

JANNICE FRIEDMAN

Biology Department
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EDUCATION

Post-Doctoral Fellow. 2009-present. Biology Department, Duke University, USA.

Ph.D., Ecology and Evolutionary Biology, 2009. University of Toronto, Canada
Thesis: The ecology and evolution of wind pollination.

M.Sc., Ecology, 2003. University of Calgary, Canada
Thesis: Inflorescence architecture in grasses (Poaceae): Morphological associations and pollination consequences.

Honour's B.Sc., Ecology, 2000. University of Toronto, Canada
Thesis: The evolution and maintenance of monoecy and dioecy in *Sagittaria latifolia* (Alismataceae).

ARTICLES PUBLISHED IN REFEREED JOURNALS

Friedman J. and S.C.H. Barrett. 2009. Wind of change: new insights on the ecology and evolution of pollination and mating in wind-pollinated plants. *Annals of Botany* 103: 1515-1527.

Friedman J. and S.C.H. Barrett. 2009. The consequences of monoecy and protogyny for mating in wind-pollinated *Carex*. *New Phytologist* 181: 489-497.

Stehlik I., **J. Friedman** and S.C.H. Barrett. 2008. Environmental influence on primary sex ratio in a dioecious plant. *Proceedings of the National Academy of Science*. 105: 10852-10857

Friedman J. and S.C.H. Barrett. 2008. High outcrossing in the annual colonizing species *Ambrosia artemisiifolia*. *Annals of Botany* 101: 1303-1309.

Friedman J. and S.C.H. Barrett. 2008. A phylogenetic analysis of the evolution of wind pollination in the angiosperms. *International Journal of Plant Sciences* 169: 49-58.

Friedman J. and L.D. Harder. 2005. Functional associations of floret and inflorescence traits among grass species. *American Journal of Botany* 92: 1862-1870.

Friedman J. and L.D. Harder. 2004. Inflorescence architecture and wind pollination in six grass species. *Functional Ecology* 18: 851-860.

Dorken, M.E., **J. Friedman** and S.C.H. Barrett. 2002. The evolution and maintenance of monoecy and dioecy in *Sagittaria latifolia* (Alismataceae). *Evolution* 56: 31-41.

PRESENTED PAPERS

J. Friedman. 2009. Wind of change: new insights on the ecology and evolution of wind pollination. North Carolina State University. November 2009.

J. Friedman and S.C.H. Barrett. 2009. Genetic and environmental control of sex allocation and dichogamy in ragweed. Canadian Society for Ecology and Evolution Annual Meeting. Halifax, Nova Scotia. May, 2009.

J. Friedman. The evolution and ecology of wind pollination. PhD exit Seminar. Ecology and Evolution Department, University of Toronto. May, 2009.

Barrett, S.C.H., I. Stehlik and **J. Friedman.** 2008. Sex ratio variation in dioecious plant populations. Frontiers of Sexual Plant Reproduction III. Tucson, Arizona. October, 2008.

Barrett, S.C.H., I. Stehlik and **J. Friedman.** 2008. Environmental influence on primary sex ratio in a dioecious plant. Analogies in the Evolution of Gender Expression and Sexual Strategies in Animals and Plants. Neuhausen/Fildern, Germany. September, 2008.

S.C.H. Barrett and **J. Friedman.** Ecology and evolution of wind pollination. The Ecology and Evolution of Plant-Pollinator Interactions Conference. Milwaukee, Wisconsin USA. August, 2008.

J. Friedman and S.C.H. Barrett. A phylogenetic analysis of the evolution of wind pollination in the angiosperms. Canadian Society for Ecology and Evolution Annual Meeting. Toronto, Ontario. May, 2007.

J. Friedman and S.C.H. Barrett. The consequences of monoecy for pollination and mating in wind-pollinated *Carex* (Cyperaceae). Society for the Study of Evolution Annual Meeting. Stony Brook, New York. June, 2006.

J. Friedman. The evolution and ecology of wind pollination. PhD Proposal Seminar. Department of Botany, University of Toronto. January, 2006.

J. Friedman and S.C.H. Barrett. Is wind pollination an inefficient process? Ontario Ecology and Ethology Colloquium. Ottawa, Ontario. May, 2005. Provincial.

J. Friedman. On the ecology and evolution of wind pollination. Botany Graduate Students Seminar Series. Toronto, Ontario. April, 2005.

- J. Friedman.** Inflorescence architecture in grasses and the consequences for pollination. Ontario Ecology and Evolution Colloquium. Toronto, Ontario. May, 2004.
- J. Friedman** and L.D. Harder. Wind pollination in grasses: the role of inflorescence architecture. Society for the Study of Evolution Annual Meeting. Chico, California. June, 2003.
- J. Friedman.** Wind pollination in grasses (Poaceae): Are they simply blowin' in the wind? Prairie Universities Biological Symposium. Calgary, Alberta. February, 2002.
- J. Friedman.** The evolution and maintenance of monoecy and dioecy in a plant species. Ecology Graduate Seminar Series. Calgary, Alberta. November 2000.

SCHOLARSHIPS, GRANTS AND AWARDS

Fellowships and Scholarships

- NSERC Post-doctoral Fellowship, 2009-2011 (\$80000)
- Frederick P. Ide Graduate Award, 2008 (\$2200)
- OGSST Charles E. Eckenwalder, 2006-2008 (\$30000)
- NSERC Canadian Graduate Scholar, 2004-2005 (\$70000)
- Valerie Anderson Graduate Fellowship, 2005 (\$1992)
- Mary H. Beatty Award, 2004 (\$5000)
- University of Toronto Fellowship, 2004 (\$2500)
- NSERC PGS A, 2000-2002 (\$34500)
- iCORE Fellowship, 2000-2002 (\$24000)
- Province of Alberta Graduate Scholarship, 2002-2003 (\$6200)
- Alberta Heritage Master's Scholarship, 2002 (\$2000)
- Graduate Studies Tuition Bursary, 2000 (\$3000)
- Biological Science's Scholarship, 2000 (\$1500)
- Dr. James A. and Connie P. Dickson Scholarship, 1999-2000 (\$500)
- University College Special In-Course Scholarship, 1998-1999 (\$250)
- F.C.A. Jeanneret University College Alumni Scholarship, 1996-1997 (\$2400)
- Ontario Secondary School Teacher's Federation Bursary, 1996-1997 (\$1000)
- Miller Thomson Foundation Scholarship, 1996-1997 (\$1000)
- University of Toronto Scholar, 1996-1997 (\$3000)

Grants

- Canadian Society for Ecology and Evolution Student Travel Grant, 2009 (\$500)
- Alberta Challenge Grants in Biodiversity, 2002-2003 (\$10000)
- Research Services Travel Grant, 2003 (\$1000)

Awards and Honours

Annals of Botany Prize – best Botanical Graduate Student Talk at the Canadian Society for Ecology and Evolution Meetings, 2007

D. L. Bailey Award – best Ph.D. proposal in Botany, 2006 (\$200)

Best Student Presentation, Botany Graduate Seminar Series, 2005

EMPLOYMENT AND TEACHING

Environmental Biology, U. of Toronto, 2004-2008. Teaching assistant requiring leading field trips, laboratory experiments and marking.

Field Botany, U. of Toronto, 2007. Teaching assistant for field course involving plant identification, vegetation analysis and independent projects.

Organisms in their Environment, U. of Toronto, 2004-2006. Teaching assistant requiring tutorials, preparation and marking.

Evolutionary Biology, U. of Calgary, 2003. Part time teaching assistant requiring tutorials, preparation and marking.

General Biology, U. of Calgary, 2000-2001. Part time teaching assistant, requiring lab preparation, instruction and marking. University of Calgary.

Invited Lecture, Experimental Ecology in S. Ontario, 2005, 2006, 2007, 2008. Field course guest lecture on the ecology and evolution of wind pollination. University of Toronto

Invited Lecture, Graduate Course in Quantitative Ecology, 2001. Size structured dynamics of pollen. University of Calgary.

Research Assistant (Dr S.C.H. Barrett), University of Toronto, 2000.

Field Research Assistant (Dr K.J. Esler), University of Stellenbosch, South Africa, 1999.

Research Assistant (Dr S.M. Smith), University of Toronto, 1998-1999.

Peace Games Toronto. Implemented a weekly curriculum based on non-violent conflict resolution in grade 5 classrooms, 1998-1999.

PROFESSIONAL AFFILIATIONS AND SERVICE

Committees and Service Positions

Curriculum Review and Renewal Committee, Faculty of Arts and Science – Graduate student representative, 2006-2007

Ombudsperson, Ecology and Evolution Graduate Students Association, 2006-2007

Botany Department Seminar Committee – Graduate student representative, 2005-2006

Ombudsperson, Botany Graduate Students Association, 2005-2006

President, Botany Graduate Students Association, 2004-2005

Functional Plant Ecology Assistant Professor – search committee, Graduate student representative, 2004-2005

Faculty of Science Women's Network, 2002-2003

Biological Sciences Representative, Graduate Students Association, U. of Calgary, 2001-2002

Ecology Assistant Professor, U. of Calgary graduate students' hiring committee, 2003

Population Ecology Assistant Professor, U. of Calgary graduate students' hiring committee, 2002

Public Outreach

Judge for the elementary school Toronto Science Fair, 2005, 2006

Presented 3 invited lectures on ecosystem function to grade 4 gifted classes and grade 7 students at Crosby Heights Public School, 2005

Judge for the elementary school Calgary Youth Science Fair, 2001, 2002

Mentoring

Mentor for Undergraduate Students. Mentored five students who worked with me as summer field assistants (2002-2007), of which three have gone on to pursue graduate work.

External Reviewer

American Journal of Botany, Australian Journal of Botany, Canadian Journal of Botany, Evolution, Functional Ecology, Journal of Ecology, Journal of Theoretical Biology, Sexual Plant Reproduction.

Societies

The Society for the Study of Evolution, The Canadian Society of Ecology and Evolution