

## Anne G. Rhoads

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### Education

#### **Brown University**, Providence, RI

Ph.D. candidate in Ecology and Evolutionary Biology focusing on natural and anthropogenic disturbances in the northern hardwood forest of New Hampshire  
Expected date of completion Spring 2004

Brown University Fellowship

#### **Yale University School of Forestry and Environmental Studies**, New Haven, CT

Coursework in forest science

Nancy Skinner Clark Fellowship for graduate study from Vassar College, 1997-1998

#### **Vassar College**, Poughkeepsie, NY

B.A., May 1996

Major: Biology, Minor: Anthropology

General and Departmental Honors, 1996

Phi Beta Kappa, 1996

Kate Roberts Prize for Excellence in Biology, 1996

### Research Experience

#### **Brown University, Dept. of Ecology and Evolutionary Biology, Dr. Steven Hamburg, *Dissertation***

- Title: The role of multiple disturbances in determining composition and structure of the northern hardwood forest
- Significance: This study integrates the roles of several potentially influential forest disturbances in a section of the northern hardwood forest and begins to examine the forest's recovery under different disturbance scenarios. By creating a model that synthesizes the effects of the disturbances and their interactions in a changing climate, I am making predictions on the likelihood of long-term forest resilience. This type of research is critical in understanding the role of disturbances in various ecosystems as we prioritize land for protection and create management plans to ensure its long-term health.

#### **Brown University, Dept. of Ecology and Evolutionary Biology, Dr. Steven Hamburg, *Research Assistant*** (May-August 1998)

- Performed independent research on canopy damage caused by the January 1998 ice storm at the Hubbard Brook Experimental Forest, Woodstock, NH.

#### **Univ. of California, Davis, Entomology Dept., Dr. Rick Karban, *Research Assistant*** (Summer 1996)

- Conducted independent research on mortality among 17-year cicada larvae (*Magicicada septendecim*) in the Shawangunk Mountains, New Paltz, NY.

#### **Wellesley College, Biology Dept., Dr. Nicholas Rodenhouse, *NSF/REU Fellow*** (Summer 1995)

- Performed independent research on the effects of weather on the parental care and reproductive success of house finches (*Carpodacus mexicanus*).

#### **Vassar College, Biology Dept., Undergraduate Research Summer Institute, Dr. Robert Fritz, *Research Assistant*** (August 1993-December 1994)

- Investigated the effects of interspecific hybridization between *Salix spp.* plants on their resistance to herbivores and pathogens.

### Land Management Experience

**Rhode Island Water Resources Board, *Consultant*** (January 2003-present)

- Worked with a team from Brown University to create a GIS map of the 8,600 acre, forested Big River Management Area. Map provided a baseline inventory of natural and human-made features on the property.
- We are now planning the design of a long-term management plan for the area.

**Aquidneck Island Land Trust, Middletown, RI, *Land Conservation Intern*** (January-September 2003)

- Collected baseline documentation for conservation easements.
- Designed a management plan to ensure the long-term protection of an old growth forest owned by the land trust.
- Directed exotic, invasive species removals from protected land.
- Coordinated the annual monitoring program aimed at maintaining communication with landowners and ensuring compliance with conservation easements.
- Recruited and trained volunteers.

**Aquidneck Island Land Trust, Middletown, RI, *Volunteer*** (September 2003-present)

- Continue to direct exotic, invasive species removals from protected land.

**Rhode Island Water Resources Board, *Forestry Consultant*** (October 2002-February 2003)

- Evaluated planned and executed logging operations within the Big River Management Area.

**Mohonk Preserve, Daniel Smiley Research Center, New Paltz, NY, *Summer Intern*** (Summer 1993)

- Participated in numerous long-term studies including lake and spring water tests and bird and plant censuses.
- Completed an independent project assessing mountain bike damage to vegetation on the Preserve.

### Teaching Experience

**Brown University, Center for Environmental Studies, Dr. Steven Hamburg, *Teaching Assistant*** (September-December 1998, 1999, and 2002)

- Assisted in teaching Ecosystem Analysis, an undergraduate course emphasizing fieldwork aimed at developing skills used to measure and understand the important biological and physical parameters of terrestrial ecosystems in New England.

**Brown University, Center for Environmental Studies, *Undergraduate Mentor*** (Summer 2000, 2001, 2002, 2003)

- Led summer research activities for a team of undergraduates working in the White Mountains of New Hampshire on several forest disturbance ecology projects.

**Brown University, Dept. of Ecology and Evolutionary Biology, Dr. Jon Witman, *Teaching Assistant*** (January-May 1999, 2000, 2002)

- Taught discussion sections in Principles of Ecology, an undergraduate course emphasizing interactions of organisms and processes affecting individuals, populations and communities.

**Brown University, Dept. of Ecology and Evolutionary Biology, Dr. Johanna Schmitt, *Teaching Assistant*** (September-December 2001)

- Assisted in teaching Diversity and Adaptation of Seed Plants, an undergraduate course emphasizing classification and evolution in flowering plants.

**Emma Willard School, Troy, NY, *Biology Teacher*** (August 1996-June 1997)

- Taught two ninth and tenth grade biology classes. Class structure was self-designed and emphasized traditional general biology topics as well as hands-on learning of ecological principles in outdoor settings.

**Vassar College, Biology Dept., Dr. A. Marshall Pregnell, *Teaching Assistant*** (August-December 1995)

- Assisted in teaching Evolution of Biological Diversity laboratory, a course introducing students to the roles of ecology, genetics, and evolution in biodiversity.

### Teaching Experience Continued

**Vassar College, Biology Dept., Dr. Robert Fritz, *Teaching Assistant*** (August-December 1994)

- Assisted in teaching Ecology course laboratory that focused on species interactions and changes at the population and community levels, mainly taught through fieldwork.

### Other Professional Experience

Participated in Land Trust Alliance Rallies 2002, Austin, TX and 2003, Sacramento, CA.

### Other Activities

**Clean-up Roger Williams Park, Providence, RI, *Founder*** (2000-present)

Organize annual clean-ups of this urban park, encouraging community participation, especially among college and secondary school students.

**Langevin 2002 campaign for House of Representatives, *Volunteer*** (September-November 2002)

Participated in rallying support for the candidate.

**Gore-Lieberman 2000 campaign, *Volunteer*** (September-November 2000)

Participated in rallies and mailings.

**Vassar College, *Alumnae Interviewer*** (1998-present)

Interview applicants to the college.

**Philly's Bridge Farm, New Paltz, NY, *Organic Farmer***, (Summer 1997)

Prepared, planted, and harvested vegetable beds at this community-based farm.

Educated school groups about the importance of sustainable agriculture.

**Vassar College Spring Clean-Up, *Founder*** (1995-1996)

Led annual clean-up of litter from wooded areas around campus.

**Save Our Community, New Paltz, NY, *Volunteer***, (1994-1996)

Participated in rallies and community meetings to prevent unsustainable development.

### Publications

Fritz, R.S., S.E. McDonough, and A.G. Rhoads. 1997. Effects of plant hybridization on herbivore-parasitoid interactions. *Oecologia* 110: 360-367.

Rhoads, A.G., S.P. Hamburg, T.J. Fahey, T.G. Siccama, E.N. Hane, J. Battles, C. Cogbill, J. Randall, and G. Wilson. 2002. Effects of an intense ice storm on the structure of a northern hardwood forest. *Canadian Journal of Forest Research* 32:1763-1775.

Rhoads, A.G., S.P. Hamburg, J. Fahey, T.G. Siccama, and R. Kobe. 2004. Comparing direct and indirect methods of assessing canopy structure in a northern hardwood forest. *Canadian Journal of Forest Research* 34: 584-591.

Rhoads, A.G. and S.P. Hamburg. In Prep. The legacy of agriculture on post-abandonment forest composition in northern hardwood forests of New Hampshire.

Rhoads, A.G. and S.P. Hamburg. In Prep. Important recruitment mechanisms in the reforestation of abandoned pastures and clearcuts in the northern hardwood region.

### Oral Presentations

Rhoads, A.G. August 2003. The role of past agriculture on the composition of the northern hardwood forest. Ecological Society of America, Annual Meeting, Savannah, GA.

Rhoads, A.G. July 2003. The role of past agriculture in northern hardwood forest composition. Hubbard Brook Collaborators' Annual Meeting, Woodstock, NH.

Rhoads, A.G. July 2002. The effect of multiple disturbance interactions on the northern hardwood forest. Hubbard Brook Collaborators' Annual Meeting, Woodstock, NH.

Rhoads, A.G. July 2001. The role of former pasturing on today's northern hardwood forest. Hubbard Brook Collaborators' Annual Meeting, Woodstock, NH.

### Oral Presentations Continued

Rhoads, A.G., S.P. Hamburg, T. Fahey, T. Siccama, and E.N. Hane. August 2000. Characterizing susceptibility to and effects of the January 1998 ice storm in the White Mountain National Forest, NH. Ecological Society of America, Annual Meeting, Snowbird, UT.

Rhoads, A.G. July 2000. Broadening a single disturbance study to a multiple disturbance dissertation project. Hubbard Brook Collaborators' Annual Meeting, Woodstock, NH.

Rhoads, A.G. and S.P. Hamburg. September 1999. Characterizing susceptibility to and effects of the January 1998 ice storm at Hubbard Brook Experimental Forest. Influences of Wind Disturbance on Ecosystem Process Workshop. Taiwan Forestry Research Institute, Taipei, Taiwan.

Rhoads, A.G., S.P. Hamburg, T. Fahey, T. Siccama, and E.N. Hane. July 1999. Characterizing susceptibility to and effects of the 1998 ice storm at Hubbard Brook Experimental Forest. Hubbard Brook Collaborators' Annual Meeting, Woodstock, NH.

Rhoads, A.G. Characterizing susceptibility to and effects of the January 1998 ice storm at Hubbard Brook Experimental Forest. June 1999. International Young Researchers' Workshop on Long-Term Ecological Research, Tomokomai Experimental Forest, Hokkaido, Japan.

#### **Poster Presentations**

Rhoads, A.G. and S.P. Hamburg. September 2003. The legacy of past agriculture on post-abandonment forest composition in the northern hardwood forest of New Hampshire. LTER All Scientists Meeting, Seattle, WA.

Rhoads, A.G. and S.P. Hamburg. October 1999. Susceptibility to and effects of the January 1998 ice storm at Hubbard Brook Experimental Forest. International LTER Network Conference, Seoul, South Korea.

#### **Professional Associations**

Ecological Society of America (ESA), Women in Science and Engineering (WISE), Land Trust Alliance (LTA)

#### **Other Skills**

Proficiency with PC and Macintosh computers and programs including Microsoft Word, Excel, Outlook, and Powerpoint, statistical programs including JMP and SAS, GIS training using Arcview 3.2, intermediate proficiency in speaking, reading, and writing French.