

JOHN D. PARKER, PH.D.

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PROFESSIONAL PREPARATION

University of Virginia, B.A., *Environmental Science*, 1993
College of William and Mary/Virginia Institute of Marine Science, M.S., *Marine Science*, 1998
Georgia Institute of Technology, Ph.D., *Biology*, 2005

APPOINTMENTS

2007-present *Ecologist, Senior Scientist*, Smithsonian Environmental Research Center
2006-2007 *Postdoctoral Associate*, Dept. Ecology & Evolutionary Biology, Cornell University
2001-2005 *IGERT Fellow*, National Science Foundation IGERT Program in Aquatic Chemical Signaling, Georgia Institute of Technology
2000-2001 *Teaching Assistant*, Georgia Institute of Technology
1998-2000 *Biological Technician*, National Oceanic and Atmospheric Administration
1995-1998 *Research Assistant/Fellow*, College of William and Mary/Virginia Institute of Marine Science
1993-1995 *Environmental Scientist*, Apex Environmental, Inc.

RESEARCH INTERESTS

Invasive, nuisance, and endangered species in aquatic, marine, and terrestrial systems; Global change; Biodiversity and ecosystem function; Community ecology; Consumer-prey interactions; Chemical ecology

PUBLICATIONS

Parker JD, JP Montoya, ME Hay. (in press) A specialist detritivore links *Spartina alterniflora* to salt marsh food webs. **Marine Ecology Progress Series**
Parker JD, DE Burkepile, D Collins, J Kubanek, ME Hay. (2007) Stream mosses as chemically defended refugia for freshwater macroinvertebrates. *Oikos* 116:302-312
Parker JD, CC Caudill, ME Hay. (2007) Beaver herbivory on aquatic plants. *Oecologia* 151:616-625
Parker JD, DE Burkepile, ME Hay. (2006) Opposing effects of native and exotic herbivores on plant invasions. *Science* 311:1459-1461
Parker JD, DE Burkepile, ME Hay. (2006) Response to Comment on "Opposing effects of native and exotic herbivores on plant invasions". *Science* 313:298b
DE Burkepile, Parker JD, CB Woodson, HJ Mills, J Kubanek, PA Sobecky, and ME Hay. (2006) Chemically-mediated competition between microbes and animals: microbes as consumers in food webs. *Ecology* 87:2821-2831
Parker JD, D Collins, J Kubanek, C Sullards, D Bostwick, ME Hay. (2006) Chemical defense promotes persistence of the aquatic plant *Micranthemum umbrosum*. *Journal of Chemical Ecology* 32:815-833

- Parker JD, ME Hay. 2005. Biotic resistance to plant invasions? Native herbivores prefer non-native plants. *Ecology Letters* 8:959-967
- Hay ME, JD Parker, DE Burkepile, CC Caudill, AE Wilson, ZP Hallinan, AD Chequer. 2004. Mutualisms and aquatic community structure: the enemy of my enemy is my friend. *Annual Review of Ecology, Evolution, and Systematics* 35:175-197
- Parker JD, JE Duffy, RJ Orth. 2001. Plant species diversity and composition: experimental effects on marine epifaunal assemblages. *Marine Ecology Progress Series* 224:55-67
- Duffy JE, KS Macdonald, JM Rhode, JD Parker. 2001. Grazer diversity, functional redundancy, and productivity in seagrass beds: an experimental test. *Ecology* 82:2417-2434

HONORS

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| 2004 | Mid-South Aquatic Plant Management Society Scholarship (\$1600) |
| 2004-2005 | Georgia Tech Mini-grants (\$2000) |
| 2003 | National Park Service: An Inventory of Aquatic Plants in the Chattahoochee River National Recreation Area, Georgia, USA (\$10,000) |
| 2001-2005 | National Science Foundation, Integrative Graduate Education and Research Traineeship (IGERT) (\$69,000) |
| 2000-2004 | Harry and Linda Teasley Fellowship in Chemical Ecology, Georgia Institute of Technology (\$45,000) |
| 1997 | Research Mini-grant (\$400), Virginia Institute of Marine Science |
| 1996-1998 | Fellowship for Academic Excellence, College of William and Mary/Virginia Institute of Marine Science (50% stipend coverage, ~\$25,000) |
| 1993 | Dean's List, University of Virginia |

SYNERGISTIC ACTIVITIES

- Faculty dissertation opponent - Johan Stenberg, Umeå University, Sweden (2008)
- Co-organizer – 2007 Ecological Society of America Symposium: “The Yin and Yang of ecology: understanding the combined influences of positive and negative interactions for the function and restoration of ecological communities”
- Participant and Group Leader – “Global Invasive Species Network”, NSF Research Coordination Network on Invasive Species (2006 to present)
- Peer reviewer – *Ecology Letters*, *Ecology*, *Ecological Applications*, *Frontiers in Ecology and the Environment*, National Science Foundation, *Biological Invasions*, *Marine Ecology Progress Series*, *Diversity and Distributions*, *Marine Ecology*, *Aquatic Botany*, *Plant Ecology*, *International Journal of Plant Sciences*, *Ecological Research*, *Scientia Marina*
- Chairperson - 2005 Georgia Tech IGERT seminar series in Aquatic Chemical Ecology
- Co-organizer – 2004 *Inaugural Southeastern Ecology & Evolution Conference*
- Session moderator – 2004 *Inaugural Southeastern Ecology & Evolution Conference*, 2002 31st *Marine Benthic Ecology Meeting*
- Student representative – Georgia Tech School of Biology job search committee
- Undergraduates mentored – Elizabeth Bosak (currently a Ph.D. student at Penn State), Taylor Bronikowski, Lauren Bronikowski, Lauren Stefaniak (currently a Research Assistant at University of Iowa)
- Guest Lecturer, Courses in Aquatic Ecology & Chemical Ecology, Georgia Institute of Technology
- Teaching Assistant, Organismal Biology, Georgia Institute of Technology

SEMINARS AND PRESENTATIONS

- National Museum of Natural History (2008)

- Smithsonian Tropical Research Institute/Barro Colorado Island (2008)
- Umeå University, Sweden (2008)
- Ecological Society of America Symposium - Beyond single mechanisms: the relative and interactive importance of bottom-up and top-down processes in plant invasion (2007)
- Smithsonian Environmental Research Center (2007)
- University of California Irvine (2007)
- Cornell University (2006)
- Smithsonian Environmental Research Center (2006)
- Texas Tech University (2006)
- University of Rhode Island (2006)
- Yale University (2004)
- 23rd Mid-South Aquatic Plant Management Society Meeting (2004)
- College of William and Mary/Virginia Institute of Marine Science (1998)
- Ecological Society of America (*3 presentations*, 2004-2006)
- Cornell University Invasive Species Symposium (2006)
- Georgia Institute of Technology Biology Symposium (*5 presentations*, 2001-2005)
- Marine Benthic Ecology Meetings (*2 presentations*, 1998, 2001)
- Southeastern Ecology and Evolution Conference (2004)
- 7th International Conference on the Ecology and Management of Alien Plant Invasions (2002)

PROFESSIONAL AFFILIATIONS

Ecological Society of America

