

CURRICULUM VITA

GEOFFREY C. TRUSSELL

Address: Marine Science Center
Northeastern University
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Born: March 5, 1968; Baltimore, Maryland

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.

ACADEMIC POSITIONS

- 2009-present Director, Marine Science Center, Northeastern University, Nahant, MA.
- 2008-present Associate Professor, Department of Biology, Northeastern University, Boston, MA.
- 2007-present Associate Director, Marine Science Center, Northeastern University, Nahant, MA.
- 2002-2008 Assistant Professor, Department of Biology, Northeastern University, Boston, MA.
- 2002 Assistant Professor, Department of Biology, Holy Cross College, Worcester, MA.
- 2001 Visiting Assistant Professor, Marine Science Center, Northeastern University, Nahant, MA 01908.

- 1998-2001 Mellon Postdoctoral Fellow, Program in Ecology and Evolutionary Biology, Brown University. Advisor: Dr. Mark D. Bertness.
- 1997-present Faculty, East/West Marine Biology Program, 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.

PUBLICATIONS

- (39) Large, S.I., D.L. Smee, **G.C. Trussell**. *In review*. Environmental context influences responses to predation risk. *Marine Ecology Progress Series*.
- (38) 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.
- (37) 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*.
- (36) Kishida, O., **G.C. Trussell***, K. Nishimura, T. Ohgushi. 2009. Predator-induced changes in prey morphology intensify predator cannibalism. *Ecology* 90: 3150-3158. (*denotes corresponding author).
- (35) Altieri, A.H., **G.C. Trussell***, P.J. Ewanchuk, G. Bernatchez, M.E.S. Bracken. 2009. Consumer effects on diversity indirectly influence marine ecosystem functioning. *PLoS ONE* 4(4): e5291. doi:10.1371/journal.pone.0005291. (*denotes corresponding author).

- (34) 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).
- (33) Kishida, O., **G.C. Trussell**, K. Nishimura. 2009. Top down effects on antagonistic inducible defense and offense. *Ecology* 90: 1217-1226.
- (32) 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.
- (31) Phifer-Rixey, M., M. Heckman, **G.C. Trussell**, P.S. Schmidt. 2008. Temperature mediated selection on shell color phenotype in the flat periwinkle *Littorina obtusata*. *Journal of Evolutionary Biology*. 21: 966-978
- (30) 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.
- (29) 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. Rewriting the textbooks: Considering non-consumptive effects in classic studies of predator-prey interactions. *Ecology* 89: 2416-2425 (after first author order is alphabetical).
- (28) 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).
- (27) Trussell, G.C., P.J. Ewanchuk. 2007. Predator avoidance. Pages 439-442 in M.W. Denny, S.D. Gaines, editors, *Encyclopedia of Tidepools and Rocky Shores*, University of California Press (book chapter).
- (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 *Callispongia 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. Pages 321-338 in A.P. Hendry, M.T. Kinnsion, editors. *Microevolution: Rate, pattern, process*. Kluwer Academic Publishers, Dordrecht, The Netherlands (peer-reviewed book chapter).
- (11) 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.
- (10) Trussell, G.C. 2000a. Phenotypic clines, plasticity, and morphological trade-offs in an intertidal snail. *Evolution* 54: 151-166.

- (9) Trussell, G.C. 2000b. Predator-induced morphological trade-offs in latitudinally-separated populations of *Littorina obtusata*. *Evolutionary Ecology Research* 2: 803-822.
- (8) 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.
- (7) Trussell, G.C. 1997a. Phenotypic plasticity in the foot size of an intertidal snail. *Ecology* 78: 1033-1048.
- (6) Trussell, G.C. 1997b. Phenotypic selection in an intertidal snail: The effects of a catastrophic storm. *Marine Ecology Progress Series* 151: 73-79.
- (5) Trussell, G.C. 1996a. Phenotypic plasticity in an intertidal snail: The role of a common crab predator. *Evolution* 50: 448-454.
- (4) 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.
- (3) 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.
- (2) 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.
- (1) 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.

RESEARCH GRANTS

External

- 2010-2011 NSF, Office of Integrative Activities. “Modernization and enhancement of the seawater system and research infrastructure at Northeastern University’s Marine Science Center”. \$1,999,720. G.C. Trussell (PI), J. Ayers, M.E.S. Bracken, S. Vollmer (Co-PIs).
- 2010-2013 NSF, Biological Oceanography Panel. “Context-dependency of marine biodiversity-ecosystem function relationships”. \$399,823. M.E.S. Bracken, G.C. Trussell (Co-PIs).

- 2008-2011 NSF, Biological Oceanography Panel “Furoid inducible defenses: the causes and consequences of intraspecific variation”. \$279,843. J.D. Long, G.C. Trussell (Co-PIs).
- 2007-2011 NSF, Biological Oceanography Panel, “Collaborative Research: Factors affecting the relative importance of trait and density-mediated indirect interactions in a rocky shore food chain.” G.C. Trussell (\$262,755), B.T. Luttbeg, UC Davis, (\$186,999), Collaborative PIs.
- 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 Panel, “Collaborative Research: The effects of flow on the nature and strength of indirect effects”. G.C. Trussell (\$222,985) & D. Smee, Texas A&M, Corpus Christi, (\$216,070), Collaborative PIs.
- 2005 NSF, Biological Oceanography Panel. “REU Supplement for Density vs. trait-mediated interactions between predators and prey: Their influence on rocky shore algal diversity and community structure”. \$7,353. 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 (CoPI).
- 2003-2007 NSF, Biological Oceanography. "Density vs. trait-mediated interactions between predators and prey: Their influence on rocky shore algal diversity and community structure". \$304,921. 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, 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, L.D. Smith (Co-PIs).
- 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).
- 1995 Ecological Society of America Travel Award, Aquatic Ecology Section.
- 1993 VIMS Research Grant, School of Marine Science, William and Mary, \$675.
- '91, '92, '95 Lerner-Gray Fund, the American Museum of Natural History, \$900, \$490, \$600.
- 1991 & 1993 Grant-in-aid of Research from Sigma Xi, the Scientific Research Society, \$300, \$500.
- 1991 & 1992 Center for Marine Biology Research Grant, University of New Hampshire, \$1,500, \$600.
- 1991 & 1992 Center for Marine Biology Travel Grant, University of New Hampshire, \$550.
- 1990 Central University Research Fund Grant, University of New Hampshire, \$975.

Internal

- 2005 Faculty Undergraduate Research Initiative Fellowship (Summer and Fall).
- 2003 "Is ecosystem function on rocky intertidal shores influenced by species diversity, consumers, and thermal stress?" Provost Research and Scholarship Grant, Northeastern University. \$4,700. G.C. Trussell (Sole PI).

FELLOWSHIPS, SCHOLARSHIPS AND AWARDS

- 2007 Ray Lankester Investigatorship, Marine Biological Association of the United Kingdom, \$15,000.
- 2006 Sigma Delta Tau Outstanding Professor, Northeastern University.
- 1998-2001 Mellon Foundation Postdoctoral Fellowship, Department of Ecology and Evolutionary Biology, Brown University.
- 1998 Inducted as Full Member of Sigma Xi, Northeastern University Chapter.
- 1993-1996 School of Marine Science Fellowship, tuition/stipend, William and Mary.

- 1993 Excellence in Graduate Student Research Award, University of New Hampshire.
- 1992 Teaching Assistant Research Fellowship, University of New Hampshire, \$2,100 for M.Sc. research.
- '91, '92, '95 The Hawaiian Malacological Society Scholarship, Honolulu, Hawaii, \$400, \$700, \$300 awards for M.Sc. and Ph.D. research.
- 1992 Agricultural Research Station Fellowship, tuition/stipend, University of New Hampshire.
- 1990-1991 AFAIR Laboratory Research Assistantship, tuition/stipend, University of New Hampshire.
- 1989 & 1990 Bowdoin Scientific Research Station Fellowship, Kent Island, N.B., Canada, \$1,000 each year.
- 1989 SURDNA Foundation Undergraduate Research Fellowship, Bowdoin College, \$1,800 for Honors Thesis research.
- 1988 Bethel Point Marine Station Fellowship, Bowdoin College, \$1,800 for research.

PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

National Meetings

2010

Bernachez, G., **G.C. Trussell**. Non-consumptive effects of an invasive predator on macroinfaunal functional feeding groups in a New England salt marsh. Marine Benthic Ecology Meetings, Wilmington, NC.

Bryson, E.S., **G.C. Trussell**. Latitudinal variation in size-dependent patch recovery: the importance of *Ascophyllum* canopy characteristics and light penetration. Marine Benthic Ecology Meetings, Wilmington, NC.

Matassa, C.M., **G.C. Trussell**. Prey state and resource levels influence the strength of non-consumptive predator effects in a rocky intertidal food chain. Marine Benthic Ecology Meetings, Wilmington, NC.

2008

Bernatchez, G., **G.C. Trussell**. Trait-mediated effects of an invasive predator on macroinfaunal feeding groups in a New England mud flat. Marine Benthic Ecology Meetings, Providence, RI.

Bryson, E.S., **G.C. Trussell**, P.J. Ewanchuk. Latitudinal variation in furoid recovery: the effects of herbivory and disturbance size on Gulf of Maine rocky shores. Marine Benthic Ecology Meetings, Providence, RI.

Long, J., G. Toth, H. Pavia, **G.C. Trussell**. Bearing arms: trade-offs in seaweed defense strategies. Marine Benthic Ecology Meetings, Providence, RI.

Matassa, C.M., **G.C. Trussell**. Too hot to eat? Effects of thermal stress on an intertidal predator-prey interaction. Marine Benthic Ecology Meetings, Providence, RI.

Dwyer, T.R., **G.C. Trussell**. Integrating the role of chemically and mechanically-induced defenses in a marine snail. Marine Benthic Ecology Meetings, Providence, RI.

2007

Grahame, J.W., **G.C. Trussell**. Shore crabs, snails, and “serial speciation”. European Society of Evolutionary Biology, Uppsala, Sweden.

Trussell, G.C., P.J. Ewanchuk, C.M. Matassa. Resource identity affects the nature and strength of indirect effects on energy flow. Marine Benthic Ecology Meetings, Atlanta, Georgia.

Bernatchez, G., **G.C. Trussell**. The non-consumptive effects of an invasive predator on macroinfaunal diversity and abundance in a New England mudflat. Marine Benthic Ecology Meetings, Atlanta, Georgia.

Bryson, E.S., **G.C. Trussell**. Latitudinal variation in rocky intertidal succession patterns: furoid recovery and the role of barnacle recruitment. Marine Benthic Ecology Meetings, Atlanta, Georgia.

Doellman, M.M., **G.C. Trussell**. The interaction between conspecific density and non-lethal predator effects on the foraging behavior of *Nucella lapillus*. Marine Benthic Ecology Meetings, Atlanta, Georgia.

Matassa, C.M., **G.C. Trussell**, P.J. Ewanchuk. Mapping fear: Predator risk cues alter spatial patterns in the foraging behavior of *Nucella lapillus*. Marine Benthic Ecology Meetings, Atlanta, Georgia.

2006

Trussell, G.C. Resources, refugia, and the relative importance of trait and density-mediated indirect interactions. Ecological Society of America Annual Meeting, Memphis, Tennessee.

Trussell, G.C., P.J. Ewanchuk. Trait-mediated effects, per-capita consumption rates, and conversion efficiency in a rocky shore food chain. Marine Benthic Ecology Meetings, Quebec City, Quebec.

Bryson, E.S., **G.C. Trussell**. Latitudinal variation and the role of temperature on Gulf of Maine rocky intertidal succession. Marine Benthic Ecology Meetings, Quebec City, Quebec.

Phifer-Rixey, M., M.L. Heckman, **G.C. Trussell**, P.S. Schmidt. Are thermal gradients driving clinal variation in shell color frequencies in *L. obtusata*? Marine Benthic Ecology Meetings, Quebec City, Quebec.

Phifer-Rixey, M., M.L. Heckman, **G.C. Trussell**, P.S. Schmidt. Are thermal gradients driving clinal variation in shell color frequencies in *L. obtusata*? Evolution Meetings, Stony Brook, New York.

2005

Trussell, G.C., P.J. Ewanchuk. The relative importance of density and trait-mediated effects in a rocky intertidal food chain. Marine Benthic Ecology Meetings, Williamsburg, Virginia.

Long, J.D., **G.C. Trussell**. Seaweeds tell no lies: testing for a chemically-mediated cascade. Marine Benthic Ecology Meetings, Williamsburg, Virginia.

Ewanchuk, P.J., **G.C. Trussell**. The effects of prey and resource density on the importance of trait-mediated indirect interactions in the rocky intertidal. Marine Benthic Ecology Meetings, Williamsburg, Virginia.

Bernatchez, G., **G.C. Trussell**. The effects of the invasive Japanese shore Crab (*Hemigrapsus sanguineus*) on benthic macrofaunal communities in a southern salt marsh. Marine Benthic Ecology Meetings, Williamsburg, Virginia.

2004

Trussell, G.C., P.J. Ewanchuk, M.D. Bertness, B.R. Silliman. Trophic cascades in rocky shore tide pools: distinguishing lethal and nonlethal effects. Marine benthic Ecology Meetings, Mobile, Alabama (unable to deliver due to death in family).

2003

Trussell, G.C., P.J. Ewanchuk. Facilitation of herbivorous snail grazing by a carnivorous snail is altered by non-lethal predator effects. Marine Benthic Ecology Meeting, Mystic, Connecticut.

Ewanchuk, P.J., **G.C. Trussell**, M.D. Bertness. Trait-mediated indirect interactions in a rocky intertidal food web. Marine Benthic Ecology Meeting, Mystic, Connecticut.

Mullan, C.P., M.D. Bertness, **G.C. Trussell**, P.J. Ewanchuk, B.R. Silliman. Alternate stable states in the Gulf of Maine? Marine Benthic Ecology Meeting, Mystic, Connecticut.

Silliman, B.R., M.D. Bertness, C.P. Mullan, **G.C. Trussell**, P.J. Ewanchuk. Species-specific and density-dependent consumer effects on community development on Gulf of Maine rocky shores. Marine Benthic Ecology Meeting, Mystic, Connecticut.

2001

Trussell, G.C. Inducible defense in a marine snail: Cue sensitivity and the scaling of trade-offs. Marine Benthic Ecology Meetings, Durham, NH.

2000

Trussell, G.C., L.D. Smith. Inducible defenses as an explanation of historical and geographic phenotypic change. Marine Benthic Ecology Meetings, Wilmington, NC.

1991-1999

Trussell, G.C., L.D. Smith. Morphological plasticity and trade-offs in response to an invading crab predator. Evolution Meetings, Madison, Wisconsin.

Trussell, G.C. Morphological variation in an intertidal snail: The role of phenotypic plasticity. Bowdoin College Science Colloquium, Bowdoin College, Brunswick, Maine.

Trussell, G.C. Phenotypic plasticity in an intertidal snail: The effects of geography and growth. Marine Benthic Ecology Meetings, Portland, Maine.

Trussell, G.C. Phenotypic plasticity in an intertidal snail: The role of a common crab predator. Ecological Society of America, Snowbird, Utah.

Trussell, G.C. Phenotypic plasticity in an intertidal snail: The role of a common crab predator. Marine Benthic Ecology Meetings, Mystic, Connecticut.

Trussell, G.C. Phenotypic plasticity in an intertidal snail revealed by flume experiments. Marine Benthic Ecology Meetings, Mobile, Alabama.

Trussell, G.C. A catastrophic storm and phenotypic selection in an intertidal snail. Marine Benthic Ecology Meetings, Newport, Rhode Island.

Trussell, G.C. Biomechanics of an intertidal snail: higher tenacity on a protected shore? Marine Benthic Ecology Meetings, Williamsburg, Virginia.

International Meetings

Trussell, G.C., S.J. Jenkins, P.J. Ewanchuk. 2004. Ecosystem functioning in rocky shore tide pools. 3rd Annual CORONA Meeting, Marine Biological Association of the UK, Plymouth, UK.

INVITED SEMINARS AND SYMPOSIA

2008

Friday Harbor Laboratory, University of Washington

2006

Wellesley College, Department of Biology.

Bowdoin College, Department of Biology.

Stanford University, Hopkins Marine Station.

University of Rhode Island, Department of Biology.

The State of Marine Ecology in Maine Symposium, Center for Coastal Studies, Bowdoin College. "Fear and species interactions in simple rocky shore food chains". Invited Speaker.

2005

"How to succeed in ecology", A Symposium held by the Ecological Society of America. Invited participant.

"Littorinids: molluscan models for intertidal diversification and ecology". Annual Littorinid Biology Meeting held at the University of Leeds, UK. Invited speaker (Declined).

"From development to extinction: molluscan neontology and paleontology". American Malacological Society and Western Society of Malacologists Symposium. Invited speaker.

California State University Distinguished Speaker, Department of Biology.

Georgia Tech, School of Biology.

Boston University, Department of Biology.

University of California, Davis, Bodega Marine Laboratory, John & Mary Louise Riley Seminar Series, Guest Speaker.

2003

University of Massachusetts – Boston.
University of New Hampshire.

2002

Northeastern University.
2000

Holy Cross College.
Woods Hole Oceanographic Institution.
Tufts University.
University of Rhode Island.

1998

Tufts University.
Brown University.

1997

Northeastern University.

1995 and earlier

Northeastern University Marine Science Center.
Bowdoin College.

TEACHING AND ADVISING

Courses

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|-------------|---|
| 2007 (Fall) | <i>Ecology</i> , 64 students <i>Experimental Marine Ecology</i> , part of Three Seas Marine Biology Program, 24 students |
| 2006 (Fall) | <i>Ecology</i> , 80 students <i>Experimental Marine Ecology</i> , part of Three Seas Marine Biology Program, 12 students |
| 2005 (Fall) | <i>Ecology</i> , 79 students <i>Experimental Design in Marine Ecology</i> , part of Three Seas Marine Biology Program, 22 students |

- 2004 (Fall) *Ecology*, 50 students.
Experimental Design in Marine Ecology, Three Seas Marine Biology Program (formerly East/West Marine Biology Program), 9 students.
- 2004 (Spring) *Ecology*, 18 students.
- 2003 (Spring) *Experimental Design in Marine Ecology*, part of E/W Marine Biology Program, 7 students, received extra compensation.
- 2003 (Fall) *Experimental Design in Marine Ecology*, part of E/W Marine Biology Program, 5 students.

Postdoctoral Students

- 2008-present Dr. Luke Miller, PhD (Stanford University, Advisor: Dr. Mark Denny).
- 2008-2009 Dr. Osamu Kishida, PhD (Hokkaido University, Advisor: Dr. Kinya Nishimura).
- 2006-2007 Dr. Andrew Altieri, PhD (Brown University, Advisor: Dr. Mark Bertness).
Now a Postdoctoral Fellow in the Department of Ecology and Evolutionary Biology at Brown University.
- 2004-2009 Dr. Jeremy Long, PhD (Georgia Tech, Advisor: Dr. Mark Hay),
ESA/National Parks Research Fellow.
- 2002-2004 Dr. Patrick J. Ewanchuk, PhD (Brown University, Advisor: Dr. Mark Bertness).
Now an Assistant Professor in the Department of Biology at Providence College.

Current and Past Graduate Students

- Ms. Kate McClure (Advisor, PhD candidate since Fall 2009).
Ms. Catherine Matassa (Advisor, PhD candidate since Fall 2006).
Ms. Genevieve Bernatchez (Advisor, PhD candidate since Fall 2003, *NERRS Fellowship*).
Ms. Elizabeth Bryson (Advisor, PhD candidate since Fall 2005).
Ms. Meredith Doellman (Advisor, PhD candidate since Fall 2008, *NSF Graduate Fellowship*).
- Mr. Timothy Dwyer (Advisor, MSc 2009).

Committee Member

- Mr. David Combash (PhD Candidate, Committee Member).
Ms. Elizabeht Hammond (PhD Candidate, Committee Member).

Ms. Silvia Libro (PhD Candidate, Committee Member).
Ms. Tammy Hartke-Quiett (PhD Candidate, Committee Member).
Mr. Sean Kent (PhD Candidate, Committee Member).
Mr. Christopher McHan (MSc Candidate, Committee Member).
Ms. Danielle Bulgier (MSc Candidate, Committee Member).

Ms. Meghann Murray (MSc, 2008, Committee Member).
Ms. Dominica Nichols (PhD, 2007, Committee Member).
Ms. Christine Vacarro (MSc, 2007, Committee Member).
Mr. Brad Agius (MSc 2003, Committee Member).

Undergraduate and Postgraduate Students

Mr. Nels Carson (Boston University, Undergraduate Research Assistant, Summer 2009).
Ms. Sarah Donelan (Wesleyan University, Undergraduate Research Assistant, Summer 2009).
Ms. Tania Eskin (Cornell University, Postgraduate Research Assistant, Summer 2009).
Ms. Abby Dobbs (Northeastern University, Undergraduate Research Assistant, Summer 2007).
Ms. Rene Dolecal (Northeastern University, Undergraduate Research Assistant, Summer 2007, Technician, Summers of 2008 and 2009).
Ms. Nicole MacRae (Northeastern University, MSC Coop, Spring 2005).
Ms. Maggie Hunter (Northeastern University, MSC Coop, Summer 2004, NSF REU student Summer 2005).

External Student Committees

Mr. Aaren Freeman (PhD, 2007, University of New Hampshire, Committee Member).
Mr. Blaine Griffen (PhD, 2007, University of New Hampshire, Committee Member).

SERVICE and PROFESSIONAL DEVELOPMENT

Departmental

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| 2009-2010 | Executive Committee, Department of Biology (elected). |
| 2008-2009 | Chair, Biology Department Chair Search Committee, New Search (elected). |
| 2007-2008 | Biology Department Chair Search Committee (elected). |
| 2005-2006 | Co-Chair, Marine Biology Faculty Search Committee. |
| 2005-present | Professional Masters in Marine Science Program, Committee Member. |
| 2004-present | Site Coordinator, Three Seas Program, Department of Biology. |

- 2004-present Member, Graduate Committee, Department of Biology.
- 2004-present Member, Admissions Committee, Department of Biology.
- 2003-present Academic Advising of Biology Majors, Department of Biology.
- 2003 Coordinator, Three Seas Marine Biology Program Seminar Series.
- 2003-present MSC Liaison, Department of Biology, Northeastern University.
- 2002-present Riser Lecture Coordinator, Marine Science Center.
- 2002-present Member, Admissions Committee, Three Seas Marine Biology Program.
- 2002-present Member, Advisory Board, Three Seas Marine Biology Program.
- 2002-present Member, Advisory Board, Marine Science Center.

College/University

- 2005 Fundraising, Touch tank improvements for the Outreach Program. This collaborative effort led to a \$2,500 award from Bingham McCutchen LLP.
- 2004 Fundraising, "MYSIS" K-12 Science Camp held at the Marine Science Center. This collaborative effort led to a \$200,000 award from the Fleet Charitable Foundation.
- 2004 Fundraising Effort for Bowdoin Scientific Research Station on Kent Island. This collaborative effort led to the raising of funds in excess of \$50,000.
- 2003-present "A New Marine Science Center", a collaborative effort between the MSC, the Office of Corporate Foundation and Giving, and the Office of the President.

Community/Public

- 2009-present Board Member, "Hooked on Science", a private-public venture to enhance science education in the Concord-Carlisle public high school.
- 2002-present "Marine Critters": Outreach to Concord, MA Public Schools and the Fenn School.

Disciplinary

National Meetings

- 2006 Marine Benthic Ecology Meeting, Chairperson, Community Ecology Session.
- 2006 Ecological Society of America Meeting, Co-Organizer (with E. Preisser, E. Werner) of Organized Oral Session: “Does Fear Matter? A road map to the implications of trait-mediated effects to ecology”.
- 2005 Marine Benthic Ecology Meeting, Chairperson, 2 Community Organization Sessions.
- 2004 Marine Benthic Ecology Meeting, Co-Organizer (with J. Bruno) of E/W Marine Biology Symposium.
- 2003 Marine Benthic Ecology Meeting, Chairperson, Predator Session.
- 2000 Marine Benthic Ecology Meeting, Chairperson, Predator-Prey Session.
- 1994 Marine Benthic Ecology Meeting, Chairperson, Interspecific Interactions Session.
- 1993 Marine Benthic Ecology Meetings, Chairperson, Evolution Session.
- 1992 Marine Benthic Ecology Meetings, Chairperson, Abiotic Processes Session.

International Meetings

- 2003 Group Leader, Ecology Planning Group, 2nd Annual CORONA Meeting, Reykjavik, Iceland.
- 2002 Discussion Leader, Ecology Group, 1st Annual CORONA Meeting, Isle of Shoals Marine Laboratory, NH.
- 2001-2005 Member, Steering Committee, NSF Research Network – CORONA (Coordinated Research on the North Atlantic).

Editorial Boards

- 2007-present Editorial Board, *Oecologia*
2008-present Editorial Board, *PLoS ONE*

Review Panels

- 2005 Member, New Hampshire Sea Grant Panel.
- 2003 Member, National Science Foundation, Biological Oceanography Panel.

2003 Member, Maine Sea Grant Panel.

Working Groups

2005 Member, Census of Marine Life, Gulf of Maine Working Group.

2005-present Member, “When, and how much, does fear matter? Quantitatively assessing the impact of predator intimidation of prey on community dynamics”. Working Group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.

Manuscript and Grant Reviewing

Journals and Textbook Publishers (100+ papers since 2002).

American Naturalist, Biological Journal of the Linnean Society, Biology Letters (Royal Society of London), Blackwell Publishers (textbooks), Bulletin of Marine Science, Canadian Journal of Zoology, Ecology, Ecology Letters, Evolution, Evolutionary Ecology Research, Functional Ecology, Genetica, Journal of Animal Ecology, Journal of Ethology, Journal of Experimental Biology, Journal of Experimental Marine Biology and Ecology, Journal of Experimental Biology, Journal of Functional Ecology, Journal of the Marine Biological Association (UK), Journal of Molluscan Studies, Limnology & Oceanography, Marine Ecology Progress Series, Oecologia (Editorial Board Member), Palaios, PLoS ONE (Editorial Board Member), Proceedings of the Royal Society, Proceedings of the National Academy of Sciences (USA), Veliger.

Grant Agencies (28 proposals since 2002, not including those for reviewed as a Member of the NSF Biological Oceanography Panel and the Maine and New Hampshire Sea Grant Panels).

Israeli National Science Foundation, National Environmental Research Council (UK), National Geographic Society, National Science Foundation, National Sciences and Engineering Research Council (Canada), NOW Council for Earth and Life Sciences (Netherlands) SeaGrant (Maryland, New Hampshire, Maine).

Professional Societies

American Association for the Advancement of Science, American Society of Naturalists, Ecological Society of America, Sigma Xi, Society for the Study of Evolution, Marine Biological Association of the UK