

Nicole Elizabeth Miller

*Curriculum Vitae - March 2007*

Washington University in St. Louis

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## Education

- 2004-present Ph. D. Candidate, *Evolution, Ecology and Population Biology*, Department of Biology, Washington University in St. Louis.  
Advisor: Tiffany M. Knight
- 2005 *Tropical Biology* course (05-1), Organization for Tropical Studies
- 1999-2003 B.S. (Magna Cum Laude), *Biology*, Minor *Fine Arts*, Loyola University Chicago.  
Advisor: Dr. Nancy Tuchman

## Fellowships & Grants

- 2005 National Science Foundation Predoctoral Fellowship
- 2004 Graduate Student Research Fellowship. Washington University in St. Louis
- 2002 Mulcahy Scholarship for Research. Nutritional quality of tree foliage decreased by elevated atmospheric CO<sub>2</sub>: Effects on shredder feces and implications for downstream collectors. \$1000

## Awards & Honors

- 2003 High Honors in Biology  
High Achievement in Research  
Departmental Honors  
Phi Beta Kappa  
National Society of Collegiate Scholars  
Golden Key Honors Society

## Publications

- 2004 Norby RJ, Ledford J, Reilly CD, **Miller NE**, O'Neill EG. Fine root production dominates response of a deciduous forest to atmospheric CO<sub>2</sub> enrichment.  
*Proceedings of the National Academy of Sciences* 101: 9689-9693.

## Professional Presentations

- 2006 Ecological Society of American Annual Meeting, Memphis, TN.  
Environmental change alters plant-pollinator interactions of a prairie species, *Lupinus perennis*.
- Cedar Creek Natural History Area Symposium. Bethel, MN.  
Plant-pollinator interactions shift in response to climate change.
- Midwest Ecology and Evolution Conference, Saint Louis University, St. Louis, MO.  
Environmental Change and Pollination Ecology in a common legume, *Trifolium repens*.
- 2005 Plant Conservation in an Era of Global Climate Change, Chicago Botanic Garden, IL  
Elevated CO<sub>2</sub> and N: The Future of Plant-Pollinator Interactions.
- 2003 Mulcahy Scholarship Symposium, Loyola University, Chicago, IL.

Nutritional quality of tree foliage decreased by elevated atmospheric CO<sub>2</sub>: Effects on shredder feces and implications for downstream collectors.

Global Change Education Program Symposium, Department of Energy, Gainesville, FL  
Increasing atmospheric temperature: growth and acclimation of four deciduous tree species.

2002 Global Change Education Program Symposium, Department of Energy. Chicago, IL  
Fine root standing crop and specific root length in a CO<sub>2</sub> enriched deciduous forest.

## Academic & Professional Activities

2007 **Co-organizer:** Young Scientist Program, Ecology Teaching Team  
2007 **Participant:** Professional Development Working Group  
2006-2007 **Participant:** EEPB Recruitment Committee  
2004-2007 **Participant:** EEPB Women's Forum  
2005-2006 **Co-organizer:** Midwest Ecology and Evolution Conference  
2005-2006 **Co-organizer:** Evolution, Ecology and Population Ecology Seminar Series  
2004-2005 **Participant:** Young Scientist Program, Evolution Teaching Team

## Teaching experience

### *Courses Taught and Invited Lectures*

2006 Biological Conservation (teaching assistant)

### *Undergraduate Mentorships*

2007 *Project:* Floral traits in a changing environment: the role elevated CO<sub>2</sub> on attractiveness  
*Students:* Julien Beatie

2006 *Project:* The effects of elevated CO<sub>2</sub> and N on plant herbivore damage in a prairie system  
*Students:* Brian Smeets  
*Funding:* HHMI Undergraduate Fellow (\$3500)

## Professional Development

2006 Graduate Student Rotation III, Dr. Ken Olsen. Does cyanogenic white clover show decrease cold tolerance in a laboratory experiment? Washington University, St. Louis, MO

2005 Tropical Ecology student, Organization for Tropical studies, Costa Rica

Graduate Research Rotation II, Dr. Tiffany M. Knight. Environmental change alters plant-pollinator interactions of a prairie species, *Lupinus perennis*. Washington University, St. Louis, MO

2004 Graduate Research Rotation I, Dr. Jonathon Chase. Community response to increased temperature and increased temperature variation in a protest microcosm experiment. Washington University, St. Louis, MO

2003 Research Technician, Dr. Sue Farr. Department of Geriatrics, St. Louis University, St. Louis, MO

Summer Undergraduate Research Experience Intern, Dr. Nelson Edwards, Global Change Education Program, Department of Energy. Increasing atmospheric temperature: growth and acclimation of four deciduous tree species. Oak Ridge National Laboratory, Oak Ridge, Tennessee.

2002

Mulcahy Scholar in Research, Dr. Nancy Tuchman. Nutritional quality of tree foliage decreased by elevated atmospheric CO<sub>2</sub>: Effects on shredder feces and implications for downstream collectors. Loyola University, Chicago, Illinois.

Summer Undergraduate Research Experience Intern, Global Change Education Program, Department of Energy. Fine root standing crop and specific root length in a CO<sub>2</sub> enriched deciduous forest. Oak Ridge National Laboratory, Oak Ridge, Tennessee, Dr. Richard Norby.

Research Assistant, Dr. Nancy Tuchman. Nutritional quality of tree foliage decreased by elevated atmospheric CO<sub>2</sub>: Effects on stream detritivore growth and development rates. Loyola University, Chicago, Illinois

## Professional Associations

Ecological Society of America

American Association for the Advancement of Science

Association for Women in Science