

CURRICULUM VITA

GEOFFREY C. TRUSSELL

Address: Marine Science Center Ph: 781-581-7370 (ext. 300)
Northeastern University Email: g.trussell@neu.edu
430 Nahant Road
Nahant, MA 01908

I. Education and Employment History

A. Education

- 1998 Ph.D. (Marine Science), Department of Biological Sciences, School of Marine Science, College of William & Mary, Gloucester Point, VA.
Thesis Advisor: Dr. Mark R. Patterson.
- 1993 M.Sc. (Zoology), University of New Hampshire.
Thesis Advisor: Dr. R. Randolph Olson
- 1990 A.B. (Biology/Environmental Studies), *Magna cum Laude* in Environmental Studies, Bowdoin College, Brunswick, Maine.
Thesis Advisors: Dr. Edward S. Gilfillan and Dr. Amy S. Johnson

B. Employment

- 2017-present Director, Coastal Sustainability Institute
- 2016-present Vice President of Nahant Campus Operations, Northeastern University.
- 2013-present Affiliated Faculty, Dept. of Civil and Environmental Engineering, Northeastern University.
- 2013-present Professor, Department of Marine & Environmental Sciences, Northeastern University.
- 2012-present Chair, Department of Marine & Environmental Sciences, Northeastern University.
- 2012-2014 Member, Council of Environmental Deans and Directors, National Council for Science and the Environment
- 2012-2017 Director, Urban Coastal Sustainability Initiative, Northeastern University.

- 2011-2012 Interim Chair, Department of Earth & Environmental Sciences, Northeastern University.
- 2009-present Director, Marine Science Center, Northeastern University.
- 2008-2013 Associate Professor, Department of Biology, Northeastern University.
- 2007-2009 Associate Director, Marine Science Center, Northeastern University.
- 2002-2008 Assistant Professor, Department of Biology, Northeastern University.
- 2002 Assistant Professor, Department of Biology, Holy Cross College.
- 2001 Visiting Assistant Professor, Marine Science Center, Northeastern University.
- 1998-2001 Mellon Postdoctoral Fellow, Program in Ecology and Evolutionary Biology, Brown University. Advisor: Dr. Mark D. Bertness.
- 1997-2001 Faculty, Three Seas Marine Biology Program (formerly East/West), Northeastern University, Course: Experimental Design in Marine Ecology.
- 1994-1996 Isles of Shoals Marine Laboratory, Cornell University, Summer Faculty Course: Adaptations of Marine Organisms.
- 1993 Teaching Assistant, Ecology, Department of Zoology, University of New Hampshire.
- 1993 Teaching Assistant, Human Anatomy and Physiology, Department of Zoology, University of New Hampshire.
- 1992 Teaching Assistant, Developmental Biology, Department of Zoology, University of New Hampshire.
- 1989 Teaching Assistant, Evolutionary Ecology, Department of Biology, Bowdoin College.

II. Scholarship and Research

A. Publications

§denotes postdoctoral co-author; †Indicates graduate student co-author; ††denotes undergraduate author; *denotes corresponding/senior author if not first or last author

As of April 2, 2019: ISI *Web of Science*: h-index = 29, total times cited = 3,164, average citations per year = 121.69, average citations per item = 50.22; *Google Scholar*: h-index = 34, total times cited = 4,432.

a. Refereed articles

67. †Donelan, S.C., **G.C. Trussell**. 2019. The effects of embryonic experience with predation risk vary across a wave exposure gradient. *Ecosphere* 10(4): e02676.
66. §Matassa, C.M., P.J. Ewanchuk, **G.C. Trussell**. 2018. Cascading effects of a top predator on intraspecific competition at intermediate and basal trophic levels. *Functional Ecology* 32:2241-2252. doi:10.1111/1365-2435.13131.
65. †Donelan, S.C., **G.C. Trussell**. 2018. Parental and embryonic experiences with predation risk affect the behavior and performance of their offspring. *Proc. Roy. Soc. B.* 20180034. doi:10.1098/rspb.2018.0034.
64. †Donelan, S.C., **G.C. Trussell**. 2018. Synergistic effects of parental and embryonic exposure to predation risk on offspring size at emergence. *Ecology* 99:68-78.
63. **Trussell, G.C.**, C.M. Matassa§, P.J. Ewanchuk. 2017. Moving beyond linear food chains: trait-mediated indirect interactions in a rocky intertidal food web. *Proc. Roy. Soc. B* 20162590. doi:10.1098/rspb.2016.2590.
62. Bracken, M.E.S., J.G. Douglass§, V. Perini†, **G.C. Trussell**. 2017. Environmental context and scale mediate the effects of biodiversity on marine primary producers. *Ecology* 98:1434-1443. doi:10.1002/ecy.1812.
61. †Donelan, S.C., J.H. Grabowski, **G.C. Trussell**. 2017. Refuge quality impacts the strength of nonconsumptive effects on prey. *Ecology* 98:403-411. doi:10.1002/ecy.1647.
60. Schmitz, O.J., **G.C. Trussell**. 2016. Connecting prey traits and adaptation to communities and ecosystems. *Current Opinion in Behavioral Science* 12:6-11. doi:10.1016/j.cobeha.2016.08.003.
59. †Matassa, C.M., S.C. Donelan†, B. Luttbeg, **G.C. Trussell**. 2016. Resource levels and prey body size influence antipredator behavior and the strength of nonconsumptive predator effects. *Oikos* 125:1478-1488. doi:10.1111/oik.03165
58. †Donelan, S.M., **G.C. Trussell**. 2015. Parental effects enhance risk tolerance and performance in offspring. *Ecology* 96:2049-2055.
57. †Matassa, C.M., **G.C. Trussell**. 2015. Effects of predation risk across a latitudinal temperature gradient. *Oecologia* 177:775-784. doi:10.1007/s00442-014-3156-7.
56. †Matzelle, A.J., G. Sara, V. Montalto, M. Zippay, **G.C. Trussell**, B. Helmuth. 2015. A bioenergetics framework for integrating the effects of multiple stressors: opening a 'black box' in climate change research. *American Malacological Bulletin* 33:1-11.

55. ††Chu, N.D., L.P. Miller[§], S.T. Kaluziak, **G.C. Trussell**, S.V. Vollmer. 2014. Thermal stress and predation risk trigger distinct transcriptomic responses in the intertidal snail, *Nucella lapillus*. *Molecular Ecology* 23:6104-6113. doi:10.1111/mec.12994.
54. †Matassa, C.M., **G.C. Trussell**. 2014. Prey state affects the ecological consequences of temporal variation in predation risk. *Proceedings of the Royal Society B* 281:1796 doi:10.1098/rspb.2014.1952.
53. [§]Miller, L.P., C.M. Matassa[†], **G.C. Trussell***. 2014. Climate change enhances the negative effects of predation risk on an intermediate consumer. *Global Change Biology* 20:3834-3844. doi:10.1111/gcb.12639.
52. †Bryson, E.S., **G.C. Trussell***, P.J. Ewanchuk[§]. 2014. Broad-scale geographic variation in the assembly of rocky intertidal communities in the Gulf of Maine. *Ecological Monographs* 84:579-597. **Cover article.**
51. ††Chu, N.D., S.T. Kaluziak, **G.C. Trussell**, S.V. Vollmer. 2014. Phylogenomic analyses reveal latitudinal population structure and polymorphism in heat stress genes in the North Atlantic snail *Nucella lapillus*. *Molecular Ecology* 23:1863-1873. doi:10.1111/mec.12681.
50. Silliman, B.R., M.W. McCoy, **G.C. Trussell**, C.M. Crain, P.J. Ewanchuk, M.D. Bertness. 2013. Non-linear interactions between consumers and flow determine the probability of plant community dominance on Maine rocky shores. *PLoS ONE* 8: e67625. doi:10.1371/journal.pone.0067625
49. [§]Long, J.D., L. Porturas, E. Jones, C. Kwan, **G.C. Trussell**. 2013. Seaweed traits linked to wave-exposure determine predator avoidance. *Marine Ecology Progress Series* 483:143-151.
48. Orrock, J.L., E.L. Preisser, J.H. Grabowski, **G.C. Trussell**. 2013. The cost of safety: refuges increase the impact of predation risk in aquatic systems. *Ecology* 94:573-579.
47. Luttbeg, B., **G.C. Trussell**. 2013. How the informational environment shapes the magnitudes of indirect effects and responses to environmental changes. *American Naturalist* 181:182-194.
46. Peacor, S.D., B.L. Peckarsky, **G.C. Trussell**, J.R. Vonesh. 2013. Costs of predator-induced phenotypic plasticity: A graphical model for predicting the contribution of nonconsumptive and consumptive effects of predators on prey. *Oecologia* 171:1-10.
45. Hammerschlag, N., **G.C. Trussell**. 2011. Beyond the body count: Fear of predators can affect ecosystem function. *Science* (published online, November 11, 2011; <http://www.sciencemag.org/content/333/6040/301/reply>).
44. †Matassa, C.M., **G.C. Trussell**. 2011. Landscape of fear influences the relative importance of consumptive and nonconsumptive predator effects. *Ecology* 92:2258-2266.

43. **Trussell, G.C.**, C.M. Matassa[†], B. Luttbeg. 2011. The effects of variable predation risk on foraging and growth: less risk is not necessarily better. *Ecology* 92:1799-1806.
42. Kishida, O., **G.C. Trussell**, A. Ohno, S. Kuwano, T. Ikawa, K. Nishimura. 2011. Predation risk suppresses the positive feedback between size structure and cannibalism. *Journal of Animal Ecology* 80:1278-1287. (doi: 10.1111/j1365-2656.2011.01871.x).
41. [†]Doellman, M.D., **G.C. Trussell**, J.W. Grahame, S.V. Vollmer. 2011. Phylogeographic analysis reveals a deep lineage split within North Atlantic *Littorina saxatilis*. *Proceedings of the Royal Society B* 278:3175-3183. (doi:10.1098/rspb.2011.0346).
40. Robinson, E.M., D.L. Smee, **G.C. Trussell**. 2011. Green crab (*Carcinus maenas*) foraging efficiency reduced by fast and turbulent flows. *PLoS ONE* 6(6): e21025. doi:10.1371/journal.pone.00021025.
39. Large, S.I., D.L. Smee, **G.C. Trussell**. 2011. Environmental conditions influence the frequency of prey responses to predation risk. *Marine Ecology Progress Series* 422:41-49.
38. Schmitz, O.J., D. Hawlena, **G.C. Trussell**. 2010. Predator control of ecosystem nutrient dynamics. *Ecology Letters* 13:1199-1209.
37. Kishida, O., **G.C. Trussell**, A. Mougi, K. Nishimura. 2010. Evolutionary ecology of inducible morphological plasticity in predator-prey interaction: toward the practical links with population ecology. *Population Ecology* 52:37-46.
36. Edgell, T.C.¹, B.R. Lynch, **G.C. Trussell**¹, A.R. Palmer. 2009. Experimental evidence for the rapid evolution of behavioral canalization in natural populations. *American Naturalist* 174: 434-440 (¹denotes equal contribution). **Featured as a Recommended [3.0] in Faculty of 1000.**
35. Kishida, O.[§], **G.C. Trussell***, K. Nishimura, T. Ohgushi. 2009. Inducible defenses in prey intensify predator cannibalism. *Ecology* 90:3150-3158.
34. Altieri, A.H.[§], **G.C. Trussell***, P.J. Ewanchuk[§], G. Bernatchez[†], M.E.S. Bracken. 2009. Consumers control diversity and functioning of a natural marine ecosystem. *PLoS ONE* 4(4): e5291. doi:10.1371/journal.pone.0005291. **Highlighted in a Nature "News Feature".**
33. Long, J.D.[§], **G.C. Trussell**, T. Elliman. 2009. Linking invasions and island biogeography: isolation and area effects on exotic and native plant diversity. *Ecology* 90:863-868. **Cover article.**
32. Kishida, O.[§], **G.C. Trussell**, K. Nishimura. 2009. Top down effects on antagonistic inducible defense and offense. *Ecology* 90:1217-1226.

31. Schmidt, P.S., E.A. Serrao, G.A. Pearson, C. Riginos, P.D. Rawson, T.J. Hilbish, S.H. Brawley, **G.C. Trussell**, E. Carrington, D.S. Wethey, J.W. Grahame, F. Bonhomme, D.M. Rand. 2008. Ecological genetics in the North Atlantic intertidal: environmental gradients and adaptation at specific loci. *Ecology* 89:s91-s107.
30. Phifer-Rixey, M., M. Heckman, **G.C. Trussell**, P.S. Schmidt. 2008. Maintenance of clinal variation for shell color phenotype in the flat periwinkle *Littorina obtusata*. *Journal of Evolutionary Biology*. 21:966-978
29. **Trussell, G.C.**, P.J. Ewanchuk[§], C.M. Matassa[†]. 2008. Resource identity modifies the influence of predation risk on ecosystem function. *Ecology* 89:2798-2807.
28. Peckarsky, B.L., P.A. Abrams, D. Bolnick, L.M. Dill, J.H. Grabowski, B. Luttbeg, J.L. Orrock, S.D. Peacor, E.L. Preisser, O.J. Schmitz, **G.C. Trussell**. 2008. Revisiting the classics: Considering non-consumptive effects in textbook examples of predator-prey interactions. *Ecology* 89:2416-2425 (after first author order is alphabetical).
27. Schmitz, O.J., J.H. Grabowski, B.L. Peckarsky, E.L. Preisser, **G.C. Trussell**, J.R. Vonesh. 2008. From individuals to ecosystem function: toward an integration of evolutionary and ecosystem ecology. *Ecology* 89:2436-2455 (after first author order is alphabetical).
26. Kishida, O.[§], **G.C. Trussell**, K. Nishimura. 2007. Geographic variation in a predator-induced defense and its genetic basis. *Ecology* 88:1948-1954. **Featured in ESA Bulletin.**
25. Long, J.D.[§], **G.C. Trussell**. 2007. Geographic variation in seaweed induced responses to herbivory. *Marine Ecology Progress Series* 333:75-80.
24. **Trussell, G.C.**, M.P. Lesser, M.R. Patterson, S.J. Genovese. 2006. Depth-specific differences in the growth of the sponge *Callyspongia vaginalis*: the role of bottom-up effects. *Marine Ecology Progress Series* 323:149-158.
23. **Trussell, G.C.**, P.J. Ewanchuk[§], C.M. Mattassa[†]. 2006a. The fear of being eaten reduces energy transfer in a simple food chain. *Ecology* 87:2979-2984.
22. **Trussell, G.C.**, P.J. Ewanchuk[§], C.M. Mattassa[†]. 2006b. Habitat effects on the relative importance of trait and density mediated indirect interactions. *Ecology Letters* 9:1245-1252. **Cover article.**
21. **Trussell, G.C.**, R.J. Etter. 2006. Flexibility is enough. *Natural History* 115:10-11 (correspondence).
20. **Trussell, G.C.**, P.J. Ewanchuk[§], M.D. Bertness, B.R. Silliman. 2004. Trophic cascades in rocky shore tide pools: distinguishing lethal and nonlethal effects. *Oecologia* 139:427-432.
19. Bertness, M.D., **G.C. Trussell**, P.J. Ewanchuk[§], B.R. Silliman. 2004a. Reply to Petraitis and Dudgeon. *Ecology* 85:1165-1167.

18. Bertness, M.D., **G.C. Trussell**, P.J. Ewanchuk[§], B.R. Silliman, C. Mullan. 2004b. Consumer controlled alternate community states on Gulf of Maine rocky shores. *Ecology* 85:1321-1331.
17. **Trussell, G.C.**, P.J. Ewanchuk[§], M.D. Bertness. 2003. Trait-mediated interactions in rocky intertidal food chains: predator risk cues alter prey feeding rates. *Ecology* 84:629-640.
16. **Trussell, G.C.** 2002. Evidence of countergradient variation in the growth of an intertidal snail in response to water velocity. *Marine Ecology Progress Series* 243:123-131.
15. Bertness, M.D., **G.C. Trussell**, P.E. Ewanchuk, B.R. Silliman. 2002. Do alternate stable states exist in the Gulf of Maine rocky intertidal zone? *Ecology* 83:3434-3448.
14. **Trussell, G.C.**, M.O. Nicklin[†]. 2002. Cue sensitivity, inducible defense, and trade-offs in a marine snail. *Ecology* 83:1635-1647.
13. **Trussell, G.C.**, P.J. Ewanchuk[§], M.D. Bertness. 2002. Field evidence of trait-mediated indirect effects in a rocky intertidal food web. *Ecology Letters* 5:241-245.
12. **Trussell, G.C.**, R.J. Etter. 2001. Integrating the genetic and environmental forces that shape the evolution of geographic variation in a marine snail. *Genetica* 112:321-337.
11. **Trussell, G.C.** 2000a. Phenotypic clines, plasticity, and morphological trade-offs in an intertidal snail. *Evolution* 54:151-166.
10. **Trussell, G.C.** 2000b. Predator-induced morphological trade-offs in latitudinally-separated populations of *Littorina obtusata*. *Evolutionary Ecology Research* 2:803-822.
9. **Trussell, G.C.**, L.D. Smith. 2000. Induced defenses in response to an invading crab predator: An explanation of historical and geographic phenotypic change. *Proceedings of the National Academy of Sciences USA* 97:2123-2127.
8. **Trussell, G.C.** 1997a. Phenotypic plasticity in the foot size of an intertidal snail. *Ecology* 78:1033-1048.
7. **Trussell, G.C.** 1997b. Phenotypic selection in an intertidal snail: The effects of a catastrophic storm. *Marine Ecology Progress Series* 151:73-79.
6. **Trussell, G.C.** 1996a. Phenotypic plasticity in an intertidal snail: The role of a common crab predator. *Evolution* 50:448-454.
5. **Trussell, G.C.** 1996b. The role of wave energy and crab predation as inducers of phenotypic plasticity in an intertidal snail. *Hawaiian Shell News* 44: p. 10.

4. Wheelwright, N.T., **G.C. Trussell**, J.P. Devine, R. Anderson. 1994. Sexual dimorphism and population sex ratios in juvenile Savannah Sparrows. *Journal of Field Ornithology* 65:520-529.
3. **Trussell, G.C.**, A.S. Johnson, S.G. Rudolph, E.S. Gilfillan. 1993. Resistance to dislodgement: Habitat and size-specific differences in morphology and tenacity in an intertidal snail. *Marine Ecology Progress Series* 100:135-144.
2. Gilfillan, E.S., D.S. Page, C.M. Kresja, S.H. Hanson, J.M. Foster, **G.C. Trussell**, B.J. Whalon. 1991. The use of ordination techniques to follow community succession from oil impact to recovery in the field. *Chemistry and Ecology* 5:85-97.
1. Gilfillan, E.S., D.S. Page, A. Bass, J. Foster, P. Fickett, W. Ellis, S. Rusk, C. Brown, **G.C. Trussell**, C. Kresja. 1989. Use of Na/K ratios in leaf tissues to determine effects of petroleum on osmoregulation in marine halophytes. *Marine Environmental Research* 28: 537. DOI:10.1016/0141-1136(89)90303-6.

b. Book chapters

4. Benedetti-Cecchi, L., **G.C. Trussell**. 2013. Intertidal rocky shores. Pages 203-225 in M.D. Bertness, J.F. Bruno, B.R. Silliman, J.J. Stachowicz (eds.), *Marine Community Ecology and Conservation*. Sinauer Associates, Sunderland, MA.
3. **Trussell, G.C.**, O.J. Schmitz. 2012. Species functional traits, trophic control, and the ecosystem consequences of adaptive foraging in the middle of food chains. Pages 718-755 in T. Ohgushi, O.J. Schmitz, R. Holt (eds.), *Ecology and Evolution of Trait-mediated Indirect Interactions: Linking Evolution, Communities and Ecosystems*. Cambridge University Press, Cambridge, UK.
2. **Trussell, G.C.**, P.J. Ewanchuk[§]. 2007. Predator avoidance. Pages 439-442 in M.W. Denny, S.D. Gaines (eds.), *Encyclopedia of Tidepools and Rocky Shores*, University of California Press. ([§]denotes postdoctoral fellow)
1. **Trussell, G.C.**, R.J. Etter. 2001. Integrating the genetic and environmental forces that shape the evolution of geographic variation in a marine snail. Pages 321-338 in A.P. Hendry, M.T. Kinnison, editors. *Microevolution: Rate, pattern, process*. Kluwer Academic Publishers, Dordrecht, The Netherlands (peer-reviewed book chapter).

III. Invited Seminars and Symposia

27. Special Seminar honoring Dr. Nathaniel T. Wheelwright, Department of Biology, Bowdoin College. 2018.
26. Seminar Series, Department of Ecology, Evolution and Behavior, Brown University. 2011.
25. Seminar Series, Friday Harbor Laboratory, University of Washington. 2008.
24. Seminar Series, Department of Biology, Wellesley College. 2006.
23. Seminar Series, Department of Biology, Bowdoin College. 2006.

22. Seminar Series, Hopkins Marine Station, Stanford University. 2006.
21. Seminar Series, Department of Biology, University of Rhode Island. 2006
20. Invited Speaker, The State of Marine Ecology in Maine Symposium, Center for Coastal Studies, Bowdoin College. “Fear and species interactions in simple rocky shore food chains”. 2006.
19. Invited Speaker, “How to succeed in ecology”, A Symposium held by the Ecological Society of America. 2005.
18. Invited speaker (Declined), “Littorinids: molluscan models for intertidal diversification and ecology”. Annual Littorinid Biology Meeting held at the University of Leeds, UK. 2005.
17. Invited Speaker, “From development to extinction: molluscan neontology and paleontology”. American Malacological Society and Western Society of Malacologists Symposium. 2005.
16. Distinguished Speaker, Department of Biology, California State University. 2005.
15. Seminar Series, School of Biology, Georgia Tech. 2005.
14. Seminar Series, Department of Biology, Boston University. 2005
13. Special Guest Speaker, John & Mary Louise Riley Seminar Series, University of California, Davis, Bodega Marine Laboratory, 2005.
12. Seminar Series, Department of Biology, University of Massachusetts – Boston. 2003.
11. Seminar Series, Department of Zoology, University of New Hampshire. 2003.
10. Seminar Series, Department of Biology, Northeastern University. 2002.
9. Seminar Series, Department of Biology, Holy Cross College. 2000.
8. Seminar Series, Woods Hole Oceanographic Institution. 2000.
7. Seminar Series, Department of Biology, Tufts University. 2000.
6. Seminar Series, Department of Biology, University of Rhode Island. 2000.
5. Seminar Series, Department of Biology, Tufts University. 1998.
4. Seminar Series, Department of Ecology, Evolution and Behavior, Brown University. 1998.
3. Seminar Series, Northeastern University Marine Science Center. 1997.

Pre-1995

2. Seminar Series, Northeastern University Marine Science Center.
1. Seminar Series, Department of Biology, Bowdoin College.

IV. Grants

- 2018-2021 NSF, Biological Oceanography Program. “RCN: Evolution in changing seas”. \$499,607. K. Lotterhos (PI), **G.C. Trussell** (Co-PI).
- 2017-2018 Massachusetts Office of Coastal Zone Management. Enhancement and stabilization of natural cobble shoreline at Canoe Beach, Northeastern University Marine Science Center, Nahant, MA. \$202,952. **G.C. Trussell** (PI), S. Scyphers (Co-PI), R. Hughes (Co-PI), J. Grabowski (Co-PI).
- 2017-2018 NSF, Division of Biological Infrastructure, Field Stations and Marine Labs, “Equipment to enhance ecological and evolutionary genomics research at the

- Marine Science Center”. \$241,006. **G.C. Trussell** (PI), J. Bowen (Co-PI), K. Lotterhos (Co-PI).
- 2017-2018 NSF, Biological Oceanography Program, REU Supplement for “Collaborative Research: Intertidal community assembly and dynamics: Integrating broad-scale regional variation in environmental forcing and benthic-pelagic coupling”. \$15,000. **G.C. Trussell** (PI).
- 2015-2019 NSF, Integrative Organismal Systems Program, “Collaborative Research: Using an energetics framework to forecast the interactive effects of abiotic and biotic stressors on intertidal mussels”. \$575,704. B. Helmuth (PI) & **G.C. Trussell** (Co-PI), M. Zippay (Co-PI, Sonoma State University). Northeastern share of the award = \$399,508
- 2015-2018 NSF, Biological Oceanography Program. “Collaborative Research: Intertidal community assembly and dynamics: Integrating broad-scale regional variation in environmental forcing and benthic-pelagic coupling”. \$1,665,791. **G.C. Trussell** (PI) & T. Gouhier (Co-PI), R.J. Etter (Co-PI, UMass Boston), P.O. Yund (Co-PI, Downeast Institute), H. XuE (Co-PI, U. Maine). Northeastern share of award = \$715,201.
- 2014-2015 Nantucket Land Council, “Effects of *Lyngbya* sp. on bay scallop and eelgrass ecology in Nantucket Harbor”. \$26,552.91. R. Hughes (PI), J. Grabowski & **G.C. Trussell** (Co-PIs).
- 2013-2014 Nantucket Shellfish Association and Nantucket Land Council, “Examining if predators and habitat complexity influence bay scallop population dynamics in Nantucket Harbor”. \$18,558. J.H. Grabowski (PI) & **G.C. Trussell** (Co-PI).
- 2011-2013 NSF, Integrative Organismal Systems, Behavioral Systems Cluster, “Dissertation Research: Ecological context shapes how consumers respond to predation risk”. \$10,848. **G.C. Trussell** (PI), C. M. Matassa (Co-PI).
- 2010-2011 NSF, Biological Oceanography Program. “REU Supplement for Collaborative Research: Factors affecting the nature and strength of indirect effects: A modeling and empirical approach”. \$10,045. **G.C. Trussell** (Sole PI).
- 2010-2014 NSF, Office of Integrative Activities. “Modernization and enhancement of the seawater system and research infrastructure at Northeastern University’s Marine Science Center”. \$1,768,555. **G.C. Trussell** (PI), J. Ayers, M.E.S. Bracken, S. Vollmer (Co-PIs). Trussell wrote the entire proposal except the research descriptions for MSC PIs and did all prep work with architects and engineers. Trussell, in conjunction with Ed Duffy (Northeastern Project Manager) and Ryan Hill (MSC Lab Manager), were responsible for overseeing all aspects of this project from design to construction.

- 2010-2014 NSF, Biological Oceanography Program. "Context-dependency of marine biodiversity-ecosystem function relationships". \$399,823. M.E.S. Bracken (PI), **G.C. Trussell** (Co-PI).
- 2008-2011 NSF, Biological Oceanography Program. "Furoid inducible defenses: the causes and consequences of intraspecific variation". \$279,843. J.D. Long (PI), **G.C. Trussell** (Co-PI).
- 2007-2013 NSF, Biological Oceanography Program. "Collaborative Research: Factors affecting the nature and strength of indirect effects: A modeling and empirical approach." **G.C. Trussell** (PI) (\$262,755), B.T. Luttbeg (PI), UC Davis, (\$186,999).
- 2007-2009 National Park Service, Development of a rocky intertidal monitoring protocol for Acadia NP (ME) and Boston Harbor Islands NPA (MA), J.D. Long (PI), **G.C. Trussell** (Co-PI), \$159,902.
- 2007-2010 NSF, Biological Oceanography Program. "Collaborative Research: The effects of flow on the nature and strength of indirect effects". **G.C. Trussell** (PI) (\$222,985) & D. Smee (PI), Texas A&M, Corpus Christi, (\$216,070), Collaborative PIs.
- 2005 NSF, Biological Oceanography Program. "REU Supplement for Density vs. trait-mediated interactions between predators and prey: Their influence on rocky shore algal diversity and community structure". \$7,353. **G.C. Trussell** (Sole PI).
- 2005 National Parks Ecological Research Fellowship Program. "Induced plant responses to herbivory: seaweed-herbivore interactions in Acadia National Park". \$120,000. J.D. Long (PI), **G.C. Trussell** (Co-PI).
- 2003-2007 NSF, Biological Oceanography Program. "Density vs. trait-mediated interactions between predators and prey: Their influence on rocky shore algal diversity and community structure". \$297,568. **G.C. Trussell** (sole PI).
- 2002 Charles & Rosanna Batchelor (Ford) Foundation Grant, Holy Cross, \$3,200 (declined).
- 2002 Research and Publication Award, Holy Cross, \$1,300 (declined).
- 1999-2002 NSF, Integrative Biology and Neurophysiology Program, Panel on Ecological and Evolutionary Physiology. "The influence of water temperature and predator-induced defensive responses on life-history trade-offs in a marine intertidal snail". \$185,939. **G.C. Trussell** (PI), L.D. Smith (Co-PI).
- 1997-1999 NOAA National Undersea Research Center - University of North Carolina, Wilmington. "Habitat-specific Differences in Sponge Growth: The Role of Scope for Growth and Phenotypic Plasticity". \$16,506 (science support) and \$126,068

(total systems support) plus 20 days Aquarius Habitat time and 32 days of day boat Nitrox SCUBA support each year for 3 years. **G.C. Trussell**, M.R. Patterson (Co-PIs).

- 1998 VIMS Research Grant, School of Marine Science, William and Mary, \$500.
- 1994-1996 NSF, Dissertation Improvement Grant, Division of Environmental Biology, Panel on Population Biology. “Genetic and environmental influences on shell and foot form in an intertidal snail”, \$9,000. **G.C. Trussell**, M.R. Patterson (Co-PIs).

V. Postdoctoral and Ph.D. Students

a. Postdoctoral Students

- 2017-2018 Dr. Sarah C. Donelan, PhD (Northeastern University, Advisor: Dr. Geoffrey C. Trussell). Now a Postdoc at Smithsonian Environmental Research Center.
- 2014-2017 Dr. Catherine Matassa, PhD (Northeastern University, Advisor: Dr. Geoffrey C. Trussell). Now Assistant Professor at University of Connecticut.
- 2012-2013 Dr. Rob Haney, PhD (Brown University, Advisor: Dr. David Rand).
- 2008-2011 Dr. Luke Miller, PhD (Stanford University, Advisor: Dr. Mark Denny). Now an Assistant Professor at San Jose State University.
- 2008-2009 Dr. Osamu Kishida, PhD (Hokkaido University, Advisor: Dr. Kinya Nishimura). Now a Professor at Hokkaido University’s Field Center for Northern Biosphere.
- 2006-2007 Dr. Andrew Altieri, PhD (Brown University, Advisor: Dr. Mark Bertness). Now an Associate Professor at the University of Florida.
- 2004-2009 Dr. Jeremy Long, PhD (Georgia Tech, Advisor: Dr. Mark Hay), ESA/National Parks Research Fellow. Now an Associate Professor in the Department of Biology at San Diego State University.
- 2002-2004 Dr. Patrick J. Ewanchuk, PhD (Brown University, Advisor: Dr. Mark Bertness). Now an Associate Professor in the Department of Biology at Providence College.

b. Ph.D. students

Dr. Sarah Donelan (Ph.D. 2017). Dissertation, Department of Marine and Environmental Sciences, Northeastern University: “Examining predation risk across generations and

habitats: parental, embryonic, and refuge effects on the response of prey to predators”.
NSF Graduate Research Fellowship, Honorable Mention.

Dr. Kate McClure (Ph.D. 2017). Dissertation: “Geographic variation in the morphology, diet, and performance of an intertidal snail”. *NSF Graduate Research Fellowship.*

Dr. Catherine Matassa (Ph.D. 2014). Dissertation, Department of Marine and Environmental Sciences, Northeastern University: “Ecological context shapes the response of consumers to predation risk”. *NSF Doctoral Dissertation Improvement Grant; Northeastern University Outstanding Graduate Student Teaching Award (2011); Northeastern University Outstanding Graduate Student Research Award (2013); Northeastern University Dissertation Completion Fellowship (2014).*

Dr. Elizabeth Bryson (Ph.D. 2014). Dissertation, Department of Marine and Environmental Sciences, Northeastern University: “Causes and consequences of broad-scale geographic variation in Gulf of Maine rocky intertidal communities”.