

Jonathan Douglas Allen

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Professional Preparation

Bates College. 1994-1998.
B.S. Biology. 1998.
University of North Carolina at Chapel Hill. 1998-2005.
Ph.D. Biology. 2005.
Advisor: Dr. Robert D. Podolsky
Bowdoin College. 2005-Present.
Doherty Marine Biology Postdoctoral Scholar

External Scholarships, Fellowships, and Honors

Student Travel Award. National Science Foundation/SICB. January, 2005. \$500
Kohn Fellowship. University of Washington. February, 2004. \$2030
Doctoral Dissertation Improvement Grant. National Science Foundation. July, 2003. \$7612
Grant-in-Aid of Research. Society for Integrative and Comparative Biology. January, 2003. \$452
Kohn Fellowship. University of Washington. May, 2002. \$3000
Friday Harbor Course Fellowship. University of Washington. May, 2002. \$1791
PADI Foundation Grant. May, 2001. \$3999
Friday Harbor Research Fellowship. University of Washington. July, 2000. \$1050
Grant-in-Aid of Research. Sigma Xi. May, 2000. \$800
Graduate Research Fellowship Honorable Mention. National Science Foundation. 1999

Institutional Scholarships, Fellowships, and Honors

Coastal Studies Symposium Fund. Bowdoin College. May 2007. \$4500
Phocas Family Award. Bowdoin College. March, 2007. \$7000
Rusack Coastal Studies Award. Bowdoin College. March, 2006. \$1800
Coastal Studies Symposium Fund. Bowdoin College. February, 2006. \$2850
Course Enrichment Grant. Bowdoin College. October, 2005. \$450
Dissertation Completion Fellowship. UNC Graduate School. August, 2004. \$15000
Graduate Mentor Support Grant. UNC Office of Undergraduate Research. June, 2003. \$1000
Intellectual Life Grant. UNC Office of Distinguished Scholarships. January, 2003. \$300
Intellectual Life Grant. UNC Office of Distinguished Scholarships. September, 2002. \$625
Intellectual Life Grant. UNC Office of Distinguished Scholarships. September, 2000. \$625
H.V. Wilson Scholarship. UNC Department of Biology. May, 2000, 2001, 2002, 2004. \$400/yr.
Merit Assistantship. UNC Graduate School. August, 1998. \$10500

Teaching Appointments

Bowdoin College:
Instructor, Dept. of Biology, *Evolution in America*, Spring 2007.
Instructor, Dept. of Biology, *Marine Larval Ecology*. Spring 2006.

University of Washington:

Teaching Assistant, Friday Harbor Laboratories, *Marine Invertebrate Zoology*.
Summer 2004.

University of North Carolina at Chapel Hill:

Teaching Assistant, Dept. of Biology, *Human Anatomy and Physiology*. 2003 - 2004.

Teaching Assistant, Dept. of Marine Sciences, *Marine Biology*. Fall 2002.

Teaching Assistant, Dept. of Biology, *Introductory Biology*. Fall 2001.

Teaching Assistant, Dept. of Biology, *Biology of the Invertebrates*. Spring 2000, 2001,
2003.

Invited Course Lectures

Biological Principles, Bowdoin College, Spring, 2007.

Marine Biology, University of New England, Fall 2006.

Biology of Marine Organisms, Bowdoin College, Fall 2006.

Coastal Marine Life, Bowdoin College, Fall 2005.

Biology of Marine Organisms, Bowdoin College, Fall 2005.

Community and Ecosystem Ecology, Bowdoin College, Fall 2005.

Marine Invertebrate Biology, UNC. Spring 2005.

Marine Invertebrate Zoology, University of Washington. Summer 2004.

Biology of the Invertebrates, UNC. Spring 2000, 2001, 2003.

Marine Biology, UNC. Fall 2002.

Invited Seminars and Public Lectures

Bowdoin College Faculty Seminar Series, Brunswick, ME, Winter 2007.

University of New England, Biddeford, ME, Fall 2006.

Cornerstones of Science Program, Curtis Memorial Library, Brunswick, ME, Fall 2006.

University of Southern Maine, Portland, ME, Spring 2006.

Bigelow Laboratory for Ocean Science, West Boothbay Harbor, ME, Fall 2005.

University of South Carolina, Columbia, SC, Fall 2005.

Bull City Divers, Durham, NC, Summer 2005.

Friday Harbor Laboratories, University of Washington, Friday Harbor, WA, Summer 2004.

Evolution and Development Group, Duke University, Durham, NC Spring 2002.

Research Appointments

Independent Investigator, Friday Harbor Laboratories, University of Washington. Summer, 1999 –
2002, 2004.

Research Assistant and Independent Investigator, Lizard Island Research Station. Australian
Museum. Winter, 1999-2003.

National Science Foundation-Research Experiences for Undergraduates. Research Assistant,
Dr. Neil Landman, American Museum of Natural History. Summer, 1997.

Professional Societies

American Society of Naturalists; Ecological Society of America: Sigma Xi; Society for
Integrative and Comparative Biology; Society for the Study of Evolution

Professional Meetings Attended with Published Abstracts * indicates undergraduate coauthor

7th Larval Biology Meeting. August, 2006.

Allen, J.D. Effects of egg size reductions on development time and juvenile size in
four species of echinoid echinoderms.

- 12th International Echinoderm Conference. August, 2006.
Allen, J.D., and R.D. Podolsky. Uncommon diversity in developmental mode and larval form in the genus *Macrophiothrix*.
 Benthic Ecology Meeting. March, 2006.
Allen, J.D. and J.S. McAlister. Measuring planktonic and benthic predation rates on marine invertebrate larvae in the field.
 Society for Integrative and Comparative Biology. January, 2006.
Allen, J.D. and J.S. McAlister. 2006. Testing rates of planktonic versus benthic predation in the field. *Integrative and Comparative Biology*. 45 (6): 956.
 Society for Integrative and Comparative Biology. January, 2005.
Allen, J.D., C. Zakas*, and R.D. Podolsky. 2005. Testing the consequences of an egg size reduction for a species with facultatively feeding larvae. *Integrative and Comparative Biology*. 44 (6): 514.
 Podolsky, R.D. and **J.D. Allen**. 2005. Egg size and the evolutionary transition to non-feeding development in *Macrophiothrix* brittlestars. *Integrative and Comparative Biology*. 44 (6): 623.
 Society for Integrative and Comparative Biology. January, 2004.
Allen, J.D. 2004. Is bigger better? Testing the consequences of changes in egg size on larval predation rates. *Integrative and Comparative Biology*. 43(6): 1081.
 North American Echinoderm Conference. August, 2001.
Allen, J.D. 2001. Testing the costs of small egg size in echinoderms. *Gulf of Mexico Science*. 19(2): 177-178.
 Society for Integrative and Comparative Biology. January, 1999.
Allen, J.D. 1999. The effects of egg size on predation rates of sand dollar, *Dendraster excentricus*, larvae. *American Zoologist*. 39(5): 30A.

Peer-Reviewed Publications

* indicates undergraduate coauthor

- Allen, J.D.**, C. Zakas* and R.D. Podolsky. 2006. Effects of egg size reduction and larval feeding on juvenile quality for a species with facultative-feeding development. *Journal of Experimental Marine Biology and Ecology*. 331(2): 186-197.
Allen, J.D. and R.D. Podolsky. 2007. Uncommon diversity in developmental mode and larval form in *Macrophiothrix*. *Marine Biology*. 151(1): 85-97.
 Moran, A.L. and **J.D. Allen**. 2007. How does metabolic rate scale with egg size? An experimental test with sea urchin embryos. *Biological Bulletin*. 212:143-150.
Allen, J.D. and J.S. McAlister. 2007. Testing rates of planktonic versus benthic predation in the field. *Journal of Experimental Marine Biology and Ecology*. 347 (1-2): 77-87.
Allen, J.D. Accepted pending minor revision. Size-specific predation on marine invertebrate larvae. *Biological Bulletin*.
Allen, J.D. and B. Pernet. Accepted pending minor revision. Intermediate modes of larval development: bridging the gap between planktotrophy and lecithotrophy. *Evolution and Development*.

Manuscripts in preparation

- Allen, J.D.** Effects of egg size reductions on development time and juvenile size in three species of echinoid echinoderms (In preparation for *American Naturalist*).
Allen, J.D. and E. Robinson*. Planktonic predation on embryos of three common marine invertebrates (In preparation for *Marine Ecology Progress Series*).
 Podolsky, R.D. and **J.D. Allen**. Egg size, larval form, and the evolutionary transition to non-feeding development in *Macrophiothrix*. (In preparation for *Evolution*).

Leadership and Mentorship Activities

- Supervising summer research experiences for one laboratory instructor and three undergraduate Biology majors at Bowdoin College. Summer 2007.
- Outside examiner for two biology honors theses at Bates College. Spring 2007.
- Supervised independent study (Biology 401) in marine ecology for one undergraduate Biology major at Bowdoin College. Fall 2006/Spring 2007.
- Contributed a chapter on Life-History Analyses for a forthcoming ecology textbook (*Ecology* by Cain, Bowman, and Hacker. Sinauer Associates). Summer 2006.
- Supervised summer research experiences for two undergraduate Biology majors at Bowdoin College. Summer 2006. An interview about these research experiences can be found at: <http://www.bowdoin.edu/news/archives/summerresearch/003303.shtml>
- Organized and obtained funding for the symposium, *The State of Marine Ecology in Maine* at Bowdoin, with invited talks from 17 PI's from 10 institutions. Spring 2006. Website: <http://academic.bowdoin.edu/biology/symposia/marine-ecology-maine/>
- Co-chair of Larval Ecology session at annual meeting of Society for Integrative and Comparative Biology. Winter 2006.
- Reviewer for *Evolution and Development*, *Invertebrate Biology* and *Marine Biology*.
- Graduate Student Representative with full voting privileges on UNC Dept. of Biology Faculty Search Committee. Spring 2005.
- Future Faculty Program, UNC. Completed a five day workshop on effective teaching methods and balancing teaching and research. Spring 2004.
- Mentored four undergraduate Biology majors and one high-school student at UNC, including supervision of an undergraduate honors thesis in 2003-2004.
- Organized and obtained funding for joint UNC/Duke Symposium for Biology graduate students. Spring 2001.
- Organized graduate student research seminar at UNC. Spring 2000.
- Supervised 12 undergraduate and graduate research assistants while working at Lizard Island Research Station. 1999-2003.