

Blaine D. Griffen

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Education:

2007 Ph.D., University of New Hampshire, Zoology, James Byers
2002 M.S., Oregon State University, Marine Resource Management, Chris
Langdon
1998 B.S., Brigham Young University, Zoology

Fellowships/Awards/Honors:

Dissertation Fellowship, University of New Hampshire, 2006
Summer TA Fellowship, University of New Hampshire, 2006
Outstanding Research Award, Graduate Student Organization, University of New Hampshire, 2004
Markham Award, Hatfield Marine Science Center, Oregon State University, 2001
Markham Award, Hatfield Marine Science Center, Oregon State University, 2000
National Network for Environmental Management Studies Fellowship, Environmental Protection
Agency, 1999
Markham Award, Hatfield Marine Science Center, Oregon State University, 1999
Laurel Scholarship, Oregon State University, 1999
John Einer Anderson Scholarship, Brigham Young University, 1997-1998
Dean's List, Brigham Young University, Spring 1996

Professional Experience:

Postdoctoral Researcher at the Institute of Ecology, University of Georgia, in the lab of Dr. John Drake. Examining extinction dynamics in experimental zooplankton populations. Feb 2007-Current.

Program Coordinator for larval monitoring to develop environmental indicator for early detection of invasive species in Great Bay National Estuarine Reserve, New Hampshire. Project funded by New Hampshire Estuaries Project, NH Dept. of Environmental Services. January 2005-June 2006.

Faculty Advisor for Research Experience for Undergraduates (REU) program at the Shoals Marine Laboratory (Cornell University and the University of New Hampshire). Directed student research on behavioral interactions between foraging crabs. Isles of Shoals, June-August 2004, 2005, 2006.

Research Technician, Great Bay Larval Monitoring Program, New Hampshire. Worked with New Hampshire Fish and Game to develop and implement a pilot larval monitoring program to determine the feasibility of adding a biological component to the nation-wide System Wide Monitoring Program within National Estuarine Research Reserves. July 2002-2004.

Volunteer Researcher, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory. Conducted research on environmental impacts of bioengineering species of burrowing shrimp. Corvallis, Oregon, 2000-2002.

Environmental Protection Agency National Network for Environmental Management Studies Fellow, Developed and administered research examining the impacts of a dominant bioengineering species in Pacific Northwest estuaries. 1999-2000.

Research Assistant with Dr. Andrew Carrey, Oregon State University. Prepared marine invertebrate specimens for L.A. Museum of Natural History. Corvallis, Oregon, 1999.

Research Assistant with Dr. Lee Braithwaite, Brigham Young University. Processed benthic infaunal samples, identified and preserved specimens. Provo, Utah, 1998.

Head Aquarist, Brigham Young University. Procured animals for, and maintained university marine aquaria display. Provo, Utah, 1996-1998.

Zoology Department Shop Assistant, Brigham Young University. Designed and constructed equipment for use in departmental research. Provo, Utah, 1996-1997.

Teaching Experience:

Course Instructor for marine invertebrate zoology, Three Seas Program (formerly East-West Program). Northeastern University, Fall 2004, 2005.

Guest Lecturer for general ecology course. Taught population growth, population modeling, and predator-prey interactions. University of New Hampshire, February 2005.

Laboratory Instructor for various courses at The University of New Hampshire. Lectured, directed research projects, administered and graded exams and quizzes. Durham, New Hampshire.
Courses: General Ecology (2003, 2004, 2006)
Marine Ecology (2002, 2004)
Marine Biology (2003, 2005)

Course Instructor for biological portion of undergraduate oceanography course, Oregon State University. Corvallis, Oregon, 2001.

Laboratory Instructor, animal diversity course, Brigham Young University. Instructed in dissections, administered and graded quizzes, graded examinations and research papers. Provo, Utah, 1998.

Teaching Assistant, Brigham Young University marine biology group, Hopkins Marine Station. Lectured on various invertebrate species, directed students in dissections and research projects, and led field trips. Monterey, California, 1997.

Publications:

Griffen BD, Byers JE (2006) Intraguild predation reduces redundancy of predator species in multiple predator assemblage. *Journal of Animal Ecology* 75:959-966

Griffen BD (2006) Detecting emergent effects of multiple predator species. *Oecologia In press*

Griffen BD, Byers JE (2006) Partitioning mechanisms of predator interference in different habitats. *Oecologia* 146:608-614. (Errata: *Oecologia* 147:181)

Griffen BD, DeWitt TH, Langdon C (2004) Particle removal rates by the mud shrimp *Upogebia pugettensis*, its burrow, and a commensal clam: effects on estuarine phytoplankton abundance. *Marine Ecology Progress Series*. 269:223-236.

DeWitt TH, D'Andrea AF, Brown CA, Griffen BD, and Eldridge PM (2004) Impact of burrowing shrimp populations on nitrogen cycling and water quality in Western North American temperate estuaries. In: Tamaki A (ed.), *Proceedings of the Symposium on Ecology of Large Bioturbators in Tidal Flats and Shallow Sublittoral Sediments –from Individual Behavior to Their Role as Ecosystem Engineers*. University of Nagasaki, Japan. pp. 107-118.

Manuscripts in Review:

Griffen BD, Williamson, T (*In Review at Oecologia*) Influence of predator density on nonindependent effects of multiple predator species

Griffen BD, Delaney DG (*In Review at Ecology*) Field experiment demonstrates opposite ends of the prey dependent – ratio dependent continuum for two invasive predators: potential explanation for different species abundances

Griffen BD, Guy T, Julia Buck (*In Review at Journal of Animal Ecology*) Inhibition between invasives: a newly introduced predator moderates the impacts of a previously established invasive predator

Technical Reports and Other:

Griffen BD (2006) Pictorial key of invertebrates recruiting into the Great Bay, NH.

Byers JE and Griffen BD (2006) Spatial Patterns of Marine Larvae as Indicators of Incipient Invasions in Great Bay, NH. Final report for 2005-2006 cooperative project proposal to NH state sponsor: NH Estuaries Project.

Byers JE and Griffen BD (2004) Larval Monitoring in Great Bay: System Wide Monitoring Program Larval Sampling in Great Bay, NH. Final report for 2003-2004 cooperative project proposal to NH state sponsor: NH Fish and Game.

Presentations and Invited Lectures:

Consequences of replacing one invasive crab with another on New England shores. Benthic Ecology Meeting, Atlanta, Georgia, March 2007.

Interactions between foraging *Carcinus maenas* and *Hemigrapsus sanguineus*. Research Experience for Undergraduates (REU) orientation seminar, Isle of Shoals, June 2006.

Could the introduced predator *Hemigrapsus sanguineus* actually increase survival of mussel prey? Graduate Student Research Seminar, University of New Hampshire, Durham, NH, April 2006.
Awarded 2nd place for best talk

Could the introduced predator *Hemigrapsus sanguineus* actually increase survival of mussel prey? Benthic Ecology Meeting, Quebec, Canada, March 2006.

European green crab (*Carcinus maenas*) eats less and changes its diet in the presence of the Asian shore crab (*Hemigrapsus sanguineus*). Benthic Ecology Meeting, Quebec, Canada, March 2006.
Awarded 2nd place for best poster.

Detecting patterns in nonadditive effects of multiple predators. Benthic Ecology Meeting, Williamsburg, Virginia, April 2005

Interference between two invasive predatory crabs. Research Experience for Undergraduates (REU) orientation seminar, Isle of Shoals, June 2004.

Does trophic structure influence the importance of predator species richness? Graduate Student Research Seminar, University of New Hampshire, Durham, New Hampshire, April 2004.
Awarded outstanding research award.

Substitutable effects of *Carcinus maenas* and *Hemigrapsus sanguineus* foraging on amphipod prey. Benthic Ecology Meeting, Mobile, Alabama, March 2004.

Multiple predator effects and substitutability between *Carcinus maenas* and *Hemigrapsus sanguineus*. East/West Science-in-the-Summer Seminar Series. Invited Speaker. Northeastern University, Nahant, Massachusetts, August 2003.

Feeding rates of the mud shrimp *Upogebia pugettensis* and implications for estuarine phytoplankton abundance. Aquatic Sciences Meeting of the American Society of Limnology and Oceanography, Albuquerque, New Mexico, February 2001.

Interactions between burrowing shrimp and commercially grown oysters: competition for food. Research Awards Symposium, Hatfield Marine Science Center, Newport, OR, May 2000.

Grants and Fellowships

National Network for Environmental Management Studies Fellowship United States Environmental Protection Agency	\$30,000
NH Estuaries Project, NH Dept. of Environmental Services	\$29,000
Dissertation Fellowship, UNH	\$14,200
Markham Award, Markham Foundation	\$9,872
Markham Award, Markham Foundation	\$9,432
Markham Award, Markham Foundation	\$6,951
Summer TA Fellowship, UNH	\$3,000
Conference scholarship, State of the Oceans, Vancouver	\$500
Center for Marine Biology, UNH	\$477
Center for Marine Biology, UNH	\$275
Travel Awards, Center for Marine Biology, UNH	\$233
	\$363
	\$333
Travel Awards, Graduate School, UNH	\$200
	\$200
	\$200
Travel Awards, Zoology Dept., UNH	\$200
	\$150
	\$150

Other Conference/Workshop Participation:

Benthic Ecology Meeting, Connecticut, March 2003
Ascidian Biology Workshop, Boston, Massachusetts, October 2002
Pacific Estuarine Research Society, Newport, Oregon, 2000
State of the Oceans, Vancouver, BC 1999
Society for Conservation Biology, Victoria, British Columbia 1997

Service Activities:

Reviewer for *Ecology*, *Northeastern Naturalist*, *Journal of Experimental Biology*

Marine biology presentation at Hilltop and Maplewood Elementary Schools, Somersworth, NH, May 2005, 2006

Skills and Other:

Member of Ecological Society of America

Certified (PADI) SCUBA diver

Proficient in Spanish

Discovered new species of parasitic bopyrid isopod that was subsequently named in my honor
(*Orthione griffenis* [Marham, 2004])