

**Blaine D. Griffen**

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**Education**

## UNIVERSITY OF NEW HAMPSHIRE

Doctor of Philosophy in Zoology, May 2007

Advisor: Dr. James Byers

Interactions between two invasive crab predators, *Carcinus maenas* and *Hemigrapsus sanguineus*, and consequences for the native community

## OREGON STATE UNIVERSITY

Master of Science in Marine Resource Management, May 2002

Advisor: Chris Langdon

Feeding rate of the mud shrimp *Upogebia pugettensis* and implications for estuarine phytoplankton abundance

## BRIGHAM YOUNG UNIVERSITY

Bachelor of Science in Zoology, August 1998

**Funding Awards**

Population extinction in deteriorating environments

University of Georgia Research Foundation Grant, 2007 \$7,010

Impacts of invasive predatory crabs on New England intertidal community:

Dissertation Fellowship, UNH, 2006 \$14,200

Summer TA Fellowship, UNH, 2006 \$3,000

Center for Marine Biology Research Grant, UNH, 2004 \$275

Center for Marine Biology Research Grant, UNH, 2003 \$477

Spatial patterns of marine larvae as indicator of incipient invasions in Great Bay, NH:

New Hampshire Estuaries Project Research Grant, NH Dept. of Env. Services, 2005 \$29,000

Foraging ecology of a bioengineering species of burrowing shrimp in Pacific estuaries:

National Network for Environmental Management Studies Fellowship, US EPA, 1999 \$30,000

Markham Research Grant, Markham Foundation, OSU, 1999 \$9,872

Markham Research Grant, Markham Foundation, OSU, 2000 \$9,432

Markham Research Grant, Markham Foundation, OSU, 2001 \$6,951

**Publications**

\*coauthors are undergraduate students that I advised in REU projects

**Peer-reviewed:**

\*Griffen BD, Williamson, T (2008) Influence of predator density on nonindependent effects of multiple predator species. *Oecologia* 155:151-159

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\*Griffen BD, Guy T, Julia Buck (2008) Inhibition between invasives: a newly introduced predator moderates the impacts of a previously established invasive predator. *Journal of Animal Ecology* 77:32-40

*Featured in ScienceNow at: <http://sciencenow.sciencemag.org/cgi/content/full/2007/1016/1>*

Griffen BD, Delaney DG (2007) Species invasion shifts the importance of predator dependence. *Ecology* 88:3012-3021

Griffen BD (2006) Detecting emergent effects of multiple predator species. *Oecologia* 148:702-709

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

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.

**Submitted:**

Griffen BD, Drake JM (*Journal of Animal Ecology*) Extinction in experimental populations

Griffen BD, Byers JE (*Oikos*) Community impacts of two invasive crabs: the roles of density, prey recruitment, and indirect effects

**Conference Proceedings and Technical Reports:**

Griffen BD (2006) Pictorial key of invertebrates recruiting into the Great Bay, NH. Component of final report for 2005-6 cooperative project proposal to NH state sponsor: NH Estuaries Project.

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.

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.

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.

**Professional Experience**

Postdoctoral Researcher, Odum School of Ecology, University of Georgia, Mentor: Dr. John Drake. Population extinction and metapopulation dynamics using experimental zooplankton populations and population viability analysis. Also, scaling effects of parasites from influence on individual host physiology to host population regulation. Feb 2007-Current.

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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.

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.

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

**Teaching Experience**

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

**Course Instructor:** Biological portion of undergraduate oceanography course, Oregon State University, 2001.

**Faculty Advisor:** Research Experience for Undergraduates (REU) program at the Shoals Marine Laboratory (Cornell University and the University of New Hampshire), Isles of Shoals, 2004, 2005, 2006.

Students: Tucker Williamson (2004)  
Travis Guy (2005)  
Julia Buck (2006)

Guest Lecturer: Population ecology. Topics: individual variation, interspecific competition. University of Georgia, 2007.

Guest Lecturer: General ecology. Topics: population growth, population modeling, and predator-prey interactions. University of New Hampshire, 2005.

Guest Lecturer: Marine biology. Topics: Overview of major invertebrate phyla. University of New Hampshire, 2004.

Laboratory Instructor: University of New Hampshire  
General Ecology (2003, 2004, 2006)  
Marine Ecology (2002, 2004)  
Marine Biology (2003, 2005)

Brigham Young University  
Vert/Invert Strategies (1998)  
Marine Ecology (1997, at Stanford's Hopkins Marine Station).

**Blaine D. Griffen****Invited Talks**

Penn State Abington 2008 Population regulation: the importance of individual behavior.

University of South Carolina 2008 From individual behavior to population patterns: understanding invasions from the bottom up.

Ecological Society of America 2007 Organized Oral Session (The behavior of invasions: is there a path from mechanism to prediction?) Talk: Behavioral differences underlie different community impacts of two similar marine invaders.

Northeastern University 2003. East-West Science in the Summer seminar series. Talk: Multiple Predator Effects and Substitutability between *Carcinus maenas* and *Hemigrapsus sanguineus*.

University of New Hampshire 2002. Feeding rates of the mud shrimp *Upogebia pugettensis* and implications for estuarine phytoplankton abundance.

**Professional Service**

Peer reviewer for *Ecology* (2), *Ethology*, *Journal of Experimental Biology*, *ICES Journal of Marine Science*, *Journal of Animal Ecology* (2), *Marine Biology*, *Northeastern Naturalist*, *Oecologia*, *Oikos*, *Transactions of the American Fisheries Society*

Session Chair, Benthic Ecology Meeting 2007, Atlanta, GA, Session: Predator-prey interactions

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

**Awards**

Excellence in Research Award, Zoology Department, University of New Hampshire, 2007

2<sup>nd</sup> Place Best Talk Award, Graduate Research Seminar, University of New Hampshire, 2006

2<sup>nd</sup> Place Best Poster Award, Benthic Ecology Meeting, Quebec, Canada, 2006

Outstanding Research Award, Graduate Student Organization, University of New Hampshire, 2004

Laurel Scholarship, Oregon State University, 1999

John Einer Anderson Scholarship, Brigham Young University, 1997-1998

Dean's List, Brigham Young University, Spring 1996