Clapp, P. Colarusso, B. Hancock, R. Hughes, J. Lefcheck, C. Nadeau and A. Stark. HEAT: Helping Eelgrass Adapt to Temperature: A Call to Action! 51st Benthic Ecology Meetings, Miami, FL.
- 2023 **Peterson, B. J.** Organisms as resource providers in seagrass communities: the role of positive interactions in community development, stability and restoration. KAUST, Saudi Arabia.
- 2022 **Peterson, B. J.**, D. Cottrell* and J. Lefcheck. Herbivory-induced facilitation increases from low to high stress: a paired observational and experimental test in seagrass. 50st Benthic Ecology Meetings, Portsmouth, NH.
- 2022 Chin, D. W.*, de Fouw, J., van der Heide, T., Cahill, B. V. † Katcher, K., Paul, V. J., Campbell, J. E. and B. J. Peterson. Facilitation of seagrasses by chemosymbiotic bivalves ranges from facultative to obligate. 50st Benthic Ecology Meetings, Portsmouth, NH.
- 2021 **Peterson, B. J.**, Doall, M. and C. Gobler. Dark Water Blues: Estuarine community response to an ecosystem-level hard clam manipulation. 26th Biennial Conference of the Coastal and Estuarine Research Federation (virtual)
- 2021 Carroll, J. M., Tettelbach, S. and B. J. Peterson. How might *Crepidula fornicata* be used for ecosystem restoration. 26th Biennial Conference of the Coastal and Estuarine Research Federation (virtual)
- 2021 Chin, D. W.*, de Fouw, J., van der Heide, T., Cahill, B. V. † Katcher, K., Paul, V. J., Campbell, J. E. and B. J. Peterson. Facilitation of seagrasses by chemosymbiotic bivalves ranges from facultative to obligate. 26th Biennial Conference of the Coastal and Estuarine Research Federation (virtual)
- 2021 **Peterson, B. J.** Seagrass enhancement through ecosystem manipulation (Shinnecock Bay Restoration Project). Gulf Shellfish Institute Clam Restoration Workshop (virtual)
- 2021 Chin, D. W.*, de Fouw, J., van der Heide, T., Cahill, B. V. †, Katcher, K., Paul, V. J., Campbell, J. E. and **B. J. Peterson**. Obligate and facultative facilitation of seagrasses by chemosymbiotic bivalves. 113th National Shellfish Association Annual Meeting. (virtual)

- 2021 Tettelbach, S. T., Bassem, A., Hughes, W. T., **Peterson, B. J.** and C. F. Smith. Mass die-off of adult bay scallops in New York following successful restoration: the looming specter of climate change. *113th National Shellfish Association Annual Meeting (virtual)*
- 2021 Doall, M., Cottrell, D*, **Peterson, B. J.** and C. J. Gobler. Increases in populations of the northern quahog (= hard clam) *Mercenaria mercenaria* following the creation of spawner sanctuaries in Shinnecock Bay, New York, USA. *113th National Shellfish Association Annual Meeting (virtual)*
- 2021 Chin, D. W.* , de Fouw, J., van der Heide, T, Cahill, B. †, Katcher, K., Paul, V. J., Campbell J., Kahn, B., Zarnock, C., Delany, F.* , Lowell, A.* and **B. J. Peterson**. Acute effects of acidification on sediment nutrient cycling in Shinnecock Bay, NY. *New England Estuarine Research Society (virtual)*
- 2020 O'Toole, K. A.* and **B. J. Peterson**. Living on the edge: analysis of *Zostera marina* and potential restoration. *Restore America's Estuaries 2020 National Coastal and Estuarine Virtual Summit*.
- 2019 Heck, S. M.* , **B. J. Peterson**. Implications of non-consumptive indirect effects of black sea bass on bivalve survival. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 O'Toole, K. A.* , **B. J. Peterson**. Seagrass restoration potential thorough development of a bio-optical model. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Chin, D.* , Q. Zhu, N. Volkenborn, M. Graffam, R. C. Aller, **B. J. Peterson**. Multi-optode imaging supports potential biogeochemically mediated mutualism between a temperate seagrass and a chemosymbiotic bivalve. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Reidenbach, L. B.* , D. M. Cottrell*, R. Kulp*, D. M. Hudson, **B. J. Peterson**. The interactive effects of ocean acidification and warming on the estuarine mudcrab, *Dyspanopeus sayi*. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Lowell, A.* , **B. J. Peterson**. An investigation into how *Zostera marina* modulates carbonate chemistry in the context of coastal acidification. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 DeLany, F.* , A. Lowell*, A. D. Stubler*, B. J. Peterson. Utilizing an in-situ flume to quantify the limit of *Zostera marina* pCO₂ foliar uptake. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Scannell, B. J.* , S. M. Heck*, **B. J. Peterson**. Evaluating temporal seagrass conditions and water quality trends at Fire Island National Seashore. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Cottrell, D. M.* , D. W. Chin*, K. A. O'Toole*, M. Doall, C. J. Gobler, B. J. Peterson. Muddy water's got the blues: a community response to an ecosystem-level manipulation. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Vlasak, T. †, S. T. Tettelbach, **B. J. Peterson**, R. Kulp*. Potential effects of chemical cues emitted by *Crepidula fornicata* on foraging by chemosensory predators. *25th Biennial Conference of the Coastal and Estuarine Research Federation, Mobile, AL*.
- 2019 Kyne, F., **B. J. Peterson**, M. Bond, S. Heck* and K. Aiken. Are MPAs working for top predators?: An island wide assessment of Jamaica's shark populations. *European Ecological Federation, Lisbon, Portugal*.
- 2019 **B. J. Peterson**, A. D. Stubler*, A. Lowell*. Seagrass OASiS: Seagrasses as Ocean Acidification Sanctuaries and Subsidies. *48th Benthic Ecology Meeting, St.Johns, Canada*.
- 2019 Chin, D.W.* , J. de Fouw, T. van der Heide, B. Cahill†, K. Katcher, J. Campbell, V. Paul, **B. J. Peterson**. Lucinid clams increase the resilience of seagrass to multiple environmental stressors. *48th Benthic Ecology Meeting, St.Johns, Canada*.
- 2019 O'Toole, K.* , **B. J. Peterson**. Seagrass restoration potential through development of a bio-optical model. *48th Benthic Ecology Meeting, St.Johns, Canada*.

- 2018 Doall, M. H., R. E. Kulp*, **B. J. Peterson**, C. Lobue, A. Starke, A. Griffith and C. J. Gobler. Are spawner sanctuaries an effective restoration strategy for the hard clam *Mercenaria mercenaria*: A comparison of two restoration efforts on Long Island, New York. *110th Annual Meeting of the National Shellfish Association, Seattle, WA*.
- 2018 **Peterson, B. J.**, L. J. Jackson* and B. T. Furman*. Filter feeding bivalves can enhance *Zostera marina* reproductive output. *110th Annual Meeting of the National Shellfish Association, Seattle, WA*.
- 2018 **Peterson, B. J.**, A. V. Lowell* and R. B. Wallace. Seagrass OASiS: Ocean Acidification Sanctuaries and Subsidies. *47th Benthic Ecology Meeting, Corpus Christi, TX*.
- 2018 Reidenbach, L. B.*, D. M. Cottrell*, R. E. Kulp*, D. M. Hudson and **B. J. Peterson**. The effects of ocean acidification on *Dyspanopeus sayi* predation. *47th Benthic Ecology Meeting, Corpus Christi, TX*.
- 2018 Vlasak, T. J.*, S. T. Tettelbach, **B. J. Peterson** and R. E. Kulp*. Stinky snails: Chemical cues of *Crepidula fornicata* and their effect on the foraging ability of chemosensory predators. *47th Benthic Ecology Meeting, Corpus Christi, TX*.
- 2017 Plaisted, H., E. Shields, J. Carr, N. T. Evans, S. Fox, S. Heck*, R. Hudson, K. Moore, H. Neckles, B. Neikirk, A. Novak, D. Parrish, **B. J. Peterson**, A. Tinoco and F. Short. Seagrass responses to environmental variables from Maryland to New Hampshire show impacts of ocean warming. *24th Biennial Conference of the Coastal and Estuarine Research Federation, Providence, RI*.
- 2017 **Peterson, B. J.**, A. Tinoco* and S. Heck*. Effects of Hurricane Sandy on Great South Bay: Assessing water quality, seagrass and nekton communities. *24th Biennial Conference of the Coastal and Estuarine Research Federation, Providence, RI*.
- 2017 Young, C., **B. J. Peterson** and C. J. Gobler. The bloom forming macroalgae, *Ulva rigida*, outcompetes the seagrass *Zostera marina* under elevated CO₂ conditions. *24th Biennial Conference of the Coastal and Estuarine Research Federation, Providence, RI*.
- 2017 Chin, D.* and **B. J. Peterson**. Positive and negative interactions between awning clams (*Solemya velum*) and eelgrass (*Zostera marina*). *24th Biennial Conference of the Coastal and Estuarine Research Federation, Providence, RI*.
- 2016 Floros, N. J. †, Kulp, R. E.* and **B. J. Peterson**. Evaluating Effects of Habitat Type on Foraging Efficiency. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Cashin, M. J. †, Kulp, R. E.* and **B. J. Peterson**. Preference in prey type and size of *Crepidula fornicata* and *Mytilus edulis* by the mesopredator *Dyspanopeus sayi*. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Vlasak, T. J. †, Kulp, R. E.* and **B. J. Peterson**. Comparing the survivorship of *Dyspanopeus sayi* in slipper snail and seagrass beds in Shinnecock Bay, New York. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Chin, D. W.* and **B. J. Peterson**. A commensalism between awning clams (*Solemya velum*) and eelgrass (*Zostera marina*) mediated by sulfide-oxidizing bacteria. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Heck, S. M.*, Tinoco, A. I.* and **B. J. Peterson**. Exploring how a suite of predators influences the vertical spatial distribution and survival of bay scallops. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Kulp, R. E.* and **B. J. Peterson**. Comparing functional response curves across a structural density gradient with increasing intraspecific competition. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 **Peterson, B. J.** All I want to do is HIDE around Sally: Ken's evolving thoughts on habitat complexity and species diversity. *45th Benthic Ecology Meeting, Portland, ME*.
- 2016 Stubler, A. D.* and **B. J. Peterson**. Ocean acidification accelerates dissolution and bioerosion in a coral rubble community. *45th Benthic Ecology Meeting, Portland, ME*.

- 2016 Tettelbach, S. T., **Peterson, B. J.**, Carroll, J. M.*, Furman, B. T.*, Hughes, S. W. T., Havelin, J. Tettelbach, C. R. H. and C. F. Smith. Restoration of bay scallop populations and fisheries in the Peconic Bays, New York. *45th Benthic Ecology Meeting, Portland, ME.*
- 2016 Tinoco, A. I.*, Heck, S. M.* and **B. J. Peterson**. Effects of Hurricane Sandy on Great South Bay, Long Island: Assessing water quality, seagrass and nekton communities. *45th Benthic Ecology Meeting, Portland, ME.*
- 2016 Warren, J. D., **Peterson, B. J.**, Carroll, J. M.* and A. D. Stubler*. Recovery, Resiliency and Reggie: Is the Discovery Bay, Jamaica coral reef ecosystem recovered and able to withstand natural perturbations? *45th Benthic Ecology Meeting, Portland, Maine.*
- 2015 Furman, B. T.*, Tinoco, A. I.* and **B. J. Peterson**. SAV, topography and flow characteristics in the Upper, Tidal Hudson River: Progress toward a predictive habitat model. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 **Peterson, B. J.**, Jackson, L. J.* and B. T. Furman*. The plant-animal interactions your mamma warned you about: suspension-feeding bivalves effecting *Zostera marina* reproductive growth spurts. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Chin, D. W.* and **B. J. Peterson**. Investigating a potential mutualism between *Solemya velum* and *Zostera marina* mediated by symbiotic sulfide –oxidizing bacteria. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Stubler, A. D.*, Furman, B. T.* and **B. J. Peterson**. Sponge erosion under acidification and warming scenarios: differential impacts on living and dead coral. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Warren, J. D., Stubler, A. D.*, Carroll, J. M.* and **B. J. Peterson**. What’s making all that racket? Pairing video and passive acoustic monitoring to identify coral reef fish sounds and feeding behaviors. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Floros, N. J.†, Kulp, R. E.* and **B. J. Peterson**. Investigating how habitat density can alter interspecific competition in mesopredators. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Carroll, J. M.*, Stubler, A. D.*, **Peterson, B. J.** and C. M. Finelli. Is the grass always greener on the other side? A tale of two herbivory studies from Discovery Bay, Jamaica. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Kulp, R. E.*, Petraitis, P. S. and **B. J. Peterson**. Comparing functional responses of a mesopredator across a habitat density gradient. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2015 Gomez, E.*, **Peterson, B. J.**, Borrett, S. and M. La Peyre. A dynamic ecological model using oyster reef bioenergetics to measure and predict secondary production. *44th Benthic Ecology Meeting, Quebec City, Canada.*
- 2014 Gomez, E.* **Peterson, B. J.** Borrett, S. and M. La Peyre. A dynamic ecological and economic model linking oyster reef bioenergetics to final ecosystem services. *A Community on Ecosystem Services Conference*
- 2014 Stubler, A. D.* and **B. J. Peterson**. The impact of anthropogenically enhanced sedimentation on the succession of coral reef organisms. *43rd Benthic Ecology Meeting, Jacksonville, FL.*
- 2014 Kulp, R.* and **B. J. Peterson**. Utilizing video recording tools to examine the occurrence of dominance during intraspecific competition. *43rd Benthic Ecology Meeting, Jacksonville, FL.*
- 2014 Jackson, L. J.* and **B. J. Peterson**. Morphological response of *Zostera marina* (eelgrass) reproductive shoots to increased porewater nutrient availability within a developing meadow. *43rd Benthic Ecology Meeting, Jacksonville, FL.*
- 2014 Chin, D.W.*, B. T. Furman*, A. D. Stubler* and **B. J. Peterson**. Succession and the Microbe-

- Macroinvertebrate Community in Small Seagrass Patches. 43rd Benthic Ecology Meeting, Jacksonville, FL.
- 2013 Furman, B. T.*, L. Jackson*, E. Bricker, M. Waycott and **B. J. Peterson**. The interactive effects of pollination and seed dispersal distance on the dynamics of sexual recruitment in an establishment phase *Zostera marina* meadow, Shinnecock Bay, NY. Coastal and Estuarine Research Federation, San Diego, CA
- 2013 **Peterson, B. J.** and A. R. Duckworth. Effects of seawater temperature and pH on the boring rates of the sponge *Cliona celata*. 42nd Benthic Ecology Meetings, Savannah, GA.
- 2013 Voci, J.†, B. T. Furman* and **B. J. Peterson**. Examining the impacts of land use along the Forge River on benthic communities in the past, present and future. 42nd Benthic Ecology Meetings, Savannah, GA.
- 2013 Kulp, R. E.*, J. Carroll* and **B. J. Peterson**. Strength in numbers? Evaluating the role of mesopredators in the NY Metropolitan Region. 42nd Benthic Ecology Meetings, Savannah, GA.
- 2013 Jackson, L. J.*, B. T. Furman*, J. M. Carroll* and **B. J. Peterson**. *Zostera marina* seed production and consumption in a patchy landscape of Shinnecock Bay, NY. 42nd Benthic Ecology Meetings, Savannah, GA.
- 2012 **Peterson, B. J.**, S. T. Tettelbach, J. M. Carroll*, S. W. T. Hughes, D. M. Bonal, A. J. Weinstock, J. R. Europe, B. T. Furman* and C. F. Smith. Priming the larval pump: resurgence of bay scallop recruitment, populations and fisheries following initiation of intensive restoration efforts. 41st Benthic Ecology meeting, Norfolk VA.
- 2012 Carroll, J. M.*, L. J. Jackson* and **B. J. Peterson**. The effects of habitat and predation on bay scallop populations. 41st Benthic Ecology meeting, Norfolk VA.
- 2012 Stubler, A. D.* and **B. J. Peterson**. Species interactions may amplify effects of ocean acidification on coral reefs. 41st Benthic Ecology meeting, Norfolk VA.
- 2012 Jackson, L. J.*, B. Furman*, J. M. Carroll* and **B. J. Peterson**. Landscape-scale effects of *Zostera marina* seed production in Shinnecock Bay, NY 41st Benthic Ecology meeting, Norfolk VA.
- 2012 Kulp, R. E.*, B. T. Furman*, J. M. Carroll* and **B. J. Peterson**. Ecosystem services of restored Hudson River oyster reefs. 41st Benthic Ecology meeting, Norfolk VA.
- 2012 Carroll, J. M.* and **B. J. Peterson**. Are multiple predator effects on a shared prey influenced by habitat complexity. 104th National Shellfish Association meeting, Seattle, WA.
- 2012 Carroll, J. M.* and **B. J. Peterson**. Balancing the edge effects budget: bay scallop recruitment across a seagrass edge. US International Association for Landscape Ecology Symposium. Newport, RI.
- 2011 Carroll, J. M.* and **B. J. Peterson**. Are seagrass edges ecological traps for post-set bay scallops? Implications for restoration. 21st Coastal and Estuarine Research Federation meeting, Daytona Beach, FL.
- 2011 Carroll, J. M.*, R. Kulp*, P. Miller† and **B. J. Peterson**. Ecosystem services of restored Hudson River oyster reefs. Hudson River Foundation Oyster Restoration Research Project sub-group meeting, New York, NY
- 2011 Stubler A. D.* and **B. J. Peterson**. Does sedimentation influence coral community succession? 40st Benthic Ecology meeting, Mobile. AL.
- 2010 **Peterson, B. J.**, S. J. Brisbin* and B. T. Furman*. Effect of a prolonged brown tide (*Aureococcus anophagefferens*) on interannual *Zostera marina* densities within a New York estuary. 39th Benthic Ecology Meetings, Wilmington, NC.
- 2010 Carroll, J. M.*, S. T. Tettelbach and **B. J. Peterson**. Recruitment of bay scallops, *Argopecten irradians*, to artificial seagrass near a spawner sanctuary. 39th Benthic Ecology Meetings, Wilmington, NC.

- 2010 Wall, C. C.*, **B. J. Peterson** and C. J. Gobler. The interactive effects of nutrient loading and suspension feeding on estuarine resources. 39th Benthic Ecology Meetings, Wilmington, NC.
- 2010 **Peterson, B. J.** and A. M. Stubler*. Cumulative impacts of multiple stressors on *Zostera marina* populations in New York estuaries. 39th Benthic Ecology Meetings, Wilmington, NC.
- 2010 Brisbin, S. J.* and **B. J. Peterson**. Genetic diversity and gene flow in *Zostera marina* populations in Great South Bay, New York. 39th Benthic Ecology Meetings, Wilmington, NC.
- 2010 Rodgers, B. S.*, M. J. Harke and **B. J. Peterson**. Eelgrass (*Zostera marina*) growth, photosynthetic efficiency and survival in response to groundwater exposure with nitrate and the herbicide Diuron. 39th Benthic Ecology Meetings, Wilmington, NC.
- 2009 Neckles, H. A., S. Kopp, **B. J. Peterson** and P.S. Pooler. Integrating Scales of Seagrass Monitoring. Coastal and Estuarine Research Federation 20th Biennial Conference, Portland, OR.
- 2009 **Peterson, B. J.** The positive impact of suspension feeding bivalves on seagrass communities in eutrofied estuaries. 101st National Shellfish Association meeting, Savannah, GA. (*Invited speaker*)
- 2009 Russell, S.† and **B. J. Peterson**. Competitive exclusion of *Uca pugilator* by *Hemigrapsus sanguineus*: The expected effects of an invasive species on the ecosystem ecology of Long Island salt marshes. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX. (*REU fellow*)
- 2009 Lavelle, K.†, J. M. Carroll*, **B. J. Peterson**. Can *Codium fragile* provide juvenile bay scallops an above-bottom refuge from benthic predation? 38th Annual Benthic Ecology Meeting, Corpus Christi, TX. (*Frankel fellow*)
- 2009 Wall, C. C.*, **B. J. Peterson** and C. J. Gobler. The growth of estuarine resources (*Zostera marina*, *Mercenaria mercenaria*, *Crassostrea virginica*, *Argopecten irradians*, *Cyprinodon variegates*) in response to nutrient loading and enhancement of suspension-feeding by adult shellfish. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX.
- 2009 Carroll, J. M.* and **B. J. Peterson**. Can the introduced *Codium fragile* serve as a predation refuge for the native bay scallop, *Argopecten irradians*? 38th Annual Benthic Ecology Meeting, Corpus Christi, TX.
- 2009 Rodgers, B. S.* and **B. J. Peterson**. Impacts of groundwater flow on eelgrass, *Zostera marina*, in New York estuaries. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX.
- 2009 Stubler, A. M.* and **B. J. Peterson**. The impacts of anthropogenic sedimentation on sponge recruitment and growth in Discovery Bay, Jamaica. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX.
- 2009 **Peterson, B. J.**, J. M. Carroll* and C. C. Wall*. The facilitation of seagrass (*Zostera marina*) growth and productivity by hard clams (*Mercenaria mercenaria*) via light and nutrient stress alleviation. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX.
- 2009 **Peterson, B. J.**, B. S. Rodgers*, S. Brisbin* and J. Myers†. Assessing estuarine condition through water quality and seagrass monitoring at Fire Island National Seashore, NY. Status, Trends, and Conservation of Eelgrass in Atlantic Canada and the Northeastern United States. Portland, ME. (*Invited speaker*)
- 2008 **Peterson, B. J.** Plant-animal interactions in seagrass dominated systems. 8th International Seagrass Biology Workshop. Banfield, British Columbia. (*Invited speaker*)
- 2008 Stubler, A. M.*, **B. J. Peterson**, C. C. Wall* and C. J. Gobler. Groundwater impacts on seagrass growth, productivity and herbivory. 37th Annual Benthic Ecology Meeting, Providence, RI. (*awarded best student oral presentation*)
- 2008 Carroll, J. M.*, C. J. Gobler and **B. J. Peterson**. Resource limitation of eelgrass in New York estuaries: nutrient stress alleviation by hard clams. 37th Annual Benthic Ecology Meeting, Providence, RI. (*awarded best student oral presentation*)

- 2008 Carroll, J. M.*, **B. J. Peterson** and S. T. Tettelbach. A Bay Scallop's brave new world: Can the introduced *Codium fragile* act as an eelgrass surrogate? 100th Annual National Shellfish Association Meeting, Providence, RI.
- 2007 Blachly, C. R. † and **B. J. Peterson**. Asian shore crab: a benevolent invader. Ocean Sciences meeting (*REU fellow*)
- 2007 Wall, C. C.*, **B. J. Peterson** and C. J. Gobler. A light in murky waters: bivalve filtration facilitates growth of eelgrass in a eutrophied environment. 36th Benthic Ecology Meeting, Atlanta, GA.
- 2007 Rountos, K.* and **B. J. Peterson**. The effects of temperature and bioturbation on porewater sulfide concentrations in Great South Bay (NY) sediment. 36th Benthic Ecology Meeting, Atlanta, GA.
- 2007 Fournier, A.* and **B. J. Peterson**. Burrow competition between the native fiddler crab, *Uca* spp., and the invasive Asian crab, *Hemigrapsus sanguineus*. 36th Benthic Ecology Meeting, Atlanta, GA.
- 2007 Carroll, J. M.*, **B. J. Peterson**, C. J. Gobler., M. Weiss and P. Curran. Can hard clams (*Mercenaria mercenaria*) ameliorate anthropogenic light stress for eelgrass (*Zostera marina*) through increased nutrient availability? 36th Benthic Ecology Meeting, Atlanta, GA.
- 2007 **Peterson, B. J.**, J. F. Valentine and K. L. Heck. Dine out, dung in: habitat modification and facilitation of benthic plant communities by reef resident fish. 36th Benthic Ecology Meeting, Atlanta, GA.
- 2007 Wall, C. C.*, C. J. Gobler and **B. J. Peterson**. The role of sponges in regulating algal blooms in Florida Bay, FL, USA. Estuarine Research Federation, Providence, RI.
- 2007 Wall, C. C.*, **B. J. Peterson** and C. J. Gobler. The facilitation of eelgrass (*Zostera marina*) growth by suspension-feeding bivalves in an experimental setting. Estuarine Research Federation, Providence, RI.
- 2006 Valentine, J. F., K. L. Heck and **B. J. Peterson**. Impacts of overfishing on trophic links at the coral-seagrass interface: an evaluation using “no-take” zones in the Florida Keys. 35th Benthic Ecology Meeting, Quebec, Canada.
- 2005 Weiss, M. B., P. B. Curran, C. J. Gobler and **B. J. Peterson**. Impacts of ocean exchange on phytoplankton community composition, water quality and growth of juvenile hard clams (*Mercenaria mercenaria*) in a lagoon estuary. Estuarine Research Federation, Norfolk, VA.
- 2005 **Peterson, B. J.**, C. J. Gobler, J. M. Carroll*, M. B. Weiss and P. B. Curran. Influence of ocean exchange on nutrients, plankton assemblages, submerged aquatic vegetation and shellfish within Long Island's south shore estuaries. 34th Benthic Ecology Meeting, Williamsburg, VA.
- 2004 Warren, J. D. and **B. J. Peterson**. Use of a 600-kHz ADCP to characterize submerged aquatic vegetation in a very shallow estuary. 148th Meeting of the Acoustical Society of America, San Diego, CA.
- 2004 Goecker, M., J. F. Valentine, K. L. Heck, D. Blackmon, J. Christian, R. M. Kroutil, K. D. Kirsch, **B. J. Peterson**. Cross-habitat energy exchange at coral-seagrass interface: experimental evidence that seagrass production subsidizes coral reef food webs. 6th International Seagrass Workshop, Townsend, Australia.
- 2004 Valentine, J. F., K. L. Heck, M. Beck, **B. J. Peterson**, D. Blackmon, J. Christian, M. Goecker, R. M. Kroutil. Impacts of overfishing on marine ecosystems: experimental evidence that large coral reef piscivores once controlled the structure and intensity of trophic interactions in seagrass-coral reef landscapes. Estuarine Research Federation, Seattle, WA.
- 2004 **Peterson, B. J.** The potential of the hard clam, *Mercenaria mercenaria*, to fertilize the seagrass, *Zostera marina*. 33rd Benthic Ecology Meeting, Mobile, AL.

- 2003 Fourqurean, J. W., J. N. Boyer, **B. J. Peterson**, M. J. Durako and L. N. Hefty. The response of seagrass distribution to changing water quality: predictive models from monitoring data. Florida Bay Science Conference, Key Largo, FL.
- 2003 **Peterson, B. J.** Organisms are resource providers: a tale of two suspension feeding species. 32nd Benthic Ecology Meeting, Orlando, FL.
- 2003 Valentine, J. F., K. L. Heck, **B. J. Peterson**, D. Blackmon, J. Christian, M. Goecker, G. Fioravanti and R. M. Kroutil. Habitat reconstruction in the nation's coastal ecosystems: if you build it will they come? Submerged Habitat Restoration Workshop, Mote Marine Lab, Sarasota, FL.
- 2002 **Peterson, B. J.** Disturbance and recovery following catastrophic grazing: studies of a successional chronosequence in a seagrass bed. 31st Benthic Ecology Meeting, Orlando, FL.
- 2001 **Peterson, B. J.** Suspension feeding bivalves as resource providers. Marine Policy Meeting, Anchorage, AK. (*Invited Speaker*)
- 2001 **Peterson, B. J.** and J. W. Fourqurean. Can sponges control phytoplankton blooms in Florida Bay? Estuarine Research Federation, St. Petersburg, FL.
- 2001 **Peterson, B. J.** The positive role of suspension feeding bivalves on seagrass productivity. Pacific Coast Shellfish Growers Association Annual Conference, Silverdale, WA. (*Invited Speaker*)
- 2001 **Peterson, B. J.** Organisms as resource providers: a tale of two suspension feeding organisms in seagrass communities. Dauphin Island Sea Lab Seminar Series (*Invited Speaker*)
- 2001 **Peterson, B. J.** and J. W. Fourqurean. Can sponges control phytoplankton blooms in Florida Bay? Florida Bay Science Conference, Key Largo, FL.
- 2001 Fourqurean, J. W., J. N. Boyer, **B. J. Peterson**, M. J. Durako and L. N. Hefty. The statistical relationship between benthic habitats and water quality in Florida Bay. Florida Bay Science Conference, Key Largo, FL.
- 2001 Carlson, P. R., L. A. Yarbro, **B. J. Peterson**, J. Davis and B. Davis. Recovery potential of seagrasses in Florida Bay: The contribution of phytoplankton blooms, sediment resuspension and epiphytes to light attenuation. Florida Bay Science Conference, Key Largo, FL.
- 2000 **Peterson, B. J.** and J. W. Fourqurean. The potential role of sponges in controlling phytoplankton blooms in Florida Bay and the concomitant effect on seagrass communities. Greater Everglades Ecosystem Restoration meetings, Naples, FL.
- 2000 **Peterson, B. J.** and K. L. Heck. The role of suspension feeding bivalves in elevating seagrass productivity. National Shellfish Association, Seattle, WA. (*Invited speaker*)
- 1999 J. W. Fourqurean, **B. J. Peterson**, A. Willsie, C. D. Rose, M. J. Durako and J. C. Zieman. Seagrass status and trends monitoring program in Florida Keys National Marine Sanctuary. Florida Bay Conference, Key Largo, FL.
- 1998 **Peterson, B. J.** and J. W. Fourqurean. Spatial variability of *Thalassia testudinum* population growth dynamics in south Florida. Estuarine Research Federation, New Orleans, LA.
- 1998 Rose, C. D., **B. J. Peterson**, L. M. Rutten, K. M. Cuniff and J. W. Fourqurean. The effects of catastrophic grazing by the sea urchin *Lytechinus variegatus* on a seagrass community in south Florida. Ecology Society of America meeting, Spokane, WA.
- 1998 **Peterson, B. J.** and K. L. Heck. Benthic-pelagic link or increased habitat complexity? The role of suspension feeding bivalves in elevating seagrass productivity. 27th Benthic Ecology Meeting, Melbourne, FL.
- 1997 **Peterson, B. J.** and K. L. Heck. Interactions between suspension feeding bivalve, *Modiolus americanus*, and seagrass assemblages, *Thalassia testudinum*. Estuarine Research Federation, Providence, RI. (*awarded best student oral presentation*)

- 1995 **Peterson, B. J.** and K. L. Heck. Benthopelagic link: the role of suspension feeding bivalves in seagrass assemblages. Estuarine Research Federation, Corpus Christi, TX.
- 1995 Thompson, K. R., **B. J. Peterson**, J. H. Cowan and K. L. Heck. Comparison of predation pressure in temperate and subtropical seagrass based on chronographic tethering. Estuarine Research Federation, Corpus Christi, TX.
- 1995 **Peterson, B. J.** and K. L. Heck. Energy flow from the water column to the benthos: the influence of suspension feeding bivalves on seagrass assemblages. 24th Benthic Ecology Meeting, New Brunswick, NJ
- 1993 **Peterson, B. J.** Morphology and ultrastructure of the feeding apparatus of *Sayella fusca* (C. B. Adams, 1839) an ectoparasitic gastropod. American Malacological Union, Berkley, CA.

TEACHING AND EDUCATION

Mentored Post-doctoral Fellow

Stephen M. Heck (Ph.D. 2023, Stony Brook University)
 Kara Gadeken (Ph.D. 2022, University of South Alabama)
 Eric Bricker (Ph.D. 2009, University of Virginia)

Mentored Graduate Students

Anthony Murphy-Neilson (M.S. *current*), Sara Stagner (M.S. *current*), Lucas Iudica (Ph.D. *current*), Lucy Plessis-Belair (Ph.D. *current*), Jonah Morreale (Ph.D. *current*), Michael Wauson (Ph.D. *current*), Alyson Lowell (Ph.D. *current*), Lucas Wong (M. S. *current*), Brittney Scannell (Ph.D. *current*), Stephen Heck (Ph.D. 2023), Jessica MacGregor (M.S. 2023), Flynn Delany (M.S. 2023), Allison Ruglia (Ph.D. 2022), Dylan Cottrell (M. S. 2021), Kaitlyn O'Toole (M.S. 2020), Diana Chin (Ph.D. 2019 *NSF graduate fellow*), Rebecca Kulp (Ph.D. 2018), Amanda Tinoco (M.S. 2017), Elizabeth Gomez (M.S. 2015), Amber M. Stubler (Ph.D. 2015), Brad Furman (Ph.D. 2015), Lisa Jackson (M.S. 2014), , John M. Carroll (Ph.D. 2012), Charles C. Wall (Ph.D. 2010), Brooke S. Rodgers (M.S. 2010), Sterling Brisbin (M.S. 2010), Konstantine Rountos (M.S. 2008), Alexa Fourier (M.S. 2007)

Graduate student honors: Fulbright Fellowship (Konstantine Rountos); Rolex Scholar (Sterling Brisbin), Jerry Schubel Fellowship (Charles Wall), Liblet Scholar (Brooke Rodgers), Smithsonian Tropical Research Fellowship (Amber Stubler), Liblet Scholar (Amber Stubler), Smithsonian Pre-doctoral Fellowship (Amber Stubler), NSF Graduate Fellowship (Diana Chin), NSF GROW (Diana Chin), Smithsonian Pre-doctoral Fellowship (Diana Chin), Smithsonian Pre-doctoral Fellowship (Alyson Lowell), Knauss Fellowship (Alyson Lowell).

Best Student Oral Presentations

2009 National Shellfish Association – John Carroll
 2009 Benthic Ecology Meetings – Amber Stubler
 2008 Estuarine Federation Meetings – John Carroll

Graduate committee member for: Laine Sylvers (Ph.D. 2023; Stony Brook University), Jeff Kraemer (M.S. 2023; Stony Brook University), Tracey Vlasak (M.S. 2019; Long Island University), Marissa Valquez (M.S. 2018; Long Island University), Craig Young (M.S. 2018; Stony Brook University), Joe Myers (M.S. 2011; University of South Alabama), Dennis Bonal (M.S. 2011; Long Island University), Robert Gutierrez (M.S. 2009; University of South Alabama), Andrew Weinstock (M.S. 2009; Long Island University), Sara Petrochic (M.S. 2007; Long Island University)

Mentored Undergraduate Students (190 total)

Rose Von Eckartsberg (2024; Stony Brook), Madeline Smyth (2024; Stony Brook), Tomoya Shinohara (2024; Stony Brook), Natalie Mogaburo Kessler (2024; Stony Brook), Madoka Kondo (2024; Stony Brook), Keri Jean (2024; Stony Brook), Jenna White (2024; Stony Brook), Jaden McAleese (2024; Stony Brook), Michelle Lee (2024; Stony Brook), Samara Steinbock (2023; Stony Brook), Mallory Reading (2023; Stony Brook), Alayna Radner (2023; Stony Brook), Aelish Mullaney (2023; Stony Brook), Erin Fix (2023; Stony Brook), Luca D'Anna (2023; Stony Brook), Chrissy Woodard (2023; Stony Brook), Daniel Spanbauer (2023; Stony Brook), Abigail McKinney (2023; Stony Brook), Samuel Katz (2023; Stony Brook), Alexandra Uszynski (2022; Stony Brook),

James Quiroz (2022; Stony Brook), Erin Hwong (2022; Stony Brook), Kayla Cook (2022; Stony Brook), Joseph Zhao (2021; Stony Brook), Lucas Wong (2021; Stony Brook), Jessica Salmon (2021; Stony Brook), Jessica Prosser (2021; Stony Brook), Benjamin Nichols (2021; Stony Brook), Jonathan Lubiantoro (2021; Stony Brook), Tongyu Liu (2021; Stony Brook), Jonathan Lim (2021; Stony Brook), Lucas Iudica (2021; Stony Brook), Ene Tristan (2021; Stony Brook), Dana Clare (2021; Stony Brook), Cyd Bloomfield (2021; Stony Brook), Beatrice Wicker (2020; Stony Brook), Aaron Ohm (2020; Stony Brook), Jonathan Lim (2020; Stony Brook), Amanda Tepper (2020; Stony Brook), Jessica Gries (2020; Stony Brook), Joseph Zhao (2020; Stony Brook), Benjamin Nichols (2020; Stony Brook), Tongyu Liu (2020; Stony Brook), Faith Kellum (2020; Stony Brook), LeeAnne Dion (2020; Stony Brook), Christina Lipari (2020; Stony Brook), Sadie Woloson (2020; Stony Brook), Anna Kolanovic (2020; Stony Brook), Michelle Ng (2020; Stony Brook), Xinyue Nam (2020; Stony Brook), Clara Gramazio (2020; Stony Brook), Jenna Inglese (2020; Stony Brook), Sandra Reyes (2020; Stony Brook), Jasmine Okolie (2020; Stony Brook), Jessica Salmon (2020; Stony Brook), Paul Kim (2020; Stony Brook), Jonathan Lubiantoro (2020; Stony Brook), Lucas Iudica (2020; Stony Brook), Sarah Kelly (2020; Stony Brook), Sierra Drury (2020; Stony Brook), Clare Dana (2020; Stony Brook), Alex Calaci (2020; Stony Brook), Cyd Bloomfield (2020; Stony Brook), Michael Streit (2020; Stony Brook), Jennifer Esch (2020; Stony Brook), Flynn Delany (2020; Stony Brook), Jessica Prosser (2020; Stony Brook), Joshua Whitehead (2020; Stony Brook), Allison Hall (2019; Stony Brook), Jennifer Esch (2019; Stony Brook), Courtney Stuart (2019; Stony Brook), Julia Lopez (2018; Stony Brook), Siobhan Keeling (2018; Stony Brook), Delphine Mossman (2018; Stony Brook), Sabrina Mayrose (2018; Stony Brook), Flynn Delany (2018; Stony Brook), Lucas Wong (2018; Stony Brook), Adam Dean (2018; Stony Brook), James Sansvero (2018; Stony Brook), Ashley Bean (2018; Stony Brook), Nicole Kleinas (2017; Georgia Southern University), Lucy DiBenedetto (2017; Stony Brook), Brittney Scannell (2017; Stony Brook), Julia Petersen (2017; Stony Brook), Kaitlyn Fenster (2017; Stony Brook), Brad McGuire (2017; Stony Brook), Kyle Chadderton (2017; Stony Brook), Shane Gallimore (2017; Stony Brook), Brianna Cahill (2017; Stony Brook), Chris Wozny (2016; Stony Brook), Jade Blennau (2016; Stony Brook), Chris Meyer (2016; Stony Brook), Shannon Kanidinc (2016; Stony Brook), Lila Glansberg (2016; Stony Brook), Lisa Chong (2016; Stony Brook), Joseph Unsworth (2016; Stony Brook), Emily Kollmer (2015; Stony Brook), Victoria Wood (2015; Stony Brook), Will Wied (2015; Stony Brook), Horia Popa (2015; Stony Brook), Nicola Kriefall (2015; Stony Brook), Taylor Apter (2015; Stony Brook), Michael Cashin (2015; Stony Brook), Nikolas Floros (2015; Stony Brook), Tim Palmer (2015; Stony Brook), Tracey Vlasak (2014; Stony Brook), Pamela Santapaola (2014; Stony Brook), Jessica Quinlan (2014; Stony Brook), Kaitlyn O'Toole (2014; Stony Brook), Brooke Morrell (2014; Stony Brook), Roxane Javadi (2014; Stony Brook), Julia Donaton (2014; Stony Brook), Jose Deniz (2014; Stony Brook), Andrew Boardman (2013; Stony Brook), Stephen Hess (2013; Stony Brook), Emily Markowitz (2013; Stony Brook), Nikos Floros (2013; Stony Brook), Ethan Idler (2013; Stony Brook), Kyle Chadderton (2013; Stony Brook), Asha Armstrong (2013; Stony Brook), Jocelyn Tallmon (2013; Stony Brook), John Holden (2012; Stony Brook), Gene Oh (2012; Stony Brook), Carlos Barbosa (2012; Stony Brook), Eric Yee (2012; Stony Brook), Thomas Theophilidis (2012; Stony Brook), Christopher Taliento (2012; Stony Brook), Chaucey Hoffman (2012; Stony Brook), Amanda George (2012; Stony Brook), Allison Bauser (2012; Stony Brook), Paul Ligorski (2011; Stony Brook), Jennifer Voci (2011; Stony Brook), Peter Miller (2011; Stony Brook), Victoria D'Ambrose (2011; Stony Brook), Sheuli Molla (2010; Stony Brook), Richard Rahm (2010; Stony Brook), Jo Anne Siskidis (2009; Stony Brook), Morgan Brunelle (2009; Stony Brook), Ashley Ardillo (2009; Stony Brook), Katherine Lavelle (2009; Stony Brook, Frankel Summer Fellow), William Dolgin (2008; Stony Brook), Annie Coccari (2008; Stony Brook), Shanna Madsen (2008; Stony Brook), Sara Russell (2007; University of Minnesota, REU fellow), Brooke Rodgers (2007; Stony Brook), Christina Bonomo (2006; Stony Brook), Katheryn Marie Peltier (2006; Stony Brook), Christine Blachly (2006; Emory University, REU fellow), Raiza Ramos (2005; Stony Brook), Richard Ames (2005; Stony Brook)

Courses taught

Stony Brook University: Experimental Marine Biology (undergraduate), Coastal Oceanography (undergraduate), Aquaculture (undergraduate), Introduction to Scuba Diving (undergraduate), Tropical Marine Ecology (undergraduate travel course), Benthic Ecology (graduate), Seagrass Community Ecology (graduate), Introduction to Scientific Diving (undergraduate and graduate)

Southampton College: Marine Ecology (undergraduate), Biometry (undergraduate), Field Biology (undergraduate), Estuaries (undergraduate), Marine Conservation (undergraduate)

Florida International University: Evolution and Development (graduate)

PEER REVIEW

Journals: Ecology, Ecological Applications, Ecological Monographs, Limnology and Oceanography, Journal of Ecology, Oecologia, OIKOS, Marine Ecology Progress Series, Estuaries, Bulletin of Marine Science, Marine Biology, Journal of Experimental Marine Biology and Ecology, Coral Reefs, Estuaries and Coasts.

Proposals:

NSF – Biological Oceanography

NOAA - CAMEO

Sea Grant – Rhode Island, Connecticut, Maryland, New Jersey, Virginia

RESEARCH SKILLS

100GRT Master Mariner; PADI Open Water Scuba Instructor; DAN First Aid for Professional Divers Instructor; Experimental statistics (Regression Analysis, Multivariate and Spatial Analysis); ArcGIS; R programming language; NOAA/NURP Research Diver; AAUS Scientific Diver (>6200 dives); Stony Brook University Dive Safety Officer, Department of the Interior small boat operator