

## Benjamin E. Wolfe

Organismic & Evolutionary Biology  
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### RESEARCH INTERESTS

- Ecology and evolution of symbiotic interactions
- Molecular microbial ecology
- Invasion biology of plants and microbes
- Diversity and function of soil organisms

### EDUCATION

**2005 – present:** Ph.D. Program, Organismic and Evolutionary Biology, **Harvard University**, Cambridge, Massachusetts, Advisor: Anne Pringle

**2003 – 2005:** M.Sc., Department of Botany/Integrative Biology, **University of Guelph**, Guelph, Ontario, Canada. Thesis: “Structural and functional spatial heterogeneity of arbuscular mycorrhizal fungi.”  
Advisor: John N. Klironomos

**1999 – 2003:** B.S. (honors) Natural Resources/Plant Science, *magna cum laude*, **Cornell University**, Ithaca, New York, Research Advisor: Barbara L. Bedford

### PEER-REVIEWED PUBLICATIONS

Klironomos JN, MF Allen, MC Rillig, J Piotrowski, S Makvandi-Nejad, BE Wolfe, and JR Powell. 2005. Abrupt rise in atmospheric CO<sub>2</sub> overestimates community response in a model plant-soil system. ***Nature*** 433:621-624.

Wolfe BE, and JN Klironomos. 2005. Breaking new ground: soil communities and exotic plant invasion. ***BioScience*** 55: 477-487.

Wolfe BE, BC Husband, and JN Klironomos. 2005. Effects of a belowground mutualism on an aboveground mutualism. ***Ecology Letters*** 8:218-223.

Stinson, KA, SA Campbell, JR Powell, BE Wolfe, RM Callaway, GC Thelen, SG Hallett, D Prati, and JN Klironomos. 2006. Invasive plant suppresses the growth of native tree seedlings by disrupting belowground mutualisms. ***PLoS Biology*** 4: 727-731.

Wolfe BE, PA Weishampel, and JN Klironomos. 2006. Arbuscular mycorrhizal fungi and water table affect wetland plant community composition. ***Journal of Ecology*** 94: 905-914.

Wolfe BE, MC Rillig, DL Mummey, and JN Klironomos. 2007. Small-scale spatial heterogeneity of arbuscular mycorrhizal fungi in a calcareous fen. ***Mycorrhiza*** 17: 175-183.

Wolfe, BE, VL Rodgers, KA Stinson and A Pringle. 2008. The invasive plant *Alliaria petiolata* (garlic mustard) inhibits ectomycorrhizal fungi in its introduced range. ***Journal of Ecology*** 96: 777-783.

Peterson, CN, S Day, BE Wolfe, AM Ellison, R Kolter, and A Pringle. 2008. A keystone predator controls bacterial diversity in the pitcher plant (*Sarracenia purpurea*) microecosystem. ***Environmental Microbiology*** 10: 2257-2266.

Rodgers, VL, BE Wolfe, L Werden, and AC Finzi. 2008. The invasive species *Alliaria petiolata* (garlic mustard) increases soil nutrient availability in northern hardwood–conifer forests. ***Oecologia*** 157: 459-471.

Vellinga, EC, BE Wolfe, and A Pringle. Global patterns of ectomycorrhizal introductions. ***New Phytologist*** 181: 960-973.

### FELLOWSHIPS and RESEARCH GRANTS

**2008-2009:** National Science Foundation Doctoral Dissertation Improvement Grant

**2007:** Deland Award for Student Research, Arnold Arboretum, Harvard University

**2007:** New England Botanical Club, Graduate Student Research Award

**2007:** Mycological Society of America, Clark T. Rogerson Student Research Award

**2004:** Mycological Society of America, Forest Fungal Ecology Research Award

## FELLOWSHIPS and RESEARCH GRANTS (continued)

**2004-2009:** National Science Foundation Graduate Research Fellowship

**2003:** Latornell Travel Scholarship, University of Guelph

**2002:** Cornell University Program in Biogeochemistry and Environmental Change Research Grant

**2002:** Cornell University College of Agriculture & Life Sciences Charitable Trust Research Grant

**2002:** Cornell University College of Agriculture & Life Sciences Hatch/Multistate Research Grant

**2002:** Cornell University College of Agriculture & Life Sciences Morley Undergraduate Research Grant

**2002:** Howard Hughes Medical Institute Undergraduate Research Scholar at Cornell University

**2000:** National Science Foundation GK-12 Fellowship, Cornell Environmental Inquiry

## HONORS

**2007:** Derek Bok Certificate of Distinction in Teaching, Harvard University

**2006:** John L. Harper Young Investigator's Prize, *Journal of Ecology* (Special Mention)

**2005:** 10<sup>th</sup> Biennial Soil Ecology Society Meeting – Student Oral Presentation Award (3<sup>rd</sup> Place)

**2003:** Richard Church Senior Service Award, Cornell University, College of Agriculture and Life Sciences

**2001 – 2002:** Morris K. Udall Foundation Scholarship in National Environmental Policy

## TEACHING EXPERIENCE

**2006:** Teaching Fellow, “Biology of the Fungi” Dr. Anne Pringle & Dr. Don Pfister, Harvard University

**2004:** Teaching Assistant, “Population Ecology” Dr. Christina Caruso, University of Guelph

**2003:** Teaching Assistant, “Lab and Field Methods in Ecology” Dr. Doug Larson, University of Guelph

**2002:** Teaching Assistant, “Wetland Ecology and Management” Dr. Barbara Bedford, Cornell University

## RESEARCH EXPERIENCE

**2005 – present:** Ph.D. degree research, Organismic & Evolutionary Biology, Harvard University

**Advisor:** Dr. Anne Pringle

**2003 – 2005:** M.Sc. degree research, Department of Botany, University of Guelph

**Advisor:** Dr. John N. Klironomos

**2000 – 2003:** Lab/Field Technician, Wetland Ecology Lab, Cornell University

**Advisor:** Dr. Barbara L. Bedford

**1999 – 2000:** Research Assistant, Plant Pathology Laboratory, Cornell University

**Advisor:** Dr. Helen Griffiths

## PROFESSIONAL SERVICE

**Reviewer for:** *Ecology Letters, Ecology, Ecological Entomology, New Phytologist, Plant & Soil, Ecology, FEMS Microbiology Ecology, Biological Invasions*

## SCIENCE OUTREACH and COMMUNICATION ACTIVITIES

**Microbial Science Initiative Teacher Workshop** – Course Instructor, Summer 2007 and 2008

**Harvard Museum of Natural History** – Course Instructor, Fall 2007

**Science in the News Boston** – Lecturer and Newsletter Contributor, Fall 2006

**Cornell Environmental Inquiry** – GK-12 Undergraduate Research Fellow, 2002

## REFERENCES

**Dr. Anne Pringle (Ph.D. advisor – current)**

Harvard University

Organismic and Evolutionary Biology

[pringle@oeb.harvard.edu](mailto:pringle@oeb.harvard.edu)

**Dr. Matthias Rillig (M.Sc. committee member)**

Freie Universitaet Berlin

Plant Ecology

[rillig@zedat.fu-berlin.de](mailto:rillig@zedat.fu-berlin.de)

**Dr. Marianne Krasny (undergrad academic advisor)**

Cornell University

Department of Natural Resources

[mek2@cornell.edu](mailto:mek2@cornell.edu)

**Dr. John Klironomos (M.Sc. advisor)**

University of Guelph

Department of Botany

[jkliro@uoguelph.ca](mailto:jkliro@uoguelph.ca)

**Dr. Barbara Bedford (undergrad research advisor)**

Cornell University

Department of Natural Resources

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**Dr. Carmen Chapin (undergrad research mentor)**

National Park Service

Great Lakes Network Office

[carmen\\_chapin@nps.gov](mailto:carmen_chapin@nps.gov)