

MARTHA F. HOOPES

*Curriculum vitae*

Biological Sciences  
Mount Holyoke College  
South Hadley, MA 01075

413-538-2210 office  
413-538-2548 fax  
*mhoopes@mtholyoke.edu*

EDUCATION

- 1992-1999 *PhD Graduate Group in Ecology*, Conservation Area of Interest, University of California, Davis, CA  
Dissertation title: The effects of herbivory, competition, and spatial patterning on the persistence of *Sporobolus airoides* Torrey, a perennial grass native to California.
- 1983-1987 *BA English and Physics*, Williams College, Williamstown, MA, Phi Beta Kappa.

TEACHING EXPERIENCE

- 2004-present *Clare Boothe Luce Assistant Professor*, Biological Sciences, Mount Holyoke College, South Hadley, MA  
Ecology (Biology 223), Theory and Application of Conservation Biology (Biology 331), Ecology & Evolution (Biology 213 with Stan Rachootin), Introduction to Environmental Studies (ES 100, spring 2007)
- 2003-2004 *Visiting Research Fellow*, University of California, Berkeley, CA
- 1999-2003 *Post-Doctoral Research Fellow*, University of California, Berkeley, CA
- 1997 *Lecturer*, General Ecology (EST 100), Environmental Studies, University of California, Davis, CA.

PUBLICATIONS (\* indicates undergraduate author)

- Boukili\*, V.S., M.F. Hoopes, and C.J. Briggs. 2007. Effect of microenvironment on development of a gall midge. *Journal of Environmental Entomology* 36:451-457.
- Darrouzet-Nardi\*, A., M.F. Hoopes, J.D. Walker\*, C.J. Briggs. 2006. Dispersal and foraging behavior of *Platygaster californica*: Hosts can't run, but they can hide. *Ecological Entomology* 31: 298-306.
- Chase, J.P. Amarasekare, K. Cottenie, A. Gonzalez, R. Holt, M. Holyoak, M.F. Hoopes, M. Leibold, M. Loreau, N. Mouquet, J. Shurin, and D. Tilman. 2005. Competing theories for competitive metacommunities. Pp. 335-354 in M. Holyoak, R.D. Holt, and M.A. Leibold, eds. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL, USA.
- Holt, R.D. and M.F. Hoopes. 2005. Foodweb dynamics in a metacommunity context: modules and beyond. Pp. 68-93 in M. Holyoak, R.D. Holt, and M.A. Leibold, eds. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL, USA
- Holyoak, M., M.A. Leibold, N.M. Mouquet, R.D. Holt, and M.F. Hoopes. 2005. Metacommunities, a framework for large scale community ecology. Pp. 1-31 in M. Holyoak, R.D. Holt, and M.A. Leibold, eds. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL, USA.
- Hoopes, M.F., R.D. Holt, and M. Holyoak. 2005. The effects of spatial processes on two-species interactions. Pp. 35-67 in M. Holyoak, R.D. Holt, and M.A. Leibold, eds. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL, USA.

- Mouquet, N., M.F. Hoopes, P. Amarasekare. 2005. The world is patchy and heterogeneous! Trade-off and source-sink dynamics in competitive metacommunities. Pp. 237-262 in M. Holyoak, R.D. Holt, and M.A. Leibold eds. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL, USA.
- Amarasekare, P., M.F. Hoopes, N. Mouquet, M. Holyoak. 2004. Coexistence in competitive metacommunities. *American Naturalist* 164: 310-326.
- Briggs, C.J. and M.F. Hoopes. 2004. Stabilizing effects in spatial parasitoid-host and predator-prey models: a review. *Theoretical Population Biology* 65:299-315.
- Leibold, M.A., M. Holyoak, N. Mouquet, P. Amarasekare, J. Chase, M.F. Hoopes, R. Holt, J. Shurin, R. Law, D. Tilman, M. Loreau, and A. Gonzalez. 2004. The metacommunity concept: a framework for multi-scale community ecology. *Ecology Letters* 7:601-613.
- Shurin, J.B., P. Amarasekare, J.M. Chase, R.D. Holt, M.F. Hoopes, M.A. Leibold. 2004. Alternative stable states and regional community structure. *Journal of Theoretical Biology* 227:359-368.
- Hoopes, M.F. and L.M. Hall\*. 2002. Edaphic factors and competition affect pattern formation and invasion in a California grassland. *Ecological Applications* 12:24-39.
- Lee, C., M.F. Hoopes, E. Clarke, J. Diehl, W. Gilliland, G. Huxel, K. McCann, J. Umbanhowar, and A. Mogilner. 2001. Non-local concepts and models in biology. *Journal of Theoretical Biology* 210:201-219.
- Hoopes, M.F., and S. Harrison. 1998. Metapopulation, source-sink and disturbance dynamics. Pages 135-151 in W.J. Sutherland, editor. *Conservation Science and Action*. Blackwell Science, Oxford, UK.
- Ray, C. and M. Hoopes. 1997. Review. A step toward synthesizing conservation biology. *Ecology* 78:2270-2271.
- Hoopes, M., C. Wilcox, J.E. Sandoval, J. Price, P. Trenham, and A. Wolfe. 1996. Biological survey and GIS database of Great Valley Grasslands State Park, California Department of Parks and Recreation, 100 pp.

#### TEXTBOOKS

- Lockwood, J., M.F. Hoopes, and M.P. Marchetti. 2007. *Invasion Ecology*. Blackwell Science, Oxford, UK.

#### INVITED PRESENTATIONS AND CONFERENCES

- 2006        *From warm fuzzy theory to cold hard reality: what can theoreticians do for restoration practitioners?* Symposium on Upstart perspectives on restoration icons, Ecological Society of America Annual Meetings, Memphis, TN.  
*Invasions on the horizon: how do we view non-native species?* Harvard Forest seminar series. Petersham, MA.
- 2005        *Invasions on the horizon: the spread and impact of non-native species*. Organismal and Evolutionary Biology Seminar Series, University of Massachusetts, Amherst, MA.
- 2004        *"Pasturized" and homogenized: shaking up native communities with agriculture and introduced species*. Sigma Xi, Mount Holyoke College, South Hadley, MA.  
*Fragmentation, degradation, and invasion: conservation in a changing world*. Section of Ecology, Behavior, and Evolution seminar series, UC San Diego, La Jolla, CA.
- 2003        *Fragmentation, degradation, and invasion: conservation in a changing world*. Department of Biology seminar series, Mount Holyoke College, South Hadley, MA.
- 2002        *Invasive species effects, cryptic invaders, and lag times*. Symposium on Methods for assessing risks due to invasive species: theoretical ecology as a starting point. Ecological Society of America Annual Meetings, Tucson, AZ.

- 2001 *The Meta-Community Concept: A Framework for Large Scale Ecology?* Working group at the National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.  
*Muddy mug shots: the pitfalls of picking out the worst invaders from snapshots of spatial patterns.* Ecology and Management of Invasive Species, 6th Biennial Conference of Research on the Colorado Plateau, USGS and Department of Biological Sciences and Merriam-Powell Center for Environmental Research, Northern Arizona University, Flagstaff, AZ.  
*Picking out badguys from snapshots: the pitfalls of predicting noxious invaders from spatial patterns of invasion.* Department of Biological Sciences seminar series, California State University, Chico, CA.  
*Applications of source-sink models to conservation.* Center for Conservation Biology, Stanford University, Palo Alto, CA.  
*Perennial dilemmas in conservation: the effects of changing competitors, herbivores, and abiotic factors.* Biology Department Seminar Series, Swarthmore College, Swarthmore, PA.
- 2000 *Conservation of long-lived, questionably-charismatic mega-flora: dilemmas and a case study.* Environmental Studies Department Seminar Series, University of California, Santa Cruz, CA.
- 1999 *Between a rock and an invaded place: habitat quality and competition in the conservation of a perennial grass.* Integrative Biology Seminar Series, University of California, Berkeley, CA.
- 1998 *How do mammals, insects, and annual grasses differ?* Conservation Biology seminar series, University of California, Davis, CA.
- 1997 *Who cares? It's only grass, anyway.* Conservation Ecology Area of Emphasis seminar series, University of California, Davis, CA.

#### SERVICE EXPERIENCE

- 2007-2008 National Science Foundation Environmental Biology Panel, NSF, Washington, DC.  
Trustee The Hitchcock Center for the Environment trustee, Amherst, MA.
- 2005-2006 National Science Foundation Environmental Biology Panel, NSF, Washington, DC.  
Switzer Foundation Environmental Fellowship Interviewer, Boston, MA.  
Academic Administrative Board, Subcommittee on Teaching Evaluations, Phi Beta Kappa Committee, Phi Beta Kappa Prize Committee, Data Analysis Faculty Seminar, Center for the Environment Steering Committee, Environmental Studies Committee, Biological Sciences Behavioral Biologist Search Committee, Biological Sciences Seminar Committee, Biological Sciences Budget Committee, Long's Field Farm Discussion Group, Environmental Literacy Discussion Group, Mount Holyoke College, South Hadley, MA.
- 2004-2005 Environmental Studies Committee, Subcommittee on Teaching Evaluations, Phi Beta Kappa Committee, Phi Beta Kappa Prize Committee, Biological Sciences Seminar Committee, Biological Sciences Independent Study Committee, New Faculty Seminar, Mount Holyoke College, South Hadley, MA.
- 2001-2002 Switzer Foundation Environmental Fellowship Interviewer, San Francisco, CA.
- 2000 Ecological Society of America Graduate Student Buell/Braun Award judge.
- 1997-1999 Diversity Committee, Ecology Graduate Group, University of California, Davis, CA.
- 1997-1998 Search Committee for Department Chair, Department of Environmental Science & Policy, University of California, Davis, CA.
- 1996-1998 Curriculum Committee, Ecology Graduate Group, University of California, Davis, CA.
- 1997 Department of Environmental Science & Policy Staff Recognition Award Committee.
- 1996-1997 Student Awards and Fellowships Committee, Ecology Graduate Group, University of California, Davis, CA.

- 1995-1996 Conservation Ecology Area of Emphasis Admissions Committee, Ecology Graduate Group, University of California, Davis, CA.
- 1993-1996 Conservation Ecology Area of Emphasis Steering Committee, Ecology Graduate Group, University of California, Davis, CA.
- 1994-1995 Conservation Ecology Area of Emphasis Seminar Series Organizer, Ecology Graduate Group, University of California, Davis, CA.
- 1993-1995 Conservation Ecology Area of Emphasis Student Contact, Ecology Graduate Group, University of California, Davis, CA.

PROFESSIONAL ACTIVITIES

- Member: Ecological Society of America (ESA), ESA Theoretical Ecology Section, American Institute for Biological Sciences, Society for Conservation Biology, California Native Plant Society, The Nature Conservancy, The Wilderness Society, Environmental Justice, Sierra Club, Natural Resources Defense Council, Hitchcock Center for the Environment, New England Wildflower Society.
- Reviewer: *American Naturalist, Biological Conservation, Biological Invasions, BioScience, Conservation Biology, Ecological Applications, Ecology, Ecology Letters, Journal of Animal Ecology, Journal of Ecology, Journal of Vegetation Science, Landscape Ecology, Oecologia, Oikos, National Science Foundation.*