
Eric J. von Wettberg

Biological Sciences
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EDUCATION AND EMPLOYMENT**Postdoctoral Researcher** **2007-2009**

NIH NRSA fellow, UC Davis Ecology and Evolution

- Advisors: Maureen Stanton, co-advised by Sergey Nuzhdin, Doug Cook
- Genomics of stress tolerance in plants

Ph.D. Ecology and Evolution **June 2007**

Brown University, Providence, RI

- Dissertation Advisor: Johanna Schmitt
- Dissertation Title: *Landscape genetics and local adaptation in Impatiens capensis*

Fulbright Fellow and Rotary Ambassorial Scholar **1999-2000**

Royal Veterinary and Agricultural University (KVL), Copenhagen, Denmark

- Advisor: Dr. Jacob Weiner
- Project title: *Using crop density and spatial planting pattern to suppress weeds in organic cereal crops*

B.A. Biology **May 1999**

- Swarthmore College, Swarthmore, PA.
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RESEARCH**Grants and Fellowships**

- **NSF Plant Genome Research Program** **2008**
Genomics of salinity tolerance in desert *Medicago Truncatula*, \$2,700,000
PI S. Nuzhdin, UC Davis based lead Co-PI with D. Cook, S Strauss, M. Friesen
- **NSF International Research and Education Planning Grant** **2008**
Genomics of salinity tolerance in *Medicago truncatula* in Tunisia, \$20,000
PI S. Nuzhdin, Co-PI with D. Cook, S Strauss, M. Friesen.
- **NIH National Research Service Award** **2007-2009**
Genomics of Nickel tolerance in *Arabidopsis lyrata*, \$141,318
- **NSF Doctoral Dissertation Improvement Grant** **2004**
Local adaptation and landscape genetics of plastic shade avoidance responses in *Impatiens capensis*, \$11,450
- **EPA STAR Graduate Fellowship** **2004-2007**
Landscape genetics of escaped ornamental *Impatiens*, \$138,000
- **SICB Graduate Student Travel Award** **2004**
For travel to the UK to collect introduced invasive genotypes of North American *Impatiens capensis*, \$2000
- **Nature Conservancy Wald Grant** **2002**
For study of conservation genetics of *Liatris scariosa* var. *Novae-Angliae*, an endangered plant. Kelly Gravuer, PI, Co-PI with Johanna Schmitt, \$3000

- **Sigma Xi Grant in Aid of Research** **2001**
For study of temporal change in allocation to dispersal structures in seeds of *Liatris scariosa* var. *Novae-Angliae*, \$500
- **Fulbright Fellowship** **1999-2000**
To study agricultural ecology, Royal Vet. Ag. U., Denmark, \$23,000
- **Rotary Ambassorial Scholarship** **1999-2000**
To study agricultural ecology, Royal Vet. Ag. U., Denmark, \$23,000
- **Lande Summer Research Award, Swarthmore College** **1997, 1998**
For summer research on social behavior in halictid bees in Lakonia, Greece, and Rocky Mountain Biological Laboratory, Colorado, USA, \$6000

PUBLICATIONS AND PRESENTATIONS

Peer Reviewed Journal Articles

- Turner, T.L., Bourne, E.C., **von Wettberg, E.J.**, Hu, T.L., and Nuzhdin, S.V. 2010 in press. Population resequencing reveals local adaptation of *Arabidopsis lyrata* to serpentine soils. *Nature Genetics*. Available online January 2010, printed March 2010.
- Friesen, M.L*. and **von Wettberg, E.J.*** (2010) Adapting genomics to study the ecology and evolution of agricultural systems. *Current Opinion in Plant Biology*. [doi:10.1016/j.pbi.2009.11.003](https://doi.org/10.1016/j.pbi.2009.11.003)
- * Denotes equal contribution to the work
- Wright, J, and **von Wettberg, E.J.** (2009) Serpentinomics – an emerging field of study. *Northeastern Naturalist*. 16(Special Issue 5): 285-296
- Anten, N.P.R., **von Wettberg, E.J.**, Pawlowski, M., and Huber H. Interactive effects of spectral shading and mechanical stress on the expression and costs of shade avoidance. *American Naturalist*, in press.
- Turner T.L., **von Wettberg E.J.**, Nuzhdin S.V. (2008) Genomic analysis of differentiation between soil types reveals candidate genes for local adaptation in *Arabidopsis lyrata*. *PLoS ONE* 3(9): e3183.
doi:10.1371/journal.pone.0003183
- von Wettberg, E.J.** Remington, D.L. and Schmitt, J. 2008. Partitioning adaptation differentiation across a patchy landscape: Shade avoidance traits in *Impatiens capensis*. *Evolution*, 62, 654–667.
- Tabak, N., and **von Wettberg, E.J.**, 2008. Native and introduced *Impatiens* of the Northeast: parallel introductions and global spread of temperate jewelweeds. *Northeastern Naturalist*, 15: 159-176.
- von Wettberg, E.J.** and Schmitt, J. 2005. An experimental separation of stem and leaf shade avoidance responses in *Impatiens capensis*. *American Journal of Botany*, 92: 868-874.
- von Wettberg, E.J.** Huber, H. and Schmitt, J. 2005. Interacting effects of microsite quality, plasticity, and dispersal distance from the parental site on fitness in a natural population of *Impatiens capensis*. *Evolutionary Ecology Research*. 7: 531-548
- * Gravuer, K. **von Wettberg, E.J.** and Schmitt, J. 2005. Population differentiation and genetic variation inform translocation decisions for *Liatris scariosa* var. *novae-angliae*, a rare New England grassland

perennial. *Biological Conservation*, 124: 155-167.

* Undergraduate mentored publication

von Wettberg, E.J. and Weiner, J. 2004. Effects of distance to crop rows and to conspecific neighbours on the Size of *Brassica napus* and *Veronica persica* weeds. *Basic and Applied Ecology*, 5: 34-41.

Huber, H. Kane, N. Heschel, M.S. **von Wettberg, E.J.** Banta, J. Leuck A. and Schmitt, J. 2004. Frequency and microenvironmental pattern of selection on plastic shade avoidance traits in a natural population of *Impatiens capensis*. *American Naturalist*, 163: 548-563.

von Wettberg, E.J. and Weiner, J. 2003. Nutrient heterogeneity does not make belowground competition size-asymmetric in glasshouse populations of *Triticum aestivum*. *Plant Ecology*. 169: 85-92.

Richards, M. H. **von Wettberg, E.J.** and Rutgers A. 2003. A novel social polymorphism in a primitively eusocial Hymenopteran. *Proceedings of the National Academy of Science USA*, 100: 7175-7180.

* Gravuer, K. **von Wettberg, E.J.** and Schmitt, J. 2003. Dispersal biology of *Liatris scariosa* var. *novae-angliae* (Asteraceae), a rare New England grassland perennial. *American Journal of Botany*. 90: 1159-1167.

* Undergraduate mentored publication

Natural History and Educational Materials

von Wettberg, E.J. 2004. Transvestism of the Land. *Watersheds*. 2: 24-26.

von Wettberg, E.J. 2001. Muskrat Ramble. *The New York State Conservationist* 56: 8-10.

von Wettberg, E.J. 2001. A Guided Tour of the Madison Lane Wetland. A pamphlet printed by the Madison Lane Landtrust, Hamilton, N.Y., USA.

Selected Invited Seminars

What we wish we knew as undergraduates. Evolution Meeting, Fairbanks, Alaska, 2005. Co-presented with Dr. Johanna Schmitt.

Population differentiation in shade avoidance in *Impatiens capensis*. ESA/Intercol organized session, Montreal, Canada, 2005.

Shade avoidance and high irradiance responses in *Impatiens capensis*, Utrecht University, the Netherlands, 2004.

TEACHING

Teaching Assistant

- *Ecology*, Ecology and Evolution, Brown University **Spring 2004**
- *Seed Plant Diversity*, Ecology and Evolution, Brown University **Fall 2002 - 2003**
- *Insect Biology*, Ecology and Evolution, Brown University **Spring 2002**
- *Evolution*, Ecology and Evolution, Brown University **Fall 2001**
- *Introductory Biology*, Biology Department, Swarthmore College **1997-1998**

Natural History Teaching

- Naturalist Intern, New York State DEM **Spring 2001**

Pedagogical Training

- *Laboratory Management Institute Fellow* **2007-2008**

Program in management, leadership and career development for selected postdoctoral scholars by UC Davis Office of Research

- *Responsible Conduct of Research Program* **2007-2008**

Office of Research, University of California, Davis

- *Teaching Certificate Program and Consultant Training* **2003-2006**

The Harriet W. Sheridan Center for Teaching and Learning, Brown University

- *Writing Associate and Tutor* **1997-1998**

Writing Program, Swarthmore College

PROFESSIONAL ACTIVITIES AND COMMITTEES

Editor: Guest Editor, *Northeastern Naturalist* (2008-2009)

Reviewer, past 5 years: NSF Population Biology Panel, Ad Hoc Reviewer, RI Ag. Expt. Sta. Ad Hoc Reviewer, *Mol. Ecol.*, *J. Biogeography*, *Evol. Ecol.*, *Cons. Gen.*, *Maydica*, *Ann. Bot.*, *The Ecology of Seedlings*, eds. M. Leck et al., *Biol. Cons.*, *Can. J. Bot.*, *Plant Biol.*, *Atlantic Coastal Ecology*, ed. M. Bertness, *Am. J. Bot.*, *Plant Ecol.*, *New Phyt.*, *Biol. Let. R. Soc.*, *Oecologia*, *Ecol. Apps.* *New York Acad. Sci.*

Rhode Island Invasive Species Council **2005-2006**

Participated in updating the invasive species watch list for Rhode Island.

Rhode Island Plant Conservation Task Force **2002-2006**

Prioritized rare plant species for conservation efforts and assisted with surveys of rare species populations in Rhode Island.

Nantucket Conservation Foundation **2002-2006**

Consultant for rare plant population biology and collaborator on Eastern Silvery Aster conservation efforts.