

# Michelle M. (Gooch) Jackson

Ecosystem & Landscape Ecology Lab  
Department of Zoology  
University of Wisconsin  
Madison, WI, USA, 53706

Phone: (828) 734-4460  
E-mail: mgooch@wisc.edu

## Education

---

- Ph.D. Zoology, expected 2012, University of Wisconsin, Madison, WI.  
Advisor: Dr. Monica Turner. Dissertation title: The effects of climate and land-use history on native forest herbs and pollinators in the Southern Appalachians
- Delta Certificate, expected 2012, Center for the Integration of Research, Teaching and Learning (CIRTL), University of Wisconsin, Madison, WI
- M.S. Conservation Biology & Sustainable Development, 2008, University of Wisconsin, Madison, WI. Advisor: Dr. Lisa Naughton
- Professional Residency in Environmental Education. 2006, Teton Science Schools, Jackson, WY
- B.S. Biology, *cum laude*, 2005, Davidson College, Davidson, NC.

## Professional Interests

---

Plant community ecology, landscape ecology, global change, land-use history, plant-pollinator interactions, field natural history, socio-ecological systems, science education

## Relevant Work Experience

---

- Summer 2012 *Faculty Instructor and Student Mentor*, Wildlife Biology field course, Rocky Mountain Biological Laboratory, Gothic, CO.
- Taught a summer field course, mentored an undergraduate independent research project, led an adult science seminar titled *Biology of Birds*, co-led the 2012 Gothic Breeding Bird Survey, and led several bird walks for the public.
- 2010-2012 *Graduate Research Assistant*, University of Wisconsin, Madison, WI
- 2008-2010 *Teaching Assistant*, Department of Zoology, University of Wisconsin-Madison
- Introductory Biology (ZOO 152, 1 semester lab, 1 sem. discussion)
  - General Ecology (ZOO 460, 2 sem. combined lab and discussion)
  - Extinction of Species (ZOO 360, 1 semester discussion)
- 2004-2005 *Lab Technician and Outreach Coordinator*, Davidson College, NC.
- Used radio-telemetry to monitor box turtles and black rat snakes, presented talks on herpetology to local schools and community groups, coordinated citizen science initiatives
- 2005 *Science and Education Intern*, A Rocha Canada, Surrey, British Columbia, CA
- Implemented an amphibian monitoring program and assisted with environmental education day camps for children ages 6-14.

## Grants and Awards

---

- 2012 John Jefferson Davis Travel Award, Department of Zoology, University of Wisconsin-Madison. \$400 for travel to present at a talk at the Ecological Society of America meeting in Portland, OR
- 2011 Vilas Travel Grant, Department of Zoology, University of Wisconsin-Madison. \$600 for travel related to research
- 2009-present Au Sable Graduate Fellow, Au Sable Institute for Environmental Studies. \$200/year for purchase of books pertaining to environmental stewardship
- 2009 Bunde Fund Research Grant, Department of Zoology, University of Wisconsin-Madison. \$900 for research expenses
- 2007 National Geographic Young Explorers Conservation Trust Grant \$5,000 for research expenses related to fieldwork in Kenya
- 2007 Scott-Kloeck-Jenson International Internship Grant, Global Studies Program, University of Wisconsin-Madison. \$1,000 for research-related travel to Kenya
- 2006-2007 Foreign Language and Area Studies (HEA Title IV) Fellowship. Tuition and stipend to study Kiswahili and conduct research relevant to African Studies at the University of Wisconsin, Madison
- 2004 Inducted into membership of Tau Omega Chapter of Tribeta Biological Honor Society

## Publications

---

- Jackson, M.M.**, S.M. Pearson, and M.G. Turner. Time since logging influences performance and population dynamics for a native understory herb in Southern Appalachian forests. *In review (submitted to Journal of Ecology)*
- Jackson, M.M.**, Turner, M.G., Ives, A.R., and S.M. Pearson. 2012. Seeing the forest and the trees: multilevel models predict both species and community patterns. *Ecosphere* 3(9):1-16.
- Jackson, M.M.** and L. Naughton. 2012. Education as an incentive for conservation around Arabuko-Sokoke Forest, Kenya. *Environmental Conservation* 39(4):347-356.
- Kirlin, M.S., **Gooch, M.M.**, Price, S.J., and M.E. Dorcas. 2006. Predictors of winter anuran calling activity in the North Carolina Piedmont. *Journal of the North Carolina Academy of Science* 122(1):10-18.
- Gooch, M.M.**, Heupel, A.M., Price, S.J., and M.E. Dorcas. 2006. The effects of survey protocol on detection probabilities and site occupancy estimates of summer breeding anurans. *Applied Herpetology* 3:129-142.
- In preparation*
- Jackson, M.M.**, Turner, M.G., and S.M. Pearson. Effects of stand age, logging roads, and elevation on pollinator communities in Southern Appalachian forests.
- Jackson, M.M.**, Turner, M.G., and S.M. Pearson. Interacting effects of climate and stand age on performance of five native forest herbs in the Southern Appalachians.

## Presentations

---

- Jackson, M.M.** 2012. Climate and logging history influence native forest herb performance in the Southern Appalachians. *Ecological Society of America meeting*, Portland, OR.
- Jackson, M.M.** 2012. Effects of stand age and climate on native forest herb performance in the Southern Appalachians. *Rocky Mountain Biological Lab Seminar Series*, Gothic, CO.
- Gooch, M.M.** 2012. Effects of active learning on students' enjoyment and content retention during Ecology field trips. *Center for the Integration of Research, Teaching, and Learning (CIRTL) virtual Teaching as Research poster session* (poster).
- Gooch, M.M.**, Turner, M.G., and S.M. Pearson. 2012. Climate and logging influence native forest herb performance in the Southern Appalachians. *Wisconsin Ecology Spring Symposium*, University of Wisconsin-Madison.
- Gooch, M.M.**, Turner, M.G., and S.M. Pearson. 2011. The influence of climate and logging on native forest herbs and their pollinators in the Southern Appalachians. *Coweeta LTER Annual Meeting and NSF Site Review*, Otto, NC (Field-trip talk).
- Gooch, M.M.** and L. Naughton. 2011. Education as an incentive for conservation around Arabuko-Sokoke Forest, Kenya. *International Symposium on Society and Resource Management*, Madison, WI.
- Gooch, M.M.**, Turner, M.G., and S.M. Pearson. 2010 and 2011. The influence of climate and logging on native forest herbs and their pollinators in the Southern Appalachians. *Coweeta LTER Annual Meeting and NSF Site Review*, Otto, NC (poster).
- Gooch, M.M.**, Heupel, A.M., Price, S.J., and M.E. Dorcas. 2005. Monitoring frogs in an urban landscape: calling surveys as a tool for analyzing frog distributions in the North Carolina Piedmont. *North Carolina Wildlife Society Annual Meeting*.
- Gooch, M.M.**, Heupel, A.M., Price, S.J., and M.E. Dorcas. 2005. The Effects of Urbanization and Survey Protocol on Detection Probabilities and Site Occupancy Estimates for Summer-Breeding Anurans. *66<sup>th</sup> Annual Meeting of the Association of Southeastern Biologists*, Florence, AL, and *Associated Colleges of the South Environmental Summit*, Atlanta, GA (poster).

## Additional Teaching and Mentoring

---

*Mentor for Undergraduate Research*, Alexander Nelson, Effects of structural complexity of willow (*Salix* spp.) on songbird diversity and abundance, Rocky Mountain Biological Lab, Summer 2012.

*Guest Lecturer*, Conserving Biodiversity among Rapid Social Change (GEOG 930), Education as an incentive for conservation around Arabuko-Sokoke Forest, Kenya. University of Wisconsin-Madison, Spring 2012.

*Development of course material and evaluation of student learning*, partial requirement for the Delta Certificate through the Center for the Integration of Research, Teaching and Learning Delta program, University of Wisconsin, Madison. I redesigned two fieldtrips for a course in General Ecology to make them more inquiry-based, and used quantitative and qualitative evaluation to assess how the changes affected student learning, Summer-Fall 2011.

*Guest Lecturer*, Population and Community Ecology (BIO 347), Effects of land-use history and climate on native forest herbs and their pollinators. Mars Hill College, NC, Spring 2011.

*Mentor for Undergraduate Research*, Abigail Kohl, Effects of logging roads on pollinator community composition and abundance, University of Wisconsin-Madison, Spring 2011.

*Guest Lecturer*, General Ecology (ZOO 460), Biodiversity and Succession, University of Wisconsin-Madison, Fall 2010.

*Guest Lecturer*, Extinction of Species (ZOO 360), Integrated Conservation and Development. University of Wisconsin, Madison, Fall 2008.

*Graduate Student Instructor*, Teton Science Schools, High School Field Ecology. Kelly, WY, Summer 2006.

*Eco-Team Instructor*, Davidson, NC. Taught environmental science to third-graders at a local elementary school, 2004-2005.

## **Professional Service**

---

*Graduate Student Council member*, Coweeta Long-term Ecological Research program, 2011-2012.

*External Reviewer*, Conservation and Society, 2011.

*Facilitator*, Au Sable Graduate Fellows, Madison, WI, 2010-2011

- Organized and led monthly meetings of graduate students and professionals on topics pertaining to environmental stewardship.

*Land Ethic Leadership Training*, Baraboo, WI, Fall 2010

- Completed a two-day training program on leading reflective discussions using literature, film, and artwork to engage people in discussion about critical environmental issues.

*Co-organizer & contact person*, Zoology Graduate Student Association, University of Wisconsin, Madison, 2010-2011.

- Co-organized monthly meetings and fund-raising activities

*Volunteer*, Carolina Vegetation Survey Pulse, Mars Hill, NC, Summer 2010

- Participated in an annual citizen-science program designed to document the composition and status of natural vegetation in the Carolinas

*Presenter*, Expanding Your Horizons, University of Wisconsin-Madison, Fall 2009 and 2010

- Presented a seminar on field biology for middle school girls attending a career exploration workshop.

*Instructor*, PEOPLE Program (Pre-College Enrichment Opportunity Program for Learning Excellence), University of Wisconsin, Madison, Summer 2008

- Taught a week-long course in plant ecology for high school students

*Bio-Society Service Chair*, Davidson College, NC, 2004-2005

## **Professional Organizations**

---

Ecological Society of America

U.S. Association for Landscape Ecology  
Sigma Delta Epsilon, Graduate Women in Science