

Dr. Mary Bricker

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EDUCATION:

- University of Montana, Organismal Biology and Ecology Ph.D. May 2009
Advisor: Dr. John Maron
- Lewis and Clark College, Biology major, English minor B.A. 2000

TEACHING EXPERIENCE:

- Assistant Professor, Pacific University, Oregon. Aug 2010-2012
Designed and taught courses, including labs, for: Introductory Biology (Bio 202, 204), Plant Systematics (Bio 430), Junior Seminar (Bio 304), Senior Capstone Experience, and Exploring Evolution (Bio 150, a course for non-science majors).
Coordinated General Bio I labs (13 sections, 6 instructors)
Managed greenhouse and plant care for Biology Department.
- Teaching Assistant, Plant Form and Function (Bio 316). University of Montana Spring 2009
- Instructor, General Biology Laboratory (Bio 109). University of Montana Summer Session 2008
- Teaching Assistant, Rocky Mountain Flora (Bio 350), University of Montana, 2005, 2007, 2008
- Ecologist in Residence, Hellgate Elementary School, Missoula, Montana, 2006-2007

OTHER EMPLOYMENT:

- SimBiotic Software, Curriculum Research and Development Team. July 2009-July 2010.
- Research Assistant to Dr. Carol Brewer, University of Montana. Fall 2009
- Research Assistant to Dr John Maron, University of Montana. January-July 2006
- Research Technician, Dr. Doug Schemske, Michigan State University Department of Plant Biology. 2001-2003
- Catherine Freer Wilderness Therapy Expeditions, Summer 2001.
- Wilderness Trip Leader, Lewis and Clark College Outdoors. 1998-2001.

PUBLICATIONS AND PRESENTATIONS:

Publications:

- **Bricker, Mary**, and John Maron, 2012. Post-dispersal seed predation limits the abundance of a long-lived perennial forb (*Lithospermum ruderale*). *Ecology*, 93(31), 2012, pp. 532-543.
- Williams, Jennifer L., Martha M. Ellis, **Mary C. Bricker**, Jediah Brodie, Elliott Parsons. 2011. Distance to stable stage distribution in plant populations and implications for near-term population projections. *Journal of Ecology* 99: pp1171-1178.
- McBride, Brooke B., Carol A. Brewer, **Mary C. Bricker**, and Mike Machura, 2011. Training the Next Generation of Renaissance Scientists: The GK-12 Ecologists, Educators, and Schools Program at The University of Montana. *Bioscience* V. 61, No. 6. Pp 466-476.
- **Bricker, Mary**, Dean Pearson, John Maron. 2010. Small mammal seed predation limits the recruitment and abundance of two perennial grassland forbs. *Ecology*, 91(1), 2010, pp. 85-92.
- **Bricker, Mary**. 2008. Plants on the move—a classroom experiment with wind-dispersed seeds. *Science and Children* v.46, 6; pp 24-28.

Selected Presentations:

- **Bricker, Mary**, and John Maron, 2011. Post-dispersal seed predation limits the abundance of a long-lived perennial forb (*Lithospermum ruderale*). Ecological Society of America Meeting, Austin TX, August 2011.
- **Bricker, Mary**, The stable age assumption in population models: can we violate it with impunity? Department of Organismal Biology and Ecology Seminar Series, University of Montana, April 2008.
- **Bricker, Mary**, John Maron, and Dean Pearson. Seed predation and seedling recruitment in *Lupinus sericeus* and *Lithospermum ruderale*. Ecological Society of America Conference, San Jose, CA, August 2007.
- **Bricker, Mary**. Plants on the move—testing wind-dispersed seeds in the classroom. *Poster presentation*, Ecological Society of America Meeting, San Jose, CA, August 2007.
- **Bricker, Mary**, Seed predation and seedling recruitment in *Lupinus sericeus* and *Lithospermum ruderale*. Department of Organismal Biology and Ecology Seminar Series, University of Montana, March 2007.

AWARDS, HONORS, AND GRANTS:

- Elise Elliott International Initiative grant, Pacific University, January 2012
- PRISM grant for research with undergraduates, Pacific University, summer 2011
- Bertha Morton Graduate Scholarship, University of Montana, 2008-2009
- Jack E. Schmautz Graduate Scholarship, University of Montana, 2007-2008.
- Outstanding Presentation Award, University of Montana Graduate Student and Faculty Research Conference, April 2007.
- National Science Foundation GK-12 Fellowship, University of Montana, 2006-2007.
- National Science Foundation EPSCoR Graduate Fellowship, University of Montana 2003-2005.
- Barbara Hirschi Neeley Scholarship, Lewis and Clark College, 1996-2000.

STUDENT MENTORING:

- Mikaila Way, Pacific University. Worked with senior environmental science major on travel project examining the biology, culture, and importance of organic coffee production in Oaxaca, Mexico. Spring semester 2012.
- Sasha Smigelska and Damien Lopez-Plancarte, Pacific University. Mentored two summer research students conducting baseline plant community surveys at Chehalem Ridge Natural Area, May-July 2011.
- Christen Kiser, Lewis and Clark College. Advised as a field assistant in 2006, on experiment examining pollen limitation in *Lupinus sericeus* in Blackfoot Valley Montana.
- Rosemary Crebs, Native American undergraduate intern from Stone Child Community College, mentored through The University of Montana Bridges to Baccalaureate Program, June-July 2005.

OUTREACH AND COMMUNITY INVOLVEMENT:

- Organized and ran Forest Voices Community Coffee, a community-supported direct-trade coffee share program, linking farmers in Oaxaca, Mexico to coffee consumers in Forest Grove, Oregon. Spring 2012.
- Led extracurricular wildflower hikes for Bio Club at Pacific University, Spring 2012.
- Faculty volunteer for Pacific University outdoor program's new student pre-orientation trips (sea kayaking in South Puget Sound with incoming freshman and student guides). Fall 2011.
- Designed and led ecology investigations for 5th-grade classes at Hellgate Elementary School as an Ecologist in Residence for academic year 2006-2007.

- Worked with students and teachers at Hellgate Elementary to install a native medicinal plant garden in their schoolyard, 2006-2007.
- Designed and created a guidebook and lesson plans to help teachers at the school use the garden as an educational resource. Worked with 5th and 3rd grade students to generate age-appropriate descriptions of the plants, and incorporate student writing and artwork into the guidebook.
- Led class of summer session general biology students in a field trip to Blackfoot Valley research sites, June 2006.
- Adult supervisor for Washington Middle School Earth Week Weed Pull, 2005 & 2006.
- Montana State Science Fair Judge, 2005.