

Daijiang Li

Curriculum Vitae

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Education

2011 – present, Ph.D. candidate, Department of Botany, University of Wisconsin-Madison

Committee: Donald M. Waller (chair), Ellen I. Damschen, Thomas J. Givnish, Bret R. Larget, Anthony R. Ives

Dissertation: Causes of long-term shifts in plant taxonomic, functional and phylogenetic composition in pine barrens of central Wisconsin. (Expected May 2016)

2013 – present, M.S. Biometry, Department of Statistics, University of Wisconsin-Madison

Thesis: Can functional traits explain phylogenetic community patterns? An empirical assessment using phylogenetic linear mixed models. (Expected May 2016)

2008 – 2011, M.S. Restoration Ecology, School of Life Science, Sun Yat-sen University, China

2004 – 2008, B.S. Ecology, School of Life Science, Yunnan University, China

Research Interests

Biodiversity (taxonomic, functional traits, and phylogenetic), Macroecology, Community Ecology, Global Change Biology, Computational Ecology, Ecological modeling, Statistics

Publications

Published

5. **Daijiang Li** and Donald Waller. Long-term shifts in the patterns and underlying processes of plant associations in Wisconsin forests. *In press, Global Ecology and Biogeography*
4. **Daijiang Li** and Donald Waller. (2015). Drivers of observed biotic homogenization in pine barrens of central Wisconsin. *Ecology*. 96:1030–1041
Media coverage: [University of Wisconsin-Madison News](#); also printed in [Science Daily](#), [Science blog](#), [UW college of letters and science News](#), etc.
3. **Daijiang Li**, Shaolin Peng, Baoming Chen. (2013). The effects of leaf litter evenness on decomposition depend on which plant functional group is dominant. *Plant and Soil*. 365:1-2, 255-266
2. Baoming Chen, Shaolin Peng, Carla M. D'Antonio, **Daijiang Li**, Wentao Ren. (2013). Non-Additive Effects on Decomposition from Mixing Litter of the Invasive *Mikania micrantha* H.B.K. with Native Plants. *PLoS ONE*. 8(6): e66289
1. Bosun Wang, Shaolin Peng, **Daijiang Li**, Ting Zhou. (2009). Research progress on *Merremia boissiana*. *Chinese Journal of Ecology*. 28 (11), 2360-2365

Manuscripts

4. **Daijiang Li**, Anthony Ives, Donald Waller. Can functional traits explain phylogenetic signal in the composition of a plant community? *In prep*
3. **Daijiang Li** and Donald Waller. Fire exclusion and climate change interact to affect long-term changes in functional composition. *In prep*
2. **Daijiang Li**. Long-term dynamics of phylogenetic community structure of pine barrens in central Wisconsin. *In analysis*
1. Jeremy Ash, **Daijiang Li**, Donald Waller. Predicting species-environmental relationships with functional traits for the understory flora of Wisconsin. *In analysis*

Awards and Grants

- 2015, Student Conference Presentation Grant, \$600. Graduate school, University of Wisconsin-Madison
- 2015, selected by the Early Career Centennial Mentoring Program (10 early career ecologists total), Ecological Society of America, Centennial Meeting, Baltimore, MD, USA. \$200
Webpage highlight: <http://esa.org/earlycareer/centennial-mentoring-program-at-esa100/>
- 2015, The Raper Conference Travel Support, \$400. Department of Botany, University of Wisconsin-Madison
- 2013 – 2014, The Flora Aeterna Research Grant, \$1,500. Department of Botany, University of Wisconsin-Madison
- 2012 – 2013, The Flora Aeterna Research Grant, \$5,000. Department of Botany, University of Wisconsin-Madison
- 2012 – 2013, Davis Research Grant, \$1,500. Department of Botany, University of Wisconsin-Madison
- 2013, First prize for excellent papers by graduate students, \$350, Hongda Zhang research fund, Sun Yat-sen University, China
- 2011, Second award for excellent graduate students, State Key Laboratory of Biocontrol, Sun Yat-sen University, China
- 2009, Excellent prize of presentation in English, Sun Yat-sen University, China
- 2008 – 2011, Education Scholarship for Graduate Student (Fellowship), Sun Yat-sen University, China
- 2008, Second Award of National Scholarship, Yunnan University, China
- 2006, 2007, Second Award of Donglu Scholarship, Yunnan University, China

Professional Experience

- 2014 – 2015, Graduate Student Research Assistant, Department of Botany, University of Wisconsin-Madison

- 2014 spring and summer, Statistical Consultant, College of Agriculture and Life Sciences Statistical Consulting Group, Department of Statistics, University of Wisconsin, Madison, WI
- 2012 – 2013, Graduate Student Teaching Assistant, Department of Botany, University of Wisconsin-Madison
- 2011 – 2012, Graduate Student Research Assistant, Department of Botany, University of Wisconsin-Madison
- 2010 July, Low Carbon Development Symposium of Guangzhou, Guangzhou, China
- 2009 Nov., 23rd New Phytologist Symposium: Carbon Cycling in Tropical Ecosystems, Guangzhou, China, Organized by New Phytologist Trust
- 2009 July, National Summer School of Biodiversity for Postgraduates & ACCENT (The European Network of Excellence in Atmospheric Composition Change) Workshop, Guangzhou, China
- 2008 – 2011, Graduate Student Research Assistant, School of Life Science, State Key Laboratory of Biocontrol, Sun Yat-sen University, China

Selected Presentations

- Daijiang Li**, Anthony Ives, Ricardo Kriebel, Ken Cameron, Ken Sytsma, Thomas Givnish, and Donald Waller, 2015 August, [Pine barrens in central Wisconsin still phylogenetically clustered after 54 years of fire suppression](#). *100th Ecological Society of America Annual Meeting*, Baltimore, Maryland, USA. (Oral presentation)
- Daijiang Li**, Donald Waller, 2014 August, [Increases in native, not exotic, species plus succession promote biotic homogenization in the sand plain plant communities of central Wisconsin](#). *99th Ecological Society of America Annual Meeting*, Sacramento, California, USA. (Oral presentation)
- Daijiang Li**, Donald Waller, 2014 March, Long-term dynamics in pine barrens of central Wisconsin. *Wisconsin Ecology Annual Spring Symposium*, Madison, Wisconsin. (Oral presentation)

Teaching Experience

- 2016 January 11-12, Helper, Data Carpentry Workshop, UW-Madison
- 2014 August 25-26, Co-instructor, Software Carpentry Bootcamp, UW-Madison
- taught scientists Bash scripting and version control with Git and Github
- 2013 Fall, 2012 Fall, Teaching Assistant, Vegetation of Wisconsin (Bot 455), UW-Madison
- provided suggestions and feedbacks for students' projects and reports
 - helped with Friday afternoon field trips
- 2013 Spring, Teaching Assistant, Introductory Biology (Bio 152), UW-Madison
- led discussion sections
 - provided suggestions and comments for students' projects

- co-designed and graded exams

2010 Fall, Teaching Assistant, Restoration Ecology, Sun Yat-sen University, China

- guest lectured
- led discussion sections
- designed and graded exams

Undergraduate Mentoring / Research Training

2014, Kelly Wallin, Prepare leaf samples for leaf nutrient analysis

2014, David Barfknecht, Collect and measure plant functional traits

2014, Madeline Grupper, Prepare leaf samples for leaf nutrient analysis

2013, Alex Arena, Collect and measure plant functional traits, plant identification

2013, Anna Francke, Research project: changes in overstory structure of pine barrens in Wisconsin from 1958 to 2012

Professional Service and Outreach

Manuscript reviewer for (certified review record available at

<https://publons.com/a/719613/>): *Global Ecology and Biogeography*, *Journal of Ecology*, *New Phytologist*, *Science*

2015. Ecology outreach with 3-5 year olds, “Week of the Young Child”. University of Wisconsin-Madison School of Human Ecology Pre-School Lab

2014. Ecology outreach events at Darwin Day. University of Wisconsin-Madison

2013 – 2014. Student representative of the Biology Colloquium Committee, Botany department, University of Wisconsin-Madison

2013 – 2014. Graduate student Committee, Botany department, University of Wisconsin-Madison

2013 Oct. 6-11. Volunteer of the fifth world conference on ecological restoration

2012 – 2013. Department Technical Committee, Botany department, University of Wisconsin-Madison

Professional Affiliations

Ecological Society of America (ESA)

Computational Skills

R, Matlab, Linux, Bash, Git, HTML/CSS, \LaTeX

References

Dr. Donald. M. Waller (PhD Advisor)
John T. Curtis Professor of Department of Botany
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Dr. Anthony R. Ives (Committee member)
Professor of Department of Zoology
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Dr. Ellen I. Damschen (Committee member)
Professor of Department of Zoology
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