

Professional Curriculum Vitae

Peter M. Buston

Fields of Interest

Evolutionary Ecology, Behavioral Ecology, Molecular Ecology, Theoretical Ecology, Marine Ecology

Current Position

Associate Professor. Boston University, Department of Biology and Marine Program.

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Education History

1994 - 2002 Ph.D. Neurobiology and Behavior, Cornell University, Ithaca, NY, USA.

1990 - 1993 B.A. Honors. Zoology, Oxford University, Oxford, UK.

Employment Record

2025 - Associate Dean of the Faculty, Natural Sciences, Boston University, USA.

2019 - 2025 Director of the Boston University Marine Program, Boston, USA.

2017 - 2022 Chair of the Dive Control Board, Boston University, Health and Safety, Boston, USA.

2017 - 2019 Director of Graduate Studies, Boston University, Department of Biology, Boston, USA.

2016 - 2019 Associate Director of the Boston University, Marine Program, Boston, USA.

2016 - Associate Professor, Boston University, Department of Biology, Boston, USA.

2013 - 2016 Chair of Graduate Committee, Boston University, Department of Biology, Boston, USA.

2010 - 2016 Assistant Professor, Boston University, Department of Biology, Boston, USA.

2006 - 2009 Ramón y Cajal Research Fellow, Estación Biológica de Doñana, Sevilla, Spain.

2002 - 2005 NCEAS Postdoctoral Fellow, NCEAS, Santa Barbara, CA, USA.

Honors & Awards

2020 Invited Plenary Speaker.
Larval Fish Conference 44, Mystic, Connecticut, USA.

2015 Dean's Award for Excellence in Graduate Education.
College of Arts and Sciences, Boston University, USA.

2005 Ramón y Cajal Research Fellowship to conduct independent research.
Ministerio de Educación y Ciencia, Spain.

2002 NCEAS Postdoctoral Fellowship to conduct independent research.
National Science Foundation and University of California, USA.

2001 Whittaker Award for the best graduate student paper.
Department of Ecology and Evolutionary Biology, Cornell University, USA.

2000 Excellence Fellowship in recognition of outstanding graduate work.
College of Agriculture and Life Sciences, Cornell University, USA.

2000 Clark Distinguished Teaching Award.
College of Arts and Sciences, Cornell University, USA.

1999 Outstanding Graduate Teaching Assistant Award.
Department of Neurobiology and Behavior, Cornell University, USA.

Research

Publications in print – Peer-reviewed articles (total = 85; citations = 4672; h-index = 34)

^P Postdoctoral Associate, ^D Doctoral Student, ^M Masters Student and ^U Undergraduate Student

85. Vizer, L.^D, Alvarado, D.^U, Bove, C.^P, Herrera, M.^P, Hughes, A., Thompson, K., Bogdanowicz, S., Laudet, V., Davies, S. & **Buston, P.** (2026) Plasticity associated with adoption of social roles in clown anemonefish.
eLife in press.
84. Gantt, S. E., Grupstra, C. G. B., Aichelman, H. E., Nagree, A., Swank, A., Da-Anoy, J. K., **Buston, P. M.** & Davies, S. W. (2026) Sex ratios and gamete production vary across cryptic coral lineages and thermal environments.
Coral Reefs in press.
83. Schlatter, E. L.,^D Shaw, A. K., Webb, C. T., & **Buston, P. M.** (2025) Evolution of interspecific variation in marine larval dispersal kernels: the role of larval navigation ability.
Oikos in press.
82. Bennett-Smith, M.^D, Villela, H., Justo, M., Peinemann V. N., Berumen, M., Carvalho, S., Garcias-Bonet, N., Versteeg, M.^D, Rueger, T., **Buston, P.**, Peixoto, R. (2025) Near complete local extinction of iconic anemonefish and their anemone hosts following a heat stress event.
NPJ Biodiversity in press.
81. Francis, R. K.^D, Castro, K.^U, Thompson, S.^U, Majoris, J. E.^D & **Buston, P. M.** (2025) Plasticity of dispersal-related larval traits in the clown anemonefish *Amphiprion percula*.
Ecology and Evolution in press.
80. Bennett-Smith, M. F., Froehlich, C. Y. M., Vizer, L. F. & **Buston, P. M.** (2025) Evidence of a novel symbiotic relationship between Christmas tree worms and coral reef blennies and gobies.
Symbiosis in press.
79. Rueger, T., Barbasch, T., Patel, M., Bogdanowicz, S. & **Buston, P. M.** (2025) No evidence for kin selection as an explanation for social group formation in clown anemonefish.
Behavioral Ecology in press.
78. Versteeg, M., MacDonald, C., Bennett-Smith, M., **Buston, P.** & Rueger, T. (2025) Individual clown anemonefish shrink to survive heat stress and social conflict.
Science Advances in press.
77. Branconi, R.^D, **Buston, P. M.** & Wong, M. Y. L. (2025) Not all social coral reef fishes form strict size-based dominance hierarchies: an investigation of intraspecific size ratios in *Dascyllus aruanus*.
Journal of Fish Biology online.
76. Rueger T.^P, Barbasch, T.^P, Versteeg, M.^D, Campbell, A.^M & **Buston, P. M.** (2025) Interspecific competition among anemonefishes: pink anemonefish engage in hostile takeovers of sea anemones occupied by clown anemonefish.
Coral Reefs 44: 339-344.
75. Robinson, A.^D, Novick, I.^D, Herrmann, J.^M, DeFelice, L.^U, Engel, A.^U, Famin, D.^U, Fetherston, C.^U, Frintu, B.^U, Meyersiek, J.^U, Mishi, M.^U, Nguyen, T. G. H.^U, **Buston, P. M.**, Sherratt, T. & Mullen, S. (2025) Is temporal synchrony necessary for effective Batesian mimicry?
Proceedings of the Royal Society of London, Series B 292: 20241737.
74. Francis, R. K.^D, Tostevin, G.^U, Barbasch, T. A.^D, Branconi, R.^D, Srinivasan, M., Jones, G. P. & **Buston, P. M.** (2024) Spatial autocorrelation in three habitat quality indicators sets the stage for the evolution of adaptive dispersal plasticity in a coral reef fish.
Coral Reefs 43: 69-78.

73. McCune, A. R., Bogdanowicz, S. M., **Buston, P. M.**, Jackson, J. R. & Harrison, R. G. (2023) Spawning behavior in a non-teleost actinopterygian: genetic evidence for both monogamy and polygamy in *Amia*.
Ichthyology & Herpetology 111: 522-542.
72. Gendron, M. E.^M & **Buston, P. M.** (2023) Review of housing and husbandry of anemonefishes for use in research.
Journal of Fish Biology 103: 924-938.
71. Hermanussen, M., Scheffler, C., Pulungan, A., Bandyopadhyay, A. R., Ghosh, J. R., Ozdemir, A., Ozer, B. K., Musalek, M., Lebedeva, L., Godina, E., Bogin, B., Tutkuvienė, J., Budryte, M., Gervickaite, S., Limony, Y., Kirchengast, S., **Buston, P.**, Groth, D., Rosler, A., Gasparatos, N., Erofeev, S., Novine, M., Navazo, B., Dahinten, S., Gomula, A., Nowak-Szczepanska, N., Koziel, S. (2023) Environment, social behavior, and growth — Proceedings of the 30th Aschauer Soiree held at Krobiewice, Poland, June 18th, 2022.
Human Biology and Public Health 1: 1-14.
70. Scavo, K.^D, Lesneski, K.^D, **Buston, P.**, Davies, S., D'Aloia, C. & Finnerty, J. (2023) Rampant asexual reproduction and limited dispersal in a mangrove population of the coral *Porites divaricata*.
Proceedings of the Royal Society of London, Series B 290: 20231070.
69. Pacaro, M.^M, Barbasch, T.^P, Rogers, M.^U, Chavez, J.^U, **Buston, P.** & Majoris, J.^P. (2023) Nocturnal parental care and the role of parents in hatching their eggs in the clownfish *Amphiprion percula*.
Ethology: 129: 479-488. (Cover photo).
68. Hu, Y.^P, Majoris, J.^D, **Buston, P. M.** & Webb, J. (2022) Ear development in selected coral reef fishes: clues for the role of hearing in larval orientation behavior.
Ichthyology & Herpetology 110: 759-775. (ASIH Best Young Investigator paper).
67. Schlatter, E.^D, Klawon, C.^U, Webb, C. & **Buston, P. M.** (2022) Heritability of dispersal-related larval traits in the clown anemonefish *Amphiprion percula*.
Ecology and Evolution 12: e9541.
66. Francis, R.^D, Catalano, K.^U, Majoris, J.^D, Rueger, T.^D, D'Aloia C., Bogdanowicz, S., & **Buston, P.** (2022) Characteristics of breeding habitat, genetic mating system, and determinants of male mating success in the sponge-dwelling goby *Elacatinus lori*.
Behavioral Ecology & Sociobiology 76: 1-13.
65. Majoris, J.^D, Francisco, F.^U, Burns, C.^U, Brandl, S., Warkentin, K. & **Buston, P. M.** (2022) Paternal care regulates the timing, synchrony, and success of hatching in a coral reef fish.
Proceedings of the Royal Society of London, Series B 289: 20221466.
64. Rueger, T.^P, Bhardwaj, A.^M, Turner, E.^U, Barbasch, T.^P, Trumble, I., Dent, B. & **Buston, P.** (2022) Vertebrate growth plasticity in response to variation in a mutualistic interaction.
Scientific Reports 12: 11238.
63. **Buston, P. M.** & Clutton-Brock, T. (2022). Strategic growth in social vertebrates.
Trends in Ecology and Evolution 37: 694-705.
62. D'Aloia, C. C., Bogdanowicz, S. M., Andres, J. A. & **Buston, P. M.** (2022) Population assignment tests uncover rare long-distance marine larval dispersal events.
Ecology 103: e03559.
61. Barbasch, T.^D, Branconi, R.^D, Francis, R.^D, Pacaro, M.^U, Srinivasan, M., Jones, G. & **Buston, P.** (2021) Negotiations over parental care: a test of alternative hypotheses in the clown anemonefish.
Behavioral Ecology 32: 1256-1265.

60. Majoris, J. E. ^D, Foretich, M. ^D, Hu, Y. ^P, Nickles, K. ^U, Di Persia C. L. ^U, Schlatter, E. ^M, Chaput, R. ^D, Webb, J., Paris, C. & **Buston, P. M.** (2021) An integrative investigation of sensory organ development and orientation behavior throughout the larval phase of a coral reef fish. *Scientific Reports* 11: 1-13.
59. Rueger, T. ^P, Branconi, R. ^D, Heatwole, S. ^D, Froehlich, C. ^D, Wong, M.Y.L. & **Buston, P. M.** (2021) The next frontier in understanding the evolution of coral reef fish societies. *Frontiers in Marine Science* 8: 665780.
58. Rueger, T. ^P, **Buston, P. M.**, Bogdanowicz, S., & Wong, M. Y. L. (2021) Genetic relatedness in social groups of the emerald coral goby *Paragobiodon xanthosomus* creates potential for weak kin selection. *Molecular Ecology* 30: 1311-1321.
57. Nickles, K. R. ^M, Hu, Y. ^P, Majoris, J. E. ^D, **Buston, P. M.** & Webb, J. F. (2020) Organization and ontogeny of a complex lateral line system in a goby (*Elacatinus lori*), with a consideration of function and ecology. *Copeia* 108: 863-885. (ASIH Best Student paper).
56. Barbasch, T. ^D, Rüger, T. ^P, Srinivasan, M., Wong, M. Y. L., Jones, G. & **Buston, P. M.** (2020) Substantial plasticity of reproduction and parental care in response to local resource variability in a wild population of clownfish. *Oikos* 129: 1844-1855.
55. Branconi, R. ^D, Barbasch, T. ^D, Francis, R. ^D, Srinivasan, M., Jones, G. & **Buston, P.** (2020) Ecological and social constraints combine to promote the evolution of non-breeding strategies in clownfish. *Nature, Communications Biology* 3: 649.
54. Desrochers, L. ^M, Branconi, R. ^D, Schlatter, E. ^D, Dent, B. & **Buston, P.** (2020) Sensory cues underlying competitive growth in the clown anemonefish *Amphiprion percula*. *Behavioral Processes* 181: 104276.
53. Barbasch, T. ^D, Alonzo, S. & **Buston, P. M.** (2020) Power and punishment influence negotiations over parental care. *Behavioral Ecology* 31: 911-921.
52. Rueger, T. ^P, Harrison, H. B., **Buston, P. M.**, Gardiner N. M., Berumen, M. L. & Jones, G. P. (2020) Natal philopatry increases relatedness within groups of coral reef cardinalfish. *Proceedings of Royal Society of London, Series B* 287: 20201133.
51. D'Aloia, C. C., Andres, J. A., Bogdanowicz, S. M., McCune, A. R., Harrison, R. G. & **Buston, P.** (2020) Unraveling hierarchical genetic structure in a marine metapopulation: a comparison of three high-throughput genotyping approaches. *Molecular Ecology* 29: 2189-2203.
50. Majoris, J. ^D, Catalano, K. ^U, Scolaro, D. ^U, Atema, J. & **Buston, P.** (2019) Ontogeny of larval swimming abilities in three species of coral reef fishes and a hypothesis for their impact on the spatial scale of dispersal. *Marine Biology* 166: 159.
49. Chaput, R. ^D, Majoris, J. ^P, **Buston, P. M.** & Paris, C. (2019) Hydrodynamic and biological constraints on group cohesion of plankton. *Journal of Theoretical Biology* 482: 109987.
48. Lesneski, K. C. ^D, D'Aloia, C. C., Fortin, M-J. & **Buston, P. M.** (2019) Disentangling spatial distributions of a sponge-dwelling fish and its host sponge. *Marine Biology* 166: 66.
47. Branconi, R. ^D, Wong, M. & **Buston, P.** (2019) Comparison of efficiency of direct observations by SCUBA diver and indirect observations via video camera for measuring reef fish behavior.

- Journal of Fish Biology* 94: 489-497.
46. Branconi, R. ^D, Garner, J. ^M, **Buston, P. M.** & Wong, M. Y. L. (2019) A new non-invasive technique for temporarily tagging coral reef fishes. *Copeia* 107: 85-91. (ASIH Best Student paper).
45. Reed, C. ^U, Branconi, R. ^D, Majoris, J. ^P, Johnson, C. & **Buston, P.** (2019) Competitive growth in a social fish. *Royal Society, Biology Letters* 15: 20180737.
44. Shaw, A., D'Aloia, C. C. & **Buston, P. M.** (2019) The evolution of marine larval dispersal kernels in spatially structured habitats: analytic models, individual-based simulations, and comparisons with empirical estimates. *American Naturalist* 193: 424-435.
43. Hu, Y. ^P, Majoris, J. E. ^D, **Buston, P. M.** & Webb, J. F. (2019) Potential roles of smell and taste in the orientation behavior of coral reef fish larvae: insights from morphology. *Journal of Fish Biology* 95: 311-323.
42. D'Aloia, C. C., Xuereb, A., Fortin, M-J., Bogdanowicz, S, M. & **Buston, P. M.** (2018) Limited dispersal explains the spatial distribution of siblings in a reef fish population. *Marine Ecology Progress Series* 607: 143-154.
41. Rueger, T. ^P, Barbasch, T. ^D, Wong, M. Y. L., Srinivasan, M., Jones, G. P. & **Buston, P. M.** (2018) Reproductive control via the threat of eviction in the clown anemonefish. *Proceedings of the Royal Society of London, Series B* 285: 20181295.
40. Maytin, A. ^U, Davies, S., Smith, G. ^U, Mullen, S., & **Buston, P. M.** (2018) De novo transcriptome assembly of the clownfish *Amphiprion percula*: a new resource to study the evolution of fish color. *Frontiers in Marine Science* 5: 284.
39. Seymour, J. ^M, Barbasch, T. ^D & **Buston, P. M.** (2018) Lunar cycles of reproduction in the clown anemonefish *Amphiprion percula*: individual level strategies and population level patterns. *Marine Ecology Progress Series* 594: 193-201.
38. Barbasch, T. A. ^D & **Buston, P. M.** (2018) Plasticity and personality of parental care in the clown anemonefish. *Animal Behavior* 136: 65-73.
37. Majoris, J. ^D, D'Aloia, C. ^D, Francis, R. ^U & **Buston, P.** (2018) Differential persistence favors habitat preferences that determine the distribution of a reef fish. *Behavioral Ecology* 29: 429-439.
36. Majoris, J. E. ^D, Francisco, F. A. ^U, Atema, J. & **Buston, P. M.** (2018) Reproduction, early development, and larval rearing strategies for two sponge-dwelling neon gobies *Elacatinus lori* and *Elacatinus colini*. *Aquaculture* 483: 286-295.
35. D'Aloia, C. C. ^D, Bogdanowicz, S. M., Harrison, R. G. & **Buston, P. M.** (2017) Cryptic genetic diversity and spatial patterns of admixture within Belizean marine reserves. *Conservation Genetics* 18: 211-223.
34. Schmiede, P. ^U, D'Aloia, C. C. ^D & **Buston, P. M.** (2017) Anemonefish personalities influence the strength of mutualistic interactions with host sea anemones. *Marine Biology* 164: 24-
33. Lindo, D. ^P, Curcic, M., Paris C. & **Buston, P. M.** (2016) Description of surface transport in the region of the Belizean Barrier Reef based on observations and alternative high-resolution models *Ocean Modeling* 106: 74-89.

32. Mattison, S. M., Beheim, B., Chak, B. ^U & **Buston, P. M.** (2016). Offspring sex preferences among matrilineal and patrilineal Mosuo in Southwest China revealed by differences in parity progression. *Royal Society, Open Science* 3: 160526.
31. Wong, M. Y. L. ^P, Uppaluri, C. ^U, Medina, A. ^U, Seymour, J. ^M. & **Buston, P. M.** (2016) The four elements of within group conflict in animal societies: an experimental test using the clownfish. *Behavioral Ecology and Sociobiology* 70: 1467-1475.
30. D'Aloia, C. C. ^D, Bogdanowicz, S. M., Francis, R. K. ^U, Majoris, J. ^D, Harrison, R. G. & **Buston, P.** (2015) Patterns, causes and consequences of marine larval dispersal. *Proceedings of the National Academy of Sciences, USA* 112: 13940-13945.
29. Rickborn, A. J. ^M & **Buston, P.** (2015) Life history transitions of the coral reef fish *Elacatinus lori*. *Journal of Fish Biology* 86: 637-650.
28. D'Aloia, C. C. ^D, Bogdanowicz, S. M., Harrison, R. G. & **Buston, P. M.** (2014) Seascape continuity plays an important role in determining spatial genetic structure in a coral reef fish. *Molecular Ecology* 23: 2902-2913.
27. Wong, M. Y. L. ^P & **Buston P. M.** (2013) Social systems of habitat specialist reef fishes: tests of key concepts in evolutionary ecology. *BioScience* 63: 453-463.
26. Wong, M. Y. L. ^P, Medina, A. ^U, Uppaluri, C. ^U, Arnold, S. ^U, Seymour, J. ^M, & **Buston, P. M.** (2013) Consistent behavioral traits and behavioral syndromes in pairs of the false clown anemonefish. *Journal of Fish Biology* 83: 207-213.
25. D'Aloia, C. C. ^D, Bogdanowicz, S. M., Majoris, J. E. ^D, Harrison, R. G. & **Buston, P. M.** (2013) Self-recruitment in a Caribbean reef fish: a new method for approximating dispersal kernels. *Molecular Ecology* 22: 2563-2572.
24. Wong, M. Y. L. ^P, Fauvelot, C., Planes, S. & **Buston, P. M.** (2012) Discrete and continuous reproductive tactics in a hermaphroditic society. *Animal Behaviour* 84: 897-906.
23. **Buston, P. M.**, Jones, G. P., Planes, S. & Thorrold, S. (2012) Probability of successful larval dispersal declines fivefold over one kilometer in a coral reef fish. *Proceedings of the Royal Society of London, Series B* 279: 1883-1888 (Cover Photo).
22. D'Aloia, C. C. ^D, Majoris, J. E. ^D & **Buston, P. M.** (2011) Predictors of the distribution and abundance of a tube sponge and its resident goby. *Coral Reefs* 30: 777-786.
21. **Buston, P. M.** & Elith, J. (2011) Determinants of reproductive success in dominant pairs of clownfish: a boosted regression tree analysis. *Journal of Animal Ecology* 80: 528-538.
20. **Buston, P. M.**, Fauvelot, C., Wong, M. Y. L. & Planes, S. (2009) Genetic relatedness in groups of humbug damselfish *Dascyllus aruanus*: small, similarly-sized individuals may be close kin. *Molecular Ecology* 18: 4707-4715. (Cover photo).
19. **Buston, P. M.** & Zink, A. G. (2009) Reproductive skew and the evolution of conflict resolution: a synthesis of transactional and tug-of-war models. *Behavioral Ecology* 20: 672-684. (Cover photo).
18. Fauvelot, C., Smith-Kuene, C., Jerry D. R., **Buston, P. M.** & Planes, S. (2009) Isolation and characterization of 16 microsatellite loci for the humbug damselfish *Dascyllus aruanus*. *Molecular Ecology Resources* 9: 651-653.
17. Wong, M. Y. L., Munday, P. L., **Buston, P. M.** & Jones, G. P. (2008) Fasting or feasting in a fish social hierarchy.

- Current Biology* 18: R372-R373.
16. Wong, M. Y. L., Munday, P. L., **Buston, P. M.** & Jones, G. P. (2008) Monogamy when there is the potential for polygyny: tests of multiple hypotheses in a group-living fish. *Behavioral Ecology* 19: 353-361.
 15. **Buston, P. M.**, Reeve, H. K., Cant, M. A., Vehrencamp, S. L. & Emlen, S. T. (2007) Reproductive skew and the evolution of group dissolution tactics: a synthesis of concession and restraint models. *Animal Behaviour* 74: 1643-1654.
 14. **Buston, P. M.** & Balshine, S. (2007) Cooperating in the face of uncertainty: a consistent framework for understanding the evolution of cooperation. *Behavioural Processes* 76: 152-159. (Cover photo).
 13. **Buston, P. M.**, Bogdanowicz, S. M., Wong, A. & Harrison, R. G. (2007) Are clownfish groups composed of relatives? Analysis of microsatellite DNA variation in *Amphiprion percula*. *Molecular ecology* 16: 3671-3678. (Cover photo).
 12. **Buston, P. M.** & García, M. B. (2007) An extraordinary life span estimate for the clown anemonefish. *Journal of Fish Biology* 70: 1710-1719.
 11. Wong, M. Y. L., **Buston, P. M.**, Munday, P. L. & Jones, G. P. (2007) The threat of punishment enforces peaceful cooperation and stabilizes queues in a coral reef fish. *Proceedings of the Royal Society of London, Series B* 274: 1093-1099.
 10. **Buston, P. M.** & Cant M. A. (2006) A new perspective on size hierarchies in nature: patterns causes and consequences. *Oecologia* 149: 362-372.
 9. Munday, P. L., **Buston, P. M.** & Warner, R. R. (2006) Diversity and flexibility of sex change strategies in animals. *Trends in Ecology and Evolution* 21: 89-95.
 8. **Buston, P. M.** (2004) Does the presence of non-breeders enhance the fitness of breeders? An experimental analysis in the clown anemonefish *Amphiprion percula*. *Behavioural Ecology and Sociobiology* 57: 23-31.
 7. **Buston, P. M.** (2004) Territory inheritance in the clown anemonefish. *Proceedings of the Royal Society of London, Series B* 271: S252-S254.
 6. **Buston, P. M.**, Munday, P. L. & Warner, R. R. (2004) Sex change and body size in animals. *Nature* 428: <http://www.nature.com/nature/journal/v428/n6983/full/nature02512.html>
 5. **Buston, P. M.** (2003) Mortality is associated with social rank in the clown anemonefish. *Marine Biology* 143: 811-815.
 4. **Buston, P. M.** & Emlen, S. T. (2003) Cognitive processes underlying human mate choice: the relationship between self-perception and mate preference in Western society. *Proceedings of the National Academy of Sciences of the USA* 100: 8805-8810.
 3. **Buston, P. M.** (2003) Forcible eviction and prevention of recruitment in the clown anemonefish. *Behavioral Ecology* 14: 576-582.
 2. **Buston, P. M.** (2003) Size and growth modification in clownfish. *Nature* 424: 145-146.
 1. Jenkins, A. P., **Buston, P. M.** & G. R. Allen. (2000) Two new species of freshwater gudgeons (Eleotridae: Mogurnda) from Lake Kutubu, Papua New Guinea. *Ichthyological Exploration of Freshwaters* 11: 47-54.

Publications in print – Books, book chapters or book contributions (total = 5)

5. **Buston, P. M.**, Branconi, R. & Rueger, T. (2022). Social evolution in anemonefishes: formation, maintenance, and transformation of social groups. In: *Evolution, Development, and Ecology of Anemonefishes: Model Organisms for Marine Science* (Laudet, V. & Ravasi, T. eds).
4. Barbasch, T., DeAngelis, R., Rhodes, J. S. & **Buston, P. M.** (2022). Parental care: patterns, proximate and ultimate causes, consequences. In: *Evolution, Development, and Ecology of Anemonefishes: Model Organisms for Marine Science* (Laudet, V. & Ravasi, T. eds).
3. **Buston, P. M.** (2010) Parentesco en peces de arrecifes coralinos. In: *Aplicaciones de la genética al estudio y conservación de la vida silvestre* (Godoy, J. A. & Martínez-Cruz, B. eds). Consejería de Medio Ambiente, Junta de Andalucía.
2. Balshine, S. & **Buston P. M.** (2008) Cooperation in fishes. In: *Fish Behavior* (C. Magnhagen, V.A. Braithwaite, E. Forsgren & B.G. Kapoor, eds), pp 437-484. Science Publishers, NH.
1. **Buston, P. M.** (2002) Group structure of the clown anemonefish *Amphiprion percula* (Ph.D. dissertation). Ithaca, New York, Cornell University.

Publications in print – Non-peer-reviewed articles, editorials, reviews (total = 4)

4. **Buston P. M.** & Wong M. Y. L. ^P (2016) Animales que renuncian la reproducción. *Investigación y Ciencia* Febrero 2016: 76-84.
3. Peck, M. A. & **Buston, P. M.** (2015) Bigger mothers = better chances: the first test of a central hypothesis in marine ecology. *Marine Biology* 162: 1-2.
2. **Buston P. M.** & Wong M. Y. L. ^P (2014) Why some animals forgo reproduction in complex societies. *American Scientist* 102: 290-297.
1. **Buston P. M.** & D'Aloia, C. C. ^D (2013) Marine Ecology: Reaping the benefits of local dispersal. *Current Biology* 23: R351-R353.

Publications in review AY 2025/2026

- Sankey, D., Patel, M., **Buston, P. M.**, Cant, M., Johnstone, R. & Rueger, T. (202X) Spend today or build for tomorrow? Kinship dynamics and the evolution of alternative helping strategies in cooperative breeders. *Proceedings of the Royal Society of London, Series B*: in review as of November 18th, 2025.
- Bennett-Smith, M., McNamee, E., Maish, S., Lis, T., Murchison, M., Cinelli, A., Bhaumik, T., Froehlich C., DeLoach, N., DeLoach, A., Martinez, N., **Buston, P.**, Francis, R. & Scavo Lord, K. (202X). Novel associations between reef fishes and serpulid polychaetes in the Caribbean Sea. *Symbiosis*: in review as of December 22nd, 2025
- Branconi, R. ^D, Wong, M. Y. L., Stouffer, D., Rueger, T. & **Buston, P. M.** (202X) Experimental manipulation of ecological constraints influences cooperation and conflict in the humbug damselfish. *Proceedings of the Royal Society of London*: in review as of December 15th, 2025.

Grants and Fellowships Awarded to Peter Buston – US\$ equivalents at time of acquisition

2024 - 2027	Buston, P.* , Davies, S., Muthukrishnan, R. & Majoris, J.*. COLLABORATIVE RESEARCH: An integrative investigation of dispersal plasticity using a coral reef fish. (* Denotes lead role; \$1,599,809 allocated to work at BU, remainder to collaborator) <i>NSF – OCE – Biological Oceanography</i>	\$2,182,777
	Total direct costs: \$1,377,195; Total indirect costs: \$262,414	
2024 - 2029	Buston, P.* . Why do breeders tolerate non-breeders in animal societies? (* Denotes lead role; All funds allocated to BU). <i>NSF – IOS – Behavioral Systems</i>	\$998,316
	Total direct costs: \$790,960; Total indirect costs: \$204,408	
2023 - 2026	Snaddon, J.*, Martinez, N.*, Rogers, A., Garcia, E., D'Aloia, C., Bogdanowicz, S., & Buston, P. Population structure assessment of fished marine species within Belize. (* Denotes lead role; All funds allocated to the University of Belize) <i>Belizean Fund For A Sustainable Future</i>	\$220,035
2021 - 2022	Bradham, C.*, Buston, P.* , and other member of the Biology Antiracism Committee. Emerging Scholars in Integrative Biology (* All funds allocated to Department of Biology; No funds allocated to individual labs) <i>Boston University – Emerging Scholars Program</i>	\$13,340
2020 - 2024	Mullen, S.*, Kristiansen, E. & Buston, P. How do density dependent dynamics influence the efficacy of mimetic signaling? (* Denotes lead role; \$46,246 allocated to work in Buston Lab) <i>NSF – DEB – Evolutionary Processes</i>	\$844,195
2017 - 2019	Barbasch, T. A. & Buston, P. M. DISSERTATION RESEARCH: Negotiations over offspring care: a test of alternative hypotheses using the clown anemonefish. <i>NSF – IOS – Behavioral Systems</i>	\$16,374
2015 - 2017	Majoris, J. E. & Buston, P. M. DISSERTATION RESEARCH: Testing alternative hypotheses for goal orientation by reef fish larvae throughout development. <i>NSF – IOS – Behavioral Systems</i>	\$16,898
2015 - 2019	Buston, P. M.* , Atema, J., Paris, C. & Webb, J. COLLABORATIVE RESEARCH: The role of larval orientation behavior in determining population connectivity. (* Denotes lead role; \$612,355 allocated to work at BU, remainder to collaborators) <i>NSF, Ocean Sciences, Biological Oceanography</i>	\$1,231,459
2013 - 2019	Buston, P. M.* , Harrison, R. G., Paris, C., Warner, R. & Webb, C. An integrative investigation of population connectivity using a coral reef fish. (* Denotes lead role; \$562,218 allocated to work at BU, remainder to subawards) <i>NSF, Ocean Sciences, Biological Oceanography</i>	\$1,439,000
2006 - 2011	Buston, P. M. A test of alternate models of reproductive skew in the humbug damselfish <i>Ministerio de Educación y Ciencia, España</i>	\$200,000
2002 - 2005	Buston, P. M. A synthesis of reproductive skew theory and sex allocation theory <i>National Science Foundation and the University of California</i>	\$150,000
1994 - 2002	Buston, P. M. An investigation of cooperative breeding in the clown anemonefish <i>National Science Foundation, Dissertation Improvement Grant (1)</i>	\$10,000
	<i>Christensen Fund, Christensen Research Fellowship (3)</i>	\$19,230
	<i>Cornell University, Departmental Summer Research Support (7)</i>	\$11,500
	<i>Cornell University, Research Travel Grant (2)</i>	\$3,000
	<i>Andrew W. Mellon, Student Research Grant (2)</i>	\$2,100
	<i>Cornell Chapter of Sigma Xi, Grants in Aid of Research (6)</i>	\$2,100

	<i>Cornell University, Graduate Conference Travel Grant (3)</i>	\$1,125
	<i>AMNH, Lerner Gray Fund for Marine Research (1)</i>	\$1,050
	<i>Percy Sladen Memorial Fund, Small Grant (1)</i>	\$750
	<i>Sigma Xi, Grants-in-Aid of Research (1)</i>	\$500
	<i>International Women's Fishing Association (1)</i>	\$500
1997	Jenkins A. & Buston, P. Ecology of the fishes of Lake Kutubu, Papua New Guinea. <i>World Wide Fund for Nature, Research Grant.</i>	\$15,000
1992	Anderson, J. et al. Ecology of black-and-rufous elephant-shrews, Tanzania. <i>Grants from multiple sources, as part of Njule 1992 expedition.</i>	\$16,000
1991	Hooker S. et al. Ecology of nocturnal arboreal ship rats, New Zealand. <i>Grants from multiple sources, as part of Kokako 1991 expedition.</i>	\$15,000

Grant Proposals in review / revision

Summer 2026	Majoris, J.*, Brandl, S.*, Pinsky, M.* Davies, S*. & Buston, P.* COLLABORATIVE RESEARCH: Identifying the Genomic Basis of Variation in Complex Larval Dispersal Traits in an Emerging Marine Model Organism. (* Denotes lead role; \$XXX,XXX allocated to work at BU, remainder to collaborators). <i>NSF – IOS – PSS – Integrative Ecological Physiology</i>	\$X,XXX,XXX
Summer 2026	Finnerty, J.*, Scavo-Lord, K. & Buston, P. Diversity across habitats — a critical consideration for coral conservation. (* Denotes lead role; \$XXX,XXX allocated to work in Buston Lab) <i>NSF – BioDiversity on a Changing Planet</i>	\$X,XXX,XXX

Grants and Fellowships Awarded to Graduate Students in my Course at Boston University

BI671 Graduate Survey of Ecology, Behavior, and Evolution is a course that I develop for our incoming cohort of graduate students, during which I guide them through the process of writing the NSF GRFP.

2020	Zoey Werbin, NSF Graduate Research Fellowship	Awarded
2020	Caroline Fleming, NSF Graduate Research Fellowship	Awarded
2019	Melissa Zarate, NSF Graduate Research Fellowship	Awarded
2019	Caroline Fleming, NSF Graduate Research Fellowship	Honorable Mention
2016	Karina Scavo, NSF Graduate Research Fellowship	Awarded
2016	Margaret O'Connor, NSF Graduate Research Fellowship	Honorable Mention
2016	Julie Jung, NSF Graduate Research Fellowship	Honorable Mention
2015	Mustafa Saifuddin, NSF Graduate Research Fellowship	Awarded
2015	Paula Ortet, NSF Graduate Research Fellowship	Awarded
2014	Andrew Hoadley, NSF Graduate Research Fellowship	Awarded
2014	Amanda Gallinat, NSF Graduate Research Fellowship	Awarded
2013	Kimberly Cohen, NSF Graduate Research Fellowship	Awarded
2013	Rebecca Sanders-DeMott, NSF Graduate Research Fellowship	Honorable Mention

Teaching at Boston University

Assistant/Associate Professor (Sole Instructor)

2024, 2023, 2022	BI511 – The Ecology of Coral Reef Fishes
2022, 2020, 2018, 2015, 2013, 2011, 2010	BI519 – Theoretical Evolutionary Ecology
2019	BI509 – Metapopulation Ecology
2019, 2013, 2012	BI579 – Progress in Ecology, Evolution and Behavior
2018, 2017, 2015, 2014, 2012	BI671 – Survey of Ecology, Evolution and Behavior
2016, 2015, 2014, 2013, 2012, 2011	BI260 – Marine Biology

Guest Lecturer

2024, 2018, 2016, 2015	BI303 – Evolutionary Ecology (Stewart, Rotjan, Helmberger).
2023, 2012	BI614 – Phenotypic Plasticity (Warkentin).
2023, 2022, 2020, 2015, 2014, 2013, 2012, 2010	ES144 – Oceanography (Fulweiler).
2018, 2014, 2012, 2011	BI225 – Behavioral Biology (Traniello).
2018, 2017, 2010	BI260 – Marine Biology (Atema, Rotjan).
2014, 2013	ES423 – Marine Biogeochemistry (Fulweiler).
2012	BI679 – Professional Development (Spilos).
2010	BI532 – Ichthyology (Lobel).
2001	Biology of Fishes, at Cornell University (McCune).

Teaching prior to Boston University

Instructor

2001	Evolutionary Biology, Writing in the Majors, at Cornell University.
1999	Animal Behavior, Writing in the Majors, at Cornell University.

Head Teaching Assistant

2002	Macroevolution, at Cornell University.
2001	Writing in the Arts and Sciences, at Cornell University.
1999	Modeling Behavioral Evolution, at Cornell University.
1999, 1998	Animal Behavior, at Cornell University.

Teaching Assistant

2002, 2001, 1998, 1996	Internship in Education, at Cornell University.
1996, 1995, 1994	Introductory Biology, at Cornell University.
1998, 1996	Animal Behavior, at Cornell University.
1998	Evolutionary Biology, at Cornell University.

SCUBA Instructor

2001, 1999, 1998, 1996	SCUBA: PADI Open Water, Advanced Open Water, and Rescue Diver.
2010, 2013	SCUBA: NAUI Advanced Diver & Dive Rescue.

Broader Impacts – Dissemination of Results

* Denotes Presenter

Conference Presentations

- 2026 Becker, P.*,
International Society for Behavioral Ecology, Turin, Italy
- 2026 Buston, P.*,
International Society for Behavioral Ecology, Turin, Italy
- 2026 Francisco, F.*,
International Society for Behavioral Ecology, Turin, Italy
- 2026 Gaffney, K.*,
International Society for Behavioral Ecology, Turin, Italy
- 2026 Vizer, L.*,
International Society for Behavioral Ecology, Turin, Italy
- 2026 Bennett-Smith, M.*,
International Coral Reef Symposium, Auckland, New Zealand
- 2026 Froelich, C.*,
International Coral Reef Symposium, Auckland, New Zealand
- 2026 Bennett-Smith, M.*,
Society for Integrative and Comparative Biology, Portland, Oregon
- 2024 Sankey, D.*, Patel, M., **Buston, P.**, Johnstone, R., Cant, M. & Rueger, T. The subordinate dilemma: spend today or save for tomorrow?
International Society for Behavioral Ecology, Melbourne, Australia.
- 2024 Schlatter, E.^{D*}, D'Aloia, C. C., Andrés, J., Bogdanowicz, S., Webb, C. T. & **Buston, P.** Connecting dispersal and spatial genetic structure in the neon goby *Elacatinus lori*.
Evolution 2024, Montreal, Canada.
- 2024 Francis, R. K.^{D*}, Castro, K.^U, Thompson, S.^U, Trumble, I. Majoris, J.^D & **Buston, P.** Plasticity larval dispersal-related traits in the orange anemonefish.
Evolution 2024, Montreal, Canada.
- 2024 Sankey, D.*, Patel, M., **Buston, P.**, Cant, M., Johnstone, R. & Rueger, T. Stable investment in durable public goods.
Association for the Study of Animal Behavior, Exeter, UK.
- 2024 Karadimitriou, N.*, Vizer, L., Thompson, K. & **Buston, P. M.** Processes governing the joining and leaving of groups in the clown anemonefish *Amphiprion percula*.
Society for Integrative and Comparative Biology, Seattle, Washington
- 2024 Vizer, L.*, Alvarado, D., Davies, S. & **Buston, P.** Phenotypic plasticity associated with the adoption of social positions in clown anemonefish.
Society for Integrative and Comparative Biology, Seattle, Washington
- 2023 Schlatter, E.* , Shaw, A., Webb, C. & **Buston, P. M.** Larval navigation leads to interspecific variation in marine dispersal kernels.
Evolution 2023, Albuquerque, New Mexico
- 2023 Rueger, T.* , Gaffney, K. & **Buston, P. M.** Why dominant breeders tolerate subordinate non-breeders in anemonefish societies.
Behaviour 2023, Bielfeld, Germany.

- 2023 Majoris, J.^{D*}, Francisco, F.^U, Burns, C.^U, Brandl, S., Warkentin, K. & **Buston, P. M.** Paternal care regulates the timing, synchrony, and success of hatching in a coral reef fish. *Society for Integrative and Comparative Biology*.
- 2022 Francis, R. K.^{D*}, Castro, K.^U, Thompson, S.^U, Majoris, J.^D, Trumble, I. & **Buston, P.** Plasticity larval dispersal-related traits in response to changes in parental environment in a coral reef fish. *45th Larval Fish Conference, Scripps Institution of Oceanography, UC San Diego*.
- 2022 Branconi, R.^{D*}, Rueger, T.^P, Stouffer, D., Wong, MYL. & **Buston, P.** Ecological constraints influence cooperation and conflict in the humbug damselfish *Dascyllus aruanus*. *International Society for Behavioral Ecology, Stockholm, Sweden*.
- 2022 Branconi, R.^D, Barbasch, T.^D, Francis, R.^D, Srinivasan, M., Jones, G. & **Buston, P***. Ecological and social constraints combine to promote the evolution of non-breeding strategies in clownfish. *International Society for Behavioral Ecology, Stockholm, Sweden*.
- 2022 **Buston, P***. & Clutton-Brock, T. Strategic growth in social vertebrates. *Human Growth Conference (Virtual), Wroclaw, Poland*.
- 2022 Francis, R. K.^{D*}, Castro, K.^U, & **Buston, P.** Plasticity of marine larval fish dispersal in response to parental environment. *Society for Integrative and Comparative Biology (Virtual)*.
- 2022 Schlatter, E.^{D*}, Klawon, C.^U, Majoris, J., Webb, C. & **Buston, P.** Heritability of larval size and swimming speed in the clown anemonefish *Amphiprion percula* *Society for Integrative and Comparative Biology (Virtual)*.
- 2021 D'Aloia, C. *, Bogdanowicz, S., Andrés, J. & **Buston, P.** An empirical framework for predicting and detecting long distance dispersal events. *Ecological Society of America, Annual Meeting (Virtual), USA*.
- 2021 D'Aloia, C. *, Bogdanowicz, S., Andrés, J. & **Buston, P.** An empirical framework for predicting and detecting long distance dispersal events. *International Coral Reef Symposium (Virtual), Bremen, Germany*.
- 2021 D'Aloia, C., Xuereb, A., Fortin, MJ., Bogdanowicz, S. & **Buston P ***. Limited dispersal explains the spatial distribution of siblings in a reef fish population *International Coral Reef Symposium (Virtual), Bremen, Germany*.
- 2021 Schlatter, E.^{D*}, Klawon, C.^U, Majoris, J., Webb, C. & **Buston, P.** Heritability of larval size and swimming speed in the clown anemonefish *Amphiprion percula* *International Coral Reef Symposium (Virtual), Bremen, Germany*.
- 2021 Barbasch, T.^{P*}, Branconi, R.^D, Francis, R.^D, Pacaro, M., Srinivasan, M., Jones, G. & **Buston, P.** Negotiations over parental care: a test of alternative hypotheses in the clown anemonefish. *Society for Integrative and Comparative Biology, Virtual Conference*.
- 2021 Francis, R.^{D*}, Catalano, K., Majoris, J.,^D D'Aloia C., Bogdanowicz, S., Rueger, T. & **Buston, P.** Genetic mating system and determinants of mating success in the neon goby *Elacatinus lori* *Society for Integrative and Comparative Biology, Virtual Conference, USA*.
- 2021 Rueger, T.^{P*}, Bhardwaj, A.^M, Turner, E.^U & **Buston, P.** Vertebrate growth plasticity in response to variation in a mutualistic interaction. *Society for Integrative and Comparative Biology, Virtual Conference, USA*.
- 2020 Barbasch, T.^{D*}, Branconi, R.^D, Francis, R.^D, Pacaro, M., Srinivasan, M., Jones, G. & **Buston, P.** Negotiations over parental care: a test of alternative hypotheses in the clown anemonefish. *Marine Evolution (EvolMar), First Italian Congress, Virtual Conference, Italy*.
- 2020 Branconi, R.^{D*}, Barbasch, T.^D, Francis, R.^D, Srinivasan, M., Jones, G. & **Buston, P.** Ecological and social constraints combine to promote the evolution of non-breeding strategies in clownfish.

- Marine Evolution (EvolMar), First Italian Congress, Virtual Conference, Italy.*
- 2020 Branconi, R.^D, Reed, C.^U, Desrochers, L.^M & **Buston, P.***. Competitive growth in a social fish. *Marine Evolution (EvolMar), First Italian Congress, Virtual Conference, Italy.*
- 2020 Pacaro, M.^{U*}, Rogers, M.^U, Chavez Andonie, J.^U, Barbasch, T.^D, Majoris, J. & **Buston, P. M.** Nocturnal parental care in the clown anemonefish *Amphiprion percula*. *Australian Society for the Study of Animal Behaviour, Virtual Conference, Australia.*
- 2020 Rueger, T.^{P*}, Barbasch, T.^D, Wong, M. Y. L., Srinivasan, M., Jones, G. P. & **Buston, P. M.** Reproductive control via the threat of eviction in the clown anemonefish. *Australian Society for the Study of Animal Behaviour, Virtual Conference, Australia.*
- 2020 Barbasch, T.^{D*}, Alonzo, S. & **Buston, P. M.** Power and punishment influence negotiations over parental care. *Animal Behavior Society, Tennessee, USA.*
- 2020 Branconi, R.^{D*}, Barbasch, T.^D, Francis, R.^D, Srinivasan, M., Jones, G. & **Buston, P.** Ecological and social constraints combine to promote the evolution of non-breeding strategies in clownfish. *Animal Behavior Society, Tennessee, USA.*
- 2020 Pacaro, M.^{U*}, Rogers, M.^U, Chavez Andonie, J.^U, Barbasch, T.^D, Majoris, J. & **Buston, P. M.** Nocturnal parental care in the clown anemonefish *Amphiprion percula*. *Animal Behavior Society, Tennessee, USA.*
- 2020 Rueger, T.^{P*}, Barbasch, T.^D, Wong, M. Y. L., Srinivasan, M., Jones, G. P. & **Buston, P. M.** Reproductive control via the threat of eviction in the clown anemonefish. *Animal Behavior Society, Tennessee, USA.*
- 2020 D'Aloia, C., Xuereb, A., Fortin, M.J., Bogdanowicz, S. & **Buston P.***. Limited dispersal explains the spatial distribution of siblings in a reef fish population *Larval Fish Conference 44, Mystic Connecticut*
- 2020 Rueger, T.*, Harrison, H. B., **Buston, P. M.**, Gardiner N. M., Berumen, M. L. & Jones, G. Natal philopatry increases relatedness within groups of coral reef cardinalfish. *Larval Fish Conference 44, Mystic Connecticut*
- 2020 D'Aloia, C.*, Bogdanowicz, S., Andrés, J. & **Buston, P.** Quantifying marine larval dispersal across spatial scales. *International Association for Landscape Ecology Word Congress, Toronto, Canada.*
- 2020 Majoris, J.^{P*}, Foretich, M., Hu, Y., Nickles, K., DiPersia, C., Chaput, R., Schlatter, E., Webb, J., Paris, C. & **Buston, P.** Larval orientation behavior begins shortly after hatching and may contribute to restricted dispersal in a coral reef fish. *Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas, USA.*
- 2019 Barbasch, T.^{D*}, Rüger, T.^P, Srinivasan, M., Thompson, S.^U, Majoris, J.^P, Johnson, C., Sinclair-Taylor, T., Harrison, H., Berumen, M., Wong, M., Jones, G. & **Buston, P.** Local environment influences reproduction, parental care and larval traits in the clownfish *Amphiprion percula*. *Animal Behavior Society, Chicago, USA.*
- 2019 Barbasch, T.^{D*}, Rüger, T.^P, Srinivasan, M., Thompson, S.^U, Majoris, J.^P, Johnson, C., Sinclair-Taylor, T., Harrison, H., Berumen, M., Wong, M., Jones, G. & **Buston, P.** Local environment influences reproduction, parental care and larval traits in the clownfish *Amphiprion percula*. *Evolution, Providence, RI, USA.*
- 2019 Branconi, R.^{D*}, Barbasch, T.^D, Francis, R.^D, Srinivasan, M., Jones, G. & **Buston, P.** Ecological and social constraints combine to promote social evolution in clownfish. *Societa Italiana Etologia, Florence, Italy.*

- 2019 Branconi, R. ^{D*}, Barbasch, T. ^D, Francis, R. ^D, Srinivasan, M., Jones, G. & **Buston, P.** Ecological and social constraints combine to promote social evolution in clownfish.
European Society for Evolutionary Biology, Turku, Finland.
- 2019 Rueger, T. ^{P*}, Barbasch, T. ^D, Wong, M., Srinivasan, M., Jones, G. & **Buston P.** Reproductive control via the threat of eviction in the clown anemonefish.
Animal Behavior Society, Chicago, USA.
- 2019 Majoris, J. ^{P*}, Foretich, M., Hu, Y., Nickles, K., DiPersia, C., Chaput, R., Schlatter, E., Webb, J., Paris, C. & **Buston, P.** Larval orientation behavior begins shortly after hatching and may contribute to restricted dispersal in a coral reef fish.
Larval Fish Conference, Palma, Mallorca, Spain.
- 2018 Majoris, J. ^{D*}, D'Aloia, C., Francis, R. & **Buston, P.** Differential persistence favors habitat preferences that determine the distribution of a coral reef fish.
Larval Fish Conference, Victoria, BC, Canada.
- 2018 Majoris, J. ^{D*}, Foretich, M., Chaput, R., Schlatter, E., Di Persia, C., Paris, C. & **Buston, P.** Larval orientation behavior begins shortly after hatching in a coral reef fish.
Larval Fish Conference, Victoria, BC, Canada.
- 2018 Hu, Y. ^{P*}, Majoris, J. ^D, **Buston, P.** & Webb, J. Ontogeny of the ear in the pelagic larvae of coral reef fishes (Gobiidae, Pomacentridae, Apogonidae)
American Society of Ichthyologists and Herpetologists, Rochester, NY, USA.
- 2018 Majoris, J. E. ^{D*}, D'Aloia, C. C., Francis, R. K. ^D & **Buston, P. M.** Differential persistence favors habitat preferences that determine the distribution of a reef fish.
Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA, USA.
- 2018 Nickles, K. R. ^{M*}, Hu, Y. ^P, Majoris, J. E. ^D, **Buston, P. M.** & Webb, J. F. Pre- and post-settlement ontogeny of the lateral line system of a Caribbean reef goby, *Elacatinus lori*.
Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA, USA
- 2018 Shaw, A. K.* , D'Aloia, C. C. & **Buston, P.** The evolution of marine larval dispersal kernels in spatially structured habitats.
American Society of Naturalists Meeting, Asilomar, CA, USA.
- 2018 Webb, J.F.* , Hu, Y., Nickles, K. R., Majoris, J. E. & **Buston, P. M.** How do Coral Reef Fish Larvae Find A Home?: Insights From Sensory Organ Ontogeny
Larval Fish Conference, Victoria, BC, Canada.
- 2017 D'Aloia, C. C. ^D, Bogdanowicz, S, M., Francis, R. ^U, Majoris, J. ^D, Harrison, R. G. & **Buston, P.*** Patterns, causes and consequences of marine larval dispersal
IndoPacific Fish Conference, Tahiti
- 2017 Majoris, J. ^{D*}, Catalano, K. ^U, Scolaro, D. ^U, Atema, J. & **Buston, P.** Ontogeny of swimming abilities of larval reef fishes, and a hypothesis for their impact on the spatial scale of dispersal
IndoPacific Fish Conference, Tahiti
- 2017 Nickles, K. ^{M*}, Hu, Y. ^P, Majoris, J. ^D, **Buston, P.** & Webb, J. Ontogeny of the lateral line system in a Caribbean Reef Goby, *Elacatinus lori*.
American Society of Ichthyologists and Herpetologists, Austin, Texas, USA.
- 2017 Schlatter, E.* , Webb, CTW & **Buston, PM.** Modeling population dynamics for sustainable harvest of orange clownfish.
IndoPacific Fish Conference, Tahiti
- 2016 Barbasch, T. ^{D*} & **Buston, P.** Plasticity and personality of parental care in clown anemonefish.
International Society for Behavioral Ecology, Exeter, UK.

- 2016 Branconi, R. ^{D*}, Wong, M. Y. L. & **Buston, P.** Does the presence of a SCUBA diver influence fish behavior: a case study using the humbug damselfish *Dascyllus aruanus*.
International Society for Behavioral Ecology, Exeter, UK.
- 2016 D'Aloia, C. C. ^{D*}, Bogdanowicz, S, M., Francis, R. ^U, Majoris, J. ^D, Harrison, R. G. & **Buston, P.** Patterns, causes and consequences of marine larval dispersal
International Coral Reef Symposium, Hawaii, USA.
- 2016 Majoris, J. E. ^{D*}, Catalano, C. ^U, Atema, J. & **Buston, P. M.** The tortoise and the hare: development of swimming abilities in larvae of two coral reef fishes with short distance dispersal.
Society for Integrative and Comparative Biology
- 2016 Shaw, A. K., D'Aloia, C. C. & **Buston, P***. The evolution of marine larval dispersal kernels in spatially structured habitats.
International Coral Reef Symposium, Hawaii, USA.
- 2016 Wong, M. Y. L. ^P, Uppaluri, C. ^U, Medina, A. ^U, Seymour, J. & **Buston, P ***. The four elements of within-group conflict in an animal society.
International Society for Behavioral Ecology, Exeter, UK.
- 2015 D'Aloia, C. C. ^D, Bogdanowicz, S, M., Francis, R. ^U, Majoris, J. ^D, Harrison, R. G. & **Buston, P.*** A complete marine larval dispersal kernel.
Larval Fish Conference, Vienna, Austria.
- 2015 D'Aloia, C. C. ^{D*}, Bogdanowicz, S, M., Harrison, R. G. & **Buston, P. M.** Fine-scale spatial genetic structure in a coral reef fish metapopulation.
Larval Fish Conference, Vienna, Austria.
- 2015 Lindo, D. ^{P*}, Curcic, M., Paris C. & **Buston, P. M.** Evaluating surface transport predictions of alternative ocean-atmosphere models using surface drifters in the Belizean Barrier Reef.
Larval Fish Conference, Vienna, Austria.
- 2015 D'Aloia, C. C. ^D, Bogdanowicz, S, M., Francis, R. ^U, Majoris, J. ^D, Harrison, R. G. & **Buston, P***. A complete marine larval dispersal kernel.
International Association for Landscape Ecology Word Congress, Portland, Oregon, USA.
- 2015 D'Aloia, C. C. ^{D*}, Bogdanowicz, S, M., Harrison, R. G. & **Buston, P. M.** Fine-scale spatial genetic structure in a coral reef fish metapopulation.
International Association for Landscape Ecology Word Congress, Portland, Oregon, USA.
- 2015 Majoris, J. E. ^{D*}, Francisco, F. ^U, Burns, C. ^U, Atema, J. & **Buston, P. M.** Hatching plasticity in a coral reef fish: patterns, causes and consequences.
Society for Integrative and Comparative Biology, Fort Lauderdale, Fl.
- 2014 Barbasch, T ^{D*}. & **Buston, P. M.** Negotiations over parental effort: proximate causes of variation in reproductive effort in a social fish.
International Society for Behavioral Ecology, New York.
- 2014 **Buston, P. M.***, Fauvelot, C., Wong, M. Y. L. ^P & Planes, S. Genetic relatedness in groups of the humbug damselfish *Dascyllus aruanus*: small, similarly-sized individuals may be close kin.
International Society for Behavioral Ecology, New York.
- 2014 **Buston, P. M ***. An integrative investigation of population connectivity using a coral reef fish.
Ecological Society of America Annual Meeting, Sacramento, CA.
- 2014 D'Aloia, C. C. ^{D*}, Bogdanowicz, S, M., Harrison, R. G. & **Buston, P. M.** Toward the complete dispersal curve of a coral reef fish.
Ecological Society of America Annual Meeting, Sacramento, CA.
- 2014 Lindo-Atichati, D. ^{P*}, Curcic, M., **Buston, P.** & Paris, C. B. On the physical connectivity along the Belize Barrier Reef: an atmospheric-hydrodynamic model to study population connectivity.

- Ocean Sciences Meeting*, Honolulu, Hawaii.
- 2014 Majoris, J. M. ^{D*}, D'Aloia C. C. ^D & **Buston, P. M.** Settler preferences and post-settlement processes combine to explain the distribution of the sponge goby *Elacatinus lori*. *Society for Integrative and Comparative Biology*, Austin, Texas.
- 2014 Majoris, J. M. ^{D*}, D'Aloia C. C. ^D & **Buston, P. M.** Settler preferences and post-settlement processes combine to explain the distribution of the sponge goby *Elacatinus lori*. *International Society for Behavioral Ecology*, New York.
- 2014 Schmiede, P. ^{U*} & **Buston, P. M.** Behavioral traits of anemonefish affect the anemone-anemonefish mutualism. *Ecological Society of America Annual Meeting*, Sacramento, CA.
- 2012 **Buston, P. M.***, Jones, G. P., Planes, S. & Thorrold, S. Probability of successful larval dispersal declines fivefold over one kilometer in a coral reef fish. *International Coral Reef Symposium*, Cairns, Australia.
- 2012 **Buston, P. M.***, Fauvelot, C., Wong, M. Y. L. ^P & Planes, S. Genetic relatedness in groups of the humbug damselfish *Dascyllus aruanus*: small, similarly-sized individuals may be close kin. *Animal Behavior Society*, Albuquerque, New Mexico.
- 2012 Wong, M. Y. L. ^{P*}, Fauvelot, C., Planes, S. & **Buston, P. M.** Reproductive sharing in the humbug damselfish *Dascyllus aruanus*. *Animal Behavior Society*, Albuquerque, New Mexico.
- 2012 Medina, A. ^{U*}, Uppaluri, C. ^U, Arnold, S. ^U, Wong, M. Y. L. ^P & **Buston, P. M.** Behavioral consistency and personality variation in the clownfish *Amphiprion ocellaris*. *Animal Behavior Society*, Albuquerque, New Mexico.
- 2008 **Buston, P. M.*** The ecology and evolution of hermaphroditism. *Analogies in Evolution of Sexual Strategies in Animals and Plants*, Neuhausen, Germany.
- 2008 **Buston, P. M.***, Cant, M. A., Emlen, S. T., Reeve, H. K., Vehrencamp, S. L. & Zink, A. Reproductive skew and the evolution of conflict resolution. *International Behavioral Ecology Congress*, Ithaca, NY, USA.
- 2006 **Buston, P. M. *** & Emlen, S. T. Cognitive processes underlying human mate choice. *International Behavioral Ecology Congress*, Paris, France.
- 2002 **Buston, P. *** Resolution of potential evolutionary conflict over group membership in clownfish. *International Behavioral Ecology Congress*. Montreal, Canada.
- 2000 **Buston, P. M. *** Forcible eviction and prevention of recruitment in the clownfish. *International Behavioral Ecology Congress*. Zurich, Switzerland
- 1998 **Buston, P. M. *** Ecology, Mating Systems, and the Evolution of Hermaphroditism. *Ecological and Evolutionary Ethology of Fishes Conference*. Seattle, WA USA.

Symposium Participation

- 2022 Invited participant in the symposium entitled “How can we achieve a productive collaboration between game theory modelers and empiricists”. *International Society for Behavioral Ecology*, Stockholm, Sweden.
- 2022 Co-chair for mini-symposium entitled “Patterns, causes and consequences of intraspecific variation in marine larval dispersal and population connectivity”. *International Coral Reef Symposium*, Bremen, Germany.
- 2021 Co-chair for mini-symposium entitled “Patterns, causes and consequences of intraspecific variation in marine larval dispersal and population connectivity”. *International Coral Reef Symposium*, Bremen, Germany. (Virtual).

- 2020 Co-chair for session entitled “Population connectivity in aquatic ecosystems”.
Ocean Sciences Meeting, San Diego, California, USA.
- 2017 Invited participant in the symposium entitled “Matching biophysical larval dispersal models to empirical data (genetic data) in studies of population connectivity”
Indo Pacific Fish Conference, Tahiti
- 2016 Co-chair for mini-symposium entitled “Connectivity among coral reef populations”.
International Coral Reef Symposium, Hawaii, USA.
- 2015 Invited participant in the symposium entitled “Larval Dispersal and Population Connectivity”.
Larval Fish Conference, Vienna, Austria.
- 2015 Invited participant in the symposium entitled “Waterscape Genetics – Applications of Landscape Genetic Approaches to Freshwater and Marine Settings”.
International Association of Landscape Ecologists, Portland, Oregon, USA.
- 2014 Invited participant in the symposium entitled “Integrating Dispersal Into Life Histories: Empirical and Theoretical Approaches in Aquatic and Terrestrial Systems”.
Ecological Society of America Annual Meeting, Sacramento, California, USA.
- 2013 Invited participant in the “Shermania” symposium, to celebrate retirement of P. W. Sherman.
Department of Neurobiology and Behavior, Cornell University, NY, USA.
- 2012 Co-chair for mini-symposium entitled “The Ecological Importance of Larval Dispersal”.
International Coral Reef Symposium, Cairns, Australia.
- 2011 Invited moderator for session entitled “Reproductive Conflict”.
Ethology Investigates: Cooperation (online conference on cooperation).
- 2006 – 2008 Participant in workshop entitled “Machine Learning for the Environment” (4 meetings).
National Center for Ecological Analysis and Synthesis.
- 2002 – 2008 Participant in workshop entitled Reproductive Skew: a Critical Assessment (4 meetings).
Department of Neurobiology and Behavior, Cornell University.

Invited Seminars

- 2026 Institute of Biology, University of Neuchatel, Neuchatel, Switzerland.
- 2024 Department of Anthropology, Boston University, Boston, MA, USA.
- 2024 Department of Biology, University of Nevada, Reno, NV, USA. (Cancelled).
- 2024 Darwin Festival Speaker, Salem State University, Massachusetts, USA.
- 2024 School of Biological and Marine Sciences, University of Plymouth, Plymouth, UK.
- 2023 Frontiers in Social Evolution (FINE), International Remote Seminar.
- 2023 Department of Anthropology, Yale University, Connecticut, USA. (Cancelled).
- 2023 Shoals Marine Laboratory, Appledore Island, Kittery, Maine, USA.
- 2023 Department of Biochemistry, Boston University Medical Campus, Boston, USA.
- 2020 Department of Biology, Université de Québec à Rimouski, Quebec, Canada.
- 2020 Laboratoire d’Ethologie Expérimentale et Comparée, Université Sorbonne, Paris, France.
- 2020 School of Environmental and Biological Sciences, Rutgers University, NJ, USA.
- 2020 Department of Marine Biology and Ecology, University of Miami, FL, USA. (Cancelled).
- 2019 Department of Ecology, Evolution and Behavior, University of Minnesota, Minnesota, USA.

- 2019 King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.
- 2019 School of Natural Sciences and Psychology, Liverpool John Moores University, Liverpool, UK.
- 2018 Okinawa Institute of Science and Technology, Okinawa, Japan.
- 2018 Department of Biology, Bowdoin College, Brunswick, Maine, USA.
- 2018 King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.
- 2018 Richard Gilder Graduate School, American Museum of Natural History, New York, NY, USA.
- 2017 Program in Ecology, Evolution and Conservation Biology, University of Illinois, Urbana, USA.
- 2017 College of Life and Environmental Sciences, University of Exeter, Exeter, UK.
- 2016 Department of Psychology, McMaster University, Hamilton, Ontario, Canada.
- 2016 Corning School of Ocean Studies, Maine Maritime Academy, Castine, Maine, USA.
- 2015 School of Biological Sciences, University of East Anglia, UK.
- 2015 Department of Biological Sciences, Dartmouth College, USA.
- 2015 Department of Biology, Boston University, Boston, USA.
- 2015 Department of Marine and Environmental Sciences, Northeastern University, Boston, USA.
- 2014 Lizard Island Research Station, Australian Museum, Queensland, Australia.
- 2014 School of Marine Biology and Aquaculture, James Cook University, Queensland, Australia.
- 2014 Department of Biological Sciences, Macquarie University, Sydney, Australia.
- 2014 School of Biological Sciences, University of New South Wales, Sydney, Australia.
- 2014 School of Biological Sciences, University of Wollongong, Wollongong, Australia.
- 2014 Department of Evolution, Ecology and Organismal Biology, Ohio State University, USA.
- 2013 Department of Biology, Boston University, Boston, USA.
- 2013 Department of Biological Sciences, University of Pittsburgh, Pittsburgh, USA.
- 2013 Biology Department, U Mass Amherst, Amherst, USA.
- 2013 School of Environmental and Biological Sciences, Rutgers University, NJ, USA.
- 2012 Department of Biological Science, University of Rhode Island, Rhode Island, USA.
- 2012 Darwin Festival Speaker, Salem State University, Massachusetts, USA.
- 2011 Department of Ecology and Evolutionary Biology, Yale University, Connecticut, USA.
- 2010 Biology department, U Mass Dartmouth, Massachusetts, USA.
- 2010 Woods Hole Oceanographic Institution, Massachusetts, USA.
- 2009 Department of Biology, Colorado State University, Fort Collins, CO, USA.
- 2009 School of Biological Sciences, University of Exeter, Exeter, UK.
- 2009 Department of Biology & Boston University Marine Program, Boston, MA, USA.
- 2008 Center for Ecology and Conservation, University of Exeter, Cornwall, UK.
- 2007 University of the South Pacific, Suva, Fiji.
- 2006 Centre de Biologie et d'Ecologie Tropicale et Mediterraneenne, University of Perpignan, France.
- 2005 Department of Anthropology, University of California, Davis, CA, USA.

- 2005 Center for Population Biology, University of California, Davis, CA, USA.
- 2005 Department of Zoology, University of Cambridge, Cambridge, UK.
- 2005 School of Marine Biology and Aquaculture, James Cook University, Queensland, Australia.
- 2004 Department of Zoology, University of Cambridge, Cambridge, UK.
- 2004 Department of Behavioural Ecology, Zoological Institute, University of Bern, Switzerland.
- 2004 Estación Biológica de Doñana, CSIC, Sevilla, Spain.
- 2004 Bamfield Marine Science Center, University of British Columbia, Bamfield, Canada.
- 2004 Department of Biology, New Mexico State University, Las Cruces, New Mexico, USA.
- 2002 Department of Ecology, Evolution, and Marine Biology, UC Santa Barbara, CA, USA.
- 2002 Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ, USA.
- 2001 Department of Psychology, McMaster University, Hamilton, Ontario, Canada.
- 2001 Division of Life Sciences, University of Toronto, Scarborough, Ontario, Canada.
- 2001 Department of Biology, McGill University, Montreal, Quebec, Canada.
- 2000 Museum of Vertebrate Zoology, Department of Integrative Biology, UC Berkeley, CA, USA.

Service Within the Department of Biology at Boston University

Miscellaneous Service

2025	Chair of Ecology and Marine Biology Lecturer II Search Committee
2025, 2024	Member of Global Change Biology Faculty Search Committee
2024	Chair of Ecology and Marine Biology Lecturer I Search Committee
2024, 2023, 2020	Biology Appointments, Promotions, and Tenure Committee
2024, 2023, 2022, 2021, 2020	Biology Antiracism Committee
2025 - 2021, 2015 - 2012	Facilitator of Progress in Ecology, Evolution, and Behavior
2024 - 2011	Undergraduate Advising
2022, 2021	Member of Evolutionary Biology Faculty Search Committee
2022, 2020	Biology First Generation Student Virtual Reception
2020	Behavioral Biology Virtual Reception
2019, 2018, 2017	Director of Graduate Studies
2016, 2015, 2014, 2013	Chair of Graduate Committee
2014, 2013, 2010	Open House Lab Tours
2014	Assessment in Departments and Programs workshop
2014	BioBugs Lunch Round Table
2013, 2012, 2011	Ecology, Evolution and Behavior Seminar Organizer
2012	Member of Microbial Ecology Search Committee
2012	Member of Graduate Committee
2010	BioMixer

Hosted Seminars

2022	Dr. Kate Laskowski, UC Davis, USA.
2019	Dr. Allison Shaw, University of Minnesota, USA.
2018	Dr. Malin Pinsky, Rutgers University, USA.
2014	Dr. Sasha Dall, Exeter University, UK.
2012	Dr. Geoff Jones, James Cook University, Australia.
2012	Dr. Maya Srinivasan, James Cook University, Australia.
2012	Dr. Patricia Brennan, University of Massachusetts at Amherst, USA.
2012	Dr. Dustin Rubenstein, Columbia University, USA.
2012	Dr. Jacqueline Webb, University of Rhode Island, USA.
2012	Dr. Peter Sale, Windsor University, Canada.
2011	Dr. Suzanne Alonzo, Yale University, USA.
2011	Dr. Claire Paris, University of Miami, USA.
2011	Dr. Maydianne Andrade, University of Toronto, Canada.
2010	Dr. Andrew Russell, University of Sheffield, UK.

Faculty mentor

- 2023 – 2025 Sofia Casasa, Assistant Professor, Department of Biology, Boston University, USA.
2017 – 2025 Sarah Davies, Assistant Professor, Department of Biology, Boston University, USA.
2014 – 2015 Siobhan Mattison, Research Assistant Professor, Department of Biology, BU, USA.
Assistant Professor of Anthropology at University of New Mexico.

Postdoctoral mentor

- 2025 – 2027 Fritz Francisco, Department of Biology, Boston University, USA.
2023 – 2025 Robin Francis (PAL), Department of Biology, Boston University, USA.
2023 – 2024 Karina Scavo (PAL), Department of Biology, Boston University, USA.
2020 – 2022 Tina Barbasch, Department of Biology, Boston University, USA.
2019 – 2022 Theresa Rueger, Department of Biology, Boston University, USA.
Postdoc, Center for Ecology and Conservation, University of Exeter, UK.
2017 – 2018 John Majoris, Department of Biology, Boston University, USA.
Postdoc, Biological and Environmental Science Division, KAUST, Saudi Arabia.
2011 – 2012 Marian Wong, Department of Biology, Boston University, USA.
Senior Lecturer, School of Biological Sciences, University of Wollongong, Australia.

Ph.D. advisor / co-advisor

- 2024 – 2029 Zoé Chamot, Department of Biology, Boston University, USA.
2023 – 2028 Paige Becker, Department of Biology, Boston University, USA.
2022 – 2027 Morgan Bennett-Smith, Department of Biology, Boston University, USA.
2021 – 2027 Lili Vizer, Department of Biology, Boston University, USA.
2018 – 2025 E Schlatter, Department of Biology, Boston University, USA.
2016 – 2023 Robin Francis, Department of Biology, Boston University, USA.
PAL in the Department of Biology, Boston University, USA.
2014 – 2021 Rebecca Branconi, Department of Biology, Boston University, USA.
Affiliate Scientist Penn State
2013 – 2020 Tina Barbasch, Department of Biology, Boston University, USA.
PAL in the Department of Biology, Boston University, USA.
NSF Postdoc
2010 – 2017 John Majoris, Department of Biology, Boston University, USA.
Postdoc in the Department of Biology, Boston University, USA.
Postdoc in the Biological and Environmental Science Division, KAUST, Saudi Arabia
Postdoc in the, UT Austin, USA.
2010 – 2015 Cassidy D'Aloia, Department of Biology, Boston University, USA.
Postdoc in the Department of Ecology and Evolution, University of Toronto, Canada.
WHOI Postdoc in the Department of Biology, WHOI, USA.
Assistant Professor, Department of Biology, University of New Brunswick

Masters advisor / co-advisor

- 2025 – 2026 Irini Livanos, Department of Biology, Boston University, USA.

- 2021 – 2022 Matt Gendron, Department of Biology, Boston University, USA.
2020 – 2021 Madison Pacaro, Department of Biology, Boston University, USA.
2019 – 2020 Anjali Bhardwaj, Department of Biology, Boston University, USA.
2018 – 2020 Leah Desrochers, Department of Biology, Boston University, USA.
2012 – 2017 Jeremiah Seymour, Department of Biology, Boston University, USA.
Supervisor at Children's Aquarium at Fair Park, Dallas, Texas.
2011 – 2014 Alissa Rickborn, Department of Biology, Boston University, USA.
Ph.D. student in the Department of Integrative Biology, Oregon State University.

Undergraduate honors advisor

- 2021 – 2022 Genevieve Tostevin
2019 – 2020 Madison Pacaro
2015 – 2016 Christina Menniti
2013 – 2014 Philip Schmiede

Ph.D. committee member

- 2025 – 2030 Adrian Cheh, Department of Biology, Boston University, USA. (Chair).
2025 – 2029 Cat Hauser, Department of Biology, Boston University, USA. (Chair).
2024 – 2029 Ninon Martinez, Department of Biology, Boston University, USA. (Chair).
2024 – 2029 Fabio Buitrago, Department of Biology, Boston University, USA. (Chair).
2020 – 2026 Abigail Robinson, Department of Biology, Boston University, USA (Chair).
2018 – 2023 Caroline Fleming, Department of Biology, Boston University, USA.
2018 – 2023 James Fifer, Department of Biology, Boston University, USA. (Second Reader).
2018 – 2023 Hannah Aichelman, Department of Biology, Boston University, USA (Second Reader).
2018 – 2023 Daniel Wuitchik, Department of Biology, Boston University, USA (Second Reader).
2017 – 2023 Brandon Guell, Department of Biology, Boston University, USA (Second Reader).
2017 – 2022 Nicola Kriefall, Department of Biology, Boston University, USA (Chair).
2016 – 2021 Isabella Muratore, Department of Biology, Boston University, USA (Chair).
2015 – 2021 Javier Mendez, Department of Biology, Boston University, USA (Chair).
2015 – 2021 Julie Jung, Department of Biology, Boston University, USA.
2015 – 2021 Nick Ray, Department of Biology, Boston University, USA.
2014 – 2021 Karina Scavo, Department of Biology, Boston University, USA. (Chair)
2014 – 2020 Sasha Vivello, Department of Biology, Boston University, USA.
2014 – 2020 Will Caffry, Department of Biology, Boston University, USA.
2014 – 2019 Evan Kristiansen, Department of Biology, Boston University, USA. (Chair)
2013 – 2020 Katey Lesneski, Department of Biology, Boston University, USA. (Chair)
2011 – 2018 Jesse Delia, Department of Biology, Boston University, USA. (Second Reader)
2010 – 2017 Kristina Cohen, Department of Biology, Boston University, USA.

- 2010 – 2017 Elizabeth Burmester, Department of Biology, Boston University, USA.
2009 – 2014 Aryn Wilder, Department of Biology, Boston University, USA.

Masters committee member

- 2021 – 2023 Jessica Herrmann, Department of Biology, Boston University, USA.
2021 – 2023 Emily Turner, Department of Biology, Boston University, USA.
2014 – 2017 James Garner, Department of Biology, Boston University, USA.
2013 – 2017 Andrew Hoadley, Department of Biology, Boston University, USA.
2011 – 2014 Julie Nicol, Department of Biology, Boston University, USA.
2010 – 2014 Sarah Pilzer, Department of Biology, Boston University, USA.
2009 – 2012 Eli Romero, Department of Biology, Boston University, USA.
2009 – 2011 Tejashree Modak, Department of Biology, Boston University, USA.

Undergraduate honors committee member

- 2018 – 2019 Emma Martin

Undergraduate mentor

- 2025 – 2028 Madeleine Lam, Department of Biology, Boston University
2025 – 2028 Christiana Lycette, Department of Biology, Boston University
2025 – 2028 Sophie Myers, Department of Biology, Boston University
2025 – 2028 James Zhang, Department of Biology, Boston University
2024 – 2027 Isabella Cruz, Department of Biology, Boston University
2024 – 2027 Mason Murchison, Department of Biology, Boston University
2024 – 2027 Anna Royse, Department of Biology, Boston University
2024 – 2027 Katherine Smith, Department of Biology, Boston University
2024 Manoc Jao-Griffith, Department of Biology, Boston University (SURF)
2023 – 2026 Simone Fishman, Department of Biology, Boston University
2023 – 2026 Mia Maisel, Department of Biology, Boston University
2023 – 2026 Sophie Martorana, Department of Biology, Boston University
2023 – 2026 Emma Sanchez, Department of Biology, Boston University
2023 – 2026 Joseph Yoon, Department of Biology, Boston University
2022 – 2025 Paulina Azzu, Department of Biology, Boston University
2022 – 2025 Sophia Beredo, Department of Biology, Boston University (UROP; Hons)
2022 – 2025 Irimi Livanos, Department of Biology, Boston University (UROP; Hons)
2022 – 2025 Julia Westwood, Department of Biology, Boston University (UROP; Hons)
2022 – 2023 Tianxing (Charles) Zhao, Department of Biology, Boston University
2021 – 2024 Aditi Amin, Department of Biology, Boston University

- 2021 – 2024 Flora Kerner, Department of Biology, Boston University (UROP; Hons)
- 2021 – 2024 Reid Thomson, Department of Biology, Boston University (UROP; Hons)
- 2020 – 2024 Douglas Alvarado, Department of Biology, Boston University (SURF; UROP; Hons)
Winner of M. Spelleken & G. Bauer Memorial Award in Aquatic Biology
- 2020 – 2023 Natalia Karadimitriou, Department of Biology, Boston University (UROP; Hons)
Winner of Lara Vincent Research Award in Marine Science
- 2020 – 2022 Raphael Edwards, Department of Biology, Boston University (UROP)
- 2019 – 2022 Diane Hwangpo, Department of Biology, Boston University (UROP)
- 2019 – 2022 Genevieve Tostevin, Department of Biology, Boston University (Hons)
- 2019 – 2021 Emily Turner, Department of Biology, Boston University (UROP; Hons)
- 2019 – 2020 Duaa Ahmed, Department of Biology, Boston University
- 2019 – Ameer Ahmed, Department of Biology, Boston University (critical advisee)
- 2018 – 2021 Kurt Castro, Department of Biology, Boston University (UROP; Hons)
- 2018 – 2020 Michaela Rogers, Department of Biology, Boston University (UROP; Hons)
- 2018 – 2018 Mikaela Schniedewind, Department of Biology, Boston University
- 2017 – 2020 Caitlynn Klawon, Department of Biology, Boston University (UROP; Hons)
- 2017 – 2020 Madison Pacaro, Department of Biology, Boston University (UROP; Hons)
Winner of Outstanding Undergraduate Research in Biology Award
- 2016 – 2019 Daniel Chavez Andonie, Department of Biology, Boston University (UROP)
- 2016 – 2019 Sadie Thompson, Department of Biology, Boston University (UROP, SURF; Hons)
- 2016 – 2017 Zachary Milot, Department of Biology, Boston University
- 2016 Braiam Rosado, Department of Biology, Boston University (SURF)
- 2015 – 2018 Alexander Maytin, Department of Biology, Boston University (UROP; Kilachand Hons).
- 2015 – 2018 Cymone Reed, Department of Biology, Boston University (UROP, SURF).
- 2015 – 2017 Gabriella Smith, Department of Biology, Boston University (UROP).
- 2014 – 2017 Alex Ascher, Department of Biology, Boston University (UROP; Hons).
- 2014 – 2017 Spencer Showalter, Department of Biology, Boston University.
- 2014 – 2016 Christina Menniti, Department of Biology, Boston University (Hons).
- 2014 – 2016 Jarrod Moore, Department of Biology, Boston University (UROP, SURF).
- 2014 – 2016 Linda Wong, Department of Biology, Boston University (UROP).
- 2013 – 2016 Katrina Catalano, Department of Biology, Boston University (UROP; Hons).
- 2013 – 2016 Andrew Lacqua, Department of Biology, Boston University (UROP).
- 2013 – 2015 Athbah Almuhairi, Department of Biology, Boston University (UROP).
- 2013 – 2015 Cara Martone, Department of Biology, Boston University (UROP).
- 2012 – 2015 James Ferritto, Department of Biology, Boston University (UROP).
- 2012 – 2014 Philip Schmiedege, Department of Biology, Boston University (UROP; Hons).
- 2012 – 2014 Derek Scolaro, Department of Biology, Boston University (UROP; Hons).
- 2011 – 2014 Diana Acosta, Department of Biology, Boston University (UROP, SURF).
- 2012 – 2013 Samantha Andrews, Department of Biology, Boston University.

- 2011 – 2013 Corinne Burns, Department of Biology, Boston University (UROP; Hons).
2011 – 2013 Arianna Medina, Department of Biology, Boston University (UROP, SURF).
2011 – 2013 Curran Uppaluri, Department of Biology, Boston University (UROP).
2011 Stacy Arnold, Department of Biology, Boston University (SURF).

Service Beyond the Department of Biology at Boston University

Ph.D. committee member

- 2022 – 2023 Kelly Miao, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, USA. (Second Reader).
 2017 – 2022 John Foster, Department of Earth and Environment, Boston University, USA. (2nd reader)

Masters committee member

- 2024 – 2025 Ritika Sibal, Department of Anthropology, Boston University, USA.

Undergraduate honors advisor

- 2020 – 2021 Kurt Castro (Marine Science)
 2020 – 2021 Emily Turner (Marine Science)
 2019 – 2020 Caitlynn Klawon (Marine Science)
 2019 – 2020 Michaela Rogers (Marine Science)
 2018 – 2019 Sadie Thompson (Marine Science)
 2016 – 2017 Alex Ascher (Marine Science)
 2015 – 2016 Katrina Catalano (Marine Science)
 2013 – 2014 Derek Scolaro (Marine Science)
 2012 – 2013 Corinne Burns (Marine Science)

Undergraduate honors committee member

- 2020 – 2021 Lauren Knasin (Marine Science)
 2019 – 2020 Gretchen McCarthy (Marine Science)
 2016 – 2017 Spencer Showalter (Marine Science)
 2014 – 2015 Matthew Talbot (Marine Science)
 2014 – 2015 Paul Riley (Marine Science)
 2012 – 2013 Samantha Andrews (Marine Science)
 2012 – 2013 Mary-Kate Rogener (Marine Science)

Miscellaneous Service

- 2025 Member of the Campus Framework Working Group – Research, Innovation, and Convergence
 2024, 2023, 2022, 2021, 2020, 2019 Director of Boston University Marine Program
 2024, 2023, 2022, 2016, 2015, 2014, 2013 Member of Dive Control Board, EH&S
 2023 Member of the Dive Safety Officer Search Committee
 2022, 2021, 2020, 2019, 2018, 2017 Chair of Dive Control Board, Environmental Health and Safety
 2022, 2021 Member of Coastal Marine Science Faculty Search Committee
 2022, 2021 Member of Global Faculty Advisory Committee
 2019 Member of the Goldwater Scholarship Nomination Committee
 2019 Member of the Trustee Scholars Selection Committee
 2019, 2018, 2017 Member of Graduate Academic Affairs Committee

2019, 2018, 2017, 2016, 2015	Associate Director of Boston University Marine Program
2017	Member of the Dive Safety Officer Search Committee
2017, 2012	Presentation to student Marine Science Association
2015, 2014, 2013	Member of UROP Faculty Advisory Committee.
2014, 2012	Facilitator, Responsible Conduct of Research Program, Workshop I
2014, 2012	Facilitator, Responsible Conduct of Research Program, Workshop II
2014	Facilitator, Responsible Conduct of Research Program, Workshop III
2014	Facilitator, Responsible Conduct of Research Program, Workshop IV
2013, 2012	Representative for Marine Science at the Academic Departmental Expo
2013	Member of BUMP working group to develop a Student Learning Outcomes Assessment.
2012	Instructor, Skin Diving for Marine Semester, Boston University Marine Program.

Professional development relevant to BU Marine Program

2017	PADI Nitrox course
2014	SSI – Free Diving course.
2013	SSI – Science of Diving course.
2011	American Academy of Underwater Sciences, Dive Safety Officer orientation and training
2011	Divers Alert Network, First Aid / CPR / Oxygen provision, Instructor course
2010	SSI – Dry-suit diving course.
2010	NAUI – SCUBA Instructor course.
2010	Red Cross – First Aid / CPR / AED course.
2010	NASBLA / US Coast Guard – Boating Safety course.
1996	PADI – SCUBA Instructor course

Service Outside of Boston University

Consultant – Scientific Expert

- 2023 BBC Blue Planet III
 2017 BBC Blue Planet II: Coral Reefs: Cooperative Clownfish
 2015 NOAA: Status Review Report: Orange Clownfish *Amphiprion percula*.

Reviews – Associate Editor

- 2024 – 2025 Proceedings of the Royal Society of London, Series B
 2021 – 2023 Behavioral Ecology
 2014 – 2020 Frontiers in Ecology and Evolution
 2010 – 2013 Behavioral Ecology and Sociobiology

Reviews – Panelist

- 2013 NSF Biological Oceanography Program
 2012 Animal Behavior – Student Awards
 2011 Animal Behavior – Student Awards

Reviews – Grant Proposals

- 2009 – 2023 National Science Foundation (11)
 National Geographic (1)

Reviews – Scientific Manuscripts

- 2003 – 2024 American Naturalist, Animal Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, BioMed Central Biology, Biological Bulletin, Biology Letters, Biological Reviews, Canadian Journal of Zoology, Copeia, Coral Reefs, Current Biology, Ecology, Ecology Letters, Environmental Biology of Fishes, Ethology, Evolution, Evolutionary Ecology, Journal of Animal Ecology, Journal of Fish Biology, Journal of Theoretical Biology, Marine Biology, Marine Ecology Progress Series, Molecular Ecology, Molecular Ecology Resources, Marine and Freshwater Research, Nature, Nature Ecology & Evolution, Oecologia, Oikos, PLOS One, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society Series B, Royal Society Open Science, Science, Trends in Ecology and Evolution.

Reviews – Undergraduate Programs

- 2018 University of Belize – Bachelors of Science in Marine Biology

Faculty external referee

- 2023 Daniel Holstein, Department of Oceanography, Louisiana State University, USA.

Postdoctoral mentor / co-mentor

- 2013 – 2016 David Lindo (Advisor: Claire Paris), University of Miami, USA.
 Assistant Professor of Engineering and Science at City University of New York.

Ph.D. committee member

- 2023 – Present Camille Sautereau (Advisors: V. Laudet & L. Besseau), Sorbonne, Paris, France.
2015 – 2018 Romain Chaput (Advisor: Claire Paris), University of Miami, USA.
2012 – 2017 Matt Foretich (Advisor: Claire Paris), University of Miami, USA.
2008 – 2012 Letizia Campioni (Advisor: V. Penteriani), Estación Biológica de Doñana, Sevilla, Spain.
2004 – 2007 Marian Wong (Advisor: P. Munday), James Cook University, Townsville, Australia.

Ph.D. external examiner

- 2024 Noah Locke (Advisor: Vincent Laudet), OIST, Okinawa, Japan.
2021 Daphne Cortese (Advisor: Suzie Mills), University of Paris, Paris, France.
2016 Faye Thompson (Advisor: Mike Cant), University of Exeter, Falmouth, UK.

Masters advisor / co-advisor

- 2015 – 2018 E. Schlatter (Advisor: Colleen Webb), Colorado State University, CO, USA.

Masters committee member

- 2010 – 2012 Nicole Rodstrom (Advisor: Robert Drew), UMass Dartmouth, MA, USA.

Masters external examiner

- 2022 Isla Hely (Advisor: Steve Simpson), University of Exeter, Exeter, UK.
2022 Samantha Pester (Advisor: James Dale), Massey University, Auckland, NZ.

Undergraduate mentor

- 2013 – 2015 Robin Francis (Volunteer), Department of Ecology and Evolution, UCSB, USA.
1997 Claire Norris (Volunteer), Department of Zoology, Oxford University, UK.
1996 Michael Black (Volunteer), Dept of Neurobiology & Behavior, Cornell University, USA.

High School Student mentoring

- 2025 Anika Jacob, Greater Boston Area Research Opportunities for Young Women
2025 Hannah Kim, Greater Boston Area Research Opportunities for Young Women
2024 Ashling Byrne, Greater Boston Area Research Opportunities for Young Women
2023 Beatrice Stefan, Greater Boston Area Research Opportunities for Young Women
2018 Workshop participant, Hyde Square Task Force, Looking Ahead Panel of Professionals.
2018 Thomas Grainger, Cambridge Rindge and Latin School
2016 Sydney Cicero, Cambridge Rindge and Latin School
2016 Alli Micozzi, Cambridge Rindge and Latin School
2015 Anastasia Carney, Cambridge Rindge and Latin School.
2014 – 2016 Jameelah Julien, Science Club For Girls.
2013 Gabriella Smith, Andover High School.
2012 – 2013 Josephine Eugene, Cambridge Rindge and Latin School.
2012 – 2013 Netaya Strothers, Science Club For Girls.
2012 – 2013 Zainab Salejwala, Science Club For Girls.