

Jennifer L. Williams

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EDUCATION

Ph.D. in Organismal Biology and Ecology, May 2008, *University of Montana*

B.A. in Integrative Biology, *Highest Honors*, May 2000, *University of California, Berkeley*

PROFESSIONAL POSITIONS

Assistant Professor (January 2013-present)

University of British Columbia, Department of Geography and Biodiversity Research Centre

Postdoctoral Associate (October 2011-November 2012)

Swiss Federal Institute of Technology (ETH Zurich), Institute of Integrative Biology (Advisor: Jonathan Levine)

Postdoctoral Fellow (December 2008-October 2011)

National Center for Ecological Analysis and Synthesis, Santa Barbara, CA

Postdoctoral Associate (May 2008-October 2008)

University of Montana, Missoula, MT, Dept. of Ecosystem and Conservation Sciences

GRANTS AND FELLOWSHIPS

Canadian Foundation of Innovation (CFI) Leadership Opportunity Fund, 2014 – 2017 (\$124,261)

British Columbia Knowledge Development Fund (BCKDF), 2014 – 2017 (\$124,261)

National Sciences and Engineering Research Council (NSERC) Discovery Grant, 2013 – 2019 (\$162,000)

Swiss National Science Foundation, co-authored with Jonathan Levine, though only he held official PI status (\$600,000)

Postdoctoral Fellowship, *National Center for Ecological Analysis and Synthesis*, 2008 -2011 (\$150,000)

NSF Doctoral Dissertation Improvement Grant, 2005-2007 (\$12,000)

Bertha Morton Fellowship, *University of Montana*, 2006-2007 (\$3000)

Grant-in-Aid of Research, *Sigma Xi*, 2007 (\$400)

Graduate Council Research Award, *University of Montana*, 2007 (\$500)

Graduate Travel Award, *University of Montana*, 2007 (\$200)

NSF Graduate Research Fellowship, 2001-2006 (\$110,500)

Besancon Fellowship, *University of Montana*, 2002-2003 (\$14,000)

Graduate Travel Grant, *Invasive Plants in Natural and Managed Systems Conference*, 2003 (\$500)

Gompertz Fellowship, *UC Berkeley, Department of Integrative Biology*, 2000 (\$3500)

California Alumni Leadership Scholarship, *UC Berkeley*, 1996-2000 (\$10,000)

Howard Hughes Biology Fellows Grant, *UC Berkeley*, 1999 (\$3500)

NSF REU Fellowship, *Kellogg Biological Station, Michigan State University*, 1998 (\$3500)

PUBLICATIONS

Journal Articles (underlined authors were supervised students)

- Trowbridge, C. C., A. Stanley, T. N. Kaye, P. Dunwiddie and **J. L. Williams**. *Forthcoming*. Long-term effects of prairie restoration on plant community structure and native population dynamics. *Restoration Ecology*.
- Sargent, R, A. L. Angert and **J. L. Williams**. *Forthcoming*. When are species invasions useful for addressing fundamental questions in plant biology? *American Journal of Botany*.
- Williams, J. L.**, B. E. Kendall, and J. M. Levine. 2016. Rapid evolution accelerates plant population spread in fragmented experimental landscapes. *Science* 353: 482-485.
- Williams, J. L.**, R. E. Snyder, and J. M. Levine. 2016. The influence of evolution on population spread through patchy landscapes. *American Naturalist* 188: 15-26.
- Trowbridge, C. C., A. Stanley, T. N. Kaye, P. Dunwiddie and **J. L. Williams**. *In Press*. Long-term effects of prairie restoration on plant community structure and native population dynamics. *Restoration Ecology*.
- Williams, J. L.**, H. Jacquemyn, B. Ochocki, R. Brys and T. E. X. Miller. 2015. Life history evolution under climate change and its influence on the population dynamics of a long-lived plant. *Journal of Ecology*, Invited Special Feature, 103: 798-808.
- Williams, J. L.** and L. Fishman. 2014. Genetic evidence for founder effects in the introduced range of houndstongue (*Cynoglossum officinale*). *Biological Invasions* 16: 205 - 216.
- Crone, E. E., M. M. Ellis, W. F. Morris, A. Stanley, T. Bell, P. Bierzychudek, J. Ehrlén, T. N. Kaye, T. M. Knight, P. Lesica, G. Oostermeijer, P. F. Quintana-Ascencio, T. Ticktin, T. Valverde, **J. L. Williams**, D. F. Doak, R. Ganesan, K. McEachern, A. S. Thorpe, E. S. Menges. 2013. Ability of matrix models to explain the past and predict the future of plant populations. *Conservation Biology* 27: 968 - 978.
- Williams, J. L.**, T. E. X. Miller and S. P. Ellner. 2012. Avoiding unintentional eviction from integral projection models. *Ecology* 93: 2008-2014.
- Miller, T. E. X., **J. L. Williams**, E. Jongejans, R. Brys and H. Jacquemyn. 2012. Evolutionary demography of iteroparous plants: incorporating non-lethal costs of reproduction into integral projection models. *Proceedings of the Royal Society B* 279: 2831-2840.
- Ellis, M. M., **J. L. Williams**, P. Lesica, T. Bell, P. Bierzychudek, M. Bowles, E. E. Crone, D. F. Doak, J. Ehrlén, A. Ellis-Adam, K. McEachern, R. Ganesan, P. Latham, S. Luijten, T. N. Kaye, T. M. Knight, E. S. Menges, W. F. Morris, H. den Nijs, G. Oostermeijer, P. F. Quintana-Ascencio, J. S. Shelly, A. Stanley, A. Thorpe, T. Ticktin, T. Valverde, and C. W. Weekley. 2012. Matrix population models from 20 studies of perennial plant populations. *Ecology* 93: 951.
- Williams, J. L.**, M. M. Ellis, M. C. Bricker, J. F. Brodie, and E. W. Parsons. 2011. Distance to stable stage distribution in plant populations and implications for near-term population projections. *Journal of Ecology* 99: 1171-1178.
- Crone, E. E., E. S. Menges, M. M. Ellis, T. Bell, P. Bierzychudek, J. Ehrlén, T. N. Kaye, T. M. Knight, P. Lesica, W. F. Morris, G. Oostermeijer, P. F. Quintana-Ascencio, A. Stanley, T. Ticktin, T. Valverde, and **J. L. Williams**. 2011. How do plant ecologists use matrix population models? *Ecology Letters* 14: 1-8.

- Williams, J. L.,** H. Auge, and J. L. Maron. 2010. Impacts of herbivore escape and disturbance on exotic plant success: a biogeographical test. *Ecology* 91: 1355-1366.
- Maron, J. L, C. Horvitz, and **J. L. Williams**. 2010. Using experiments, demography and population models to estimate interaction strength based on transient and asymptotic dynamics. *Journal of Ecology* 298: 290-301.
- Williams, J. L.** 2009. Flowering life history strategies differ between the native and introduced ranges of a monocarpic perennial. *American Naturalist* 174: 660-672.
- Williams, J. L.,** H. Auge and J. L. Maron. 2008. Different gardens, different results: native and introduced populations exhibit contrasting phenotypes across common gardens. *Oecologia* 157: 239-248.
- Williams, J. L.** and E. E. Crone. 2006. Impacts of invasive grasses on the population growth of *Anemone patens*, a long-lived forb. *Ecology* 87: 3200-3208.
- Williams, J. L.** and J. M. Levine. 2004. Small-scale variation in growing season length affects size structure of scarlet monkeyflower. *Oikos* 106: 131-137.
- Williams, J. L.** 2002. The effects of a tropical freshwater shrimp on leaf litter decomposition. *Biotropica* 34: 616-619.
- Williams, J. L.** and J. K. Conner. 2001. Sources of phenotypic variation in floral traits in wild radish, *Raphanus raphanistrum* (Brassicaceae). *American Journal of Botany* 88: 1577-1581.

AWARDS

- Early Career Fellow, Ecological Society of America, 2017 – 2022
- George Mercer Award from the Ecological Society of America, given annually to a researcher under 40 for an outstanding and recently-published ecological research paper, 2017
- Plant Population Ecology Postdoctoral Excellence Award, 2012, awarded by the Plant Population Ecology Section of the Ecological Society of America and the *Journal of Ecology*
- Murray F. Buell Award Honorable Mention and Rangeland Ecology Section best student oral presentation, *Ecological Society of America Annual meeting*, 2006
- University Medal Certificate of Distinction, *UC Berkeley*, awarded to the top five graduates for academics, research, and community service, 2000
- Joseph LeConte Award, *UC Berkeley*, for most outstanding Integrative Biology graduate, 2000

INVITED PRESENTATIONS (selected)

- SFU-UBC-UVic Ecology & Evolution Retreat, invited plenary speaker, Squamish, BC, 2016
- Biodiversity Research Seminar Series, *University of British Columbia*, 2014
- Department of Geography, *University of British Columbia*, 2012, 2014
- Institute for Integrative Biology, *ETH Zurich*, 2011
- Department of Botany & Plant Pathology, *Oregon State University*, 2011
- Center for Population Biology, *University of California, Davis*, 2011
- Departments of Zoology and Botany, *University of British Columbia*, 2011
- Department of Ecology & Evolutionary Biology, *University of Tennessee*, 2010
- Department of Ecology & Evolutionary Biology, *Rice University*, 2010
- Tyson Research Center, *Washington University*, 2010
- Department of Ecology, *Montana State University*, 2010

Ecolunch, *National Center for Ecological Analysis and Synthesis*, 2009
Annual Meeting of the Ecological Society of America, 2007, *invited symposium presentation*
Helmholtz Center for Environmental Research, Germany, 2007
Montana Weed Control Association Annual Convention, 2005

TEACHING EXPERIENCE AND TRAINING

Assistant Professor (2013 – present)

Department of Geography, University of British Columbia, Vancouver, BC

Courses taught: Geob 102: Climate & Ecosystems (Fall 2016, Spring 2017), Geob 207: Introduction to Biogeography (Fall 2014, 2015, 2016), Geog 310: Environment & Sustainability (Spring 2013, 2014, 2016), Geob 407: Advanced Vegetation Dynamics: Disturbance, Climate and Human impacts (Spring 2014, 2016, 2017)

Instructor, Short course on structured population modeling (October 2010)

National Center for Ecological Analysis and Synthesis, Santa Barbara, CA

Instructor, Short course on population modeling using integral projection models (July 2010)

Washington University, St. Louis, MO

Fellow, National Science Foundation (NSF) Faculty Institutes for Reforming Science Teaching (FIRST) IV (2009-2010), professional development program for improving teaching and learning in undergraduate biology courses

Lecturer & Co-Instructor, Introductory Ecology (Fall 2009)

University of California, Santa Barbara, Santa Barbara, CA (Mentor: Jonathan Levine)

Instructor, Listening to Ecology (for beginning graduate students) (2007-2008)

University of Montana, Missoula, MT

Teaching Assistant (2004 – 2008)

University of Montana, Missoula, MT

Courses taught: Botany (Spring 2007, 2008), Ecology (writing course) (Fall 2006, 2007), Genetics & Evolution (Spring 2005), Rocky Mountain Flora (Fall 2004)

AmeriCorps VISTA volunteer, Washington Reading Corps (2001-2002)

Bailey Gatzert Elementary School, Seattle, WA

Naturalist, Keewaydin Environmental Education Center, *Salisbury, VT* (2000-2001)

PROFESSIONAL SERVICE AND ACTIVITIES

Reviewer: *American Naturalist, Biological Conservation, Biological Invasions, BMC Ecology, Copeia, Diversity and Distributions, Ecography, Ecology, Ecology Letters, Elementa: Science of the Anthropocene, Forest Ecology and Management, Functional Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Journal of the Torrey Botanical Society, Methods in Ecology and Evolution, Nature Education Knowledge Project, New Phytologist, NSERC Discovery Grant, NSF DEB Population Biology, Oecologia, Oikos, Perspectives in Plant Ecology, Evolution and Systematics, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B*
Ecological Society of America Annual Meeting, *leader of organized oral session*, August 2017.
UBC Department of Geography Graduate Committee, 2013-present
UBC Department of Geography Head's Advisory Committee, 2014-2015

NCEAS working group, *invited participant*, "When are matrix models useful for management? An empirical test across plant populations", 2009-2011
NSF ADVANCE Workshop, *invited participant*, Rice University, 2009
President, OBE Graduate Student Organization, University of Montana, 2005-2006
Member: Ecological Society of America (since 2002), American Society of Naturalists (since 2004), Evolutionary Demography Society (since 2012), Canadian Society of Ecology and Evolution (since 2013)

OUTREACH AND COMMUNITY ACTIVITIES

Research presentation to Nature Vancouver community (Botany Section), March 2014
Poetry of Science, collaborative outreach, Santa Barbara, CA, 2009
Kids Do Ecology, taught ecology to 5th graders, Santa Barbara, CA, 2009, 2011
Judge, Buell Award, ESA meeting, Albuquerque, NM, 2009
Adult Supervisor, Annual Mt. Sentinel Weed Pull, Missoula, MT, 2007
Montana Weed Control Association Annual Convention research talk, 2005
Tutor, Paxson Elementary School, Missoula, MT, 2003
Tutor, High School Biology and 5th Grade, Berkeley Public Schools, CA, 1998-2000