

Daijiang Li

Curriculum Vitae

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Education

- 2011 – 2016, **Ph.D.** *Ecology*, 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: Long-term shifts in plant species and functional composition of central Wisconsin pine barrens
- 2013 – 2016, **M.S.** *Biometry*, Department of Statistics, University of Wisconsin–Madison
- 2008 – 2011, **M.S.** *Ecology*, School of Life Science, Sun Yat-sen University, China
- 2004 – 2008, **B.A.** *Ecology*, School of Life Science, Yunnan University, China

Professional Appointments

- 2016 - Present, Postdoctoral Researcher, University of Florida
- 2011 - 2016, Research Assistant, University of Wisconsin–Madison
- 2012 - 2014, Teaching Assistant, University of Wisconsin–Madison

Publications

Published or accepted

9. **Daijiang Li** and Anthony Ives. *in press*. The statistical need to include phylogeny in trait-based analyses of community composition. *Methods in Ecology and Evolution*.
8. **Daijiang Li** and Donald Waller. *in press*. Fire exclusion and climate change interact to affect long-term changes in the functional composition of plant communities. *Diversity and Distributions*.
7. **Daijiang Li**, Anthony Ives, and Donald Waller. (2017). Can functional traits account for phylogenetic signal in community composition? *New Phytologist*.
6. Kris Verheyen, Pieter De Frenne, ..., **Daijiang Li**, ..., Markus Bernhardt-Romermann. (2017). Combining biodiversity resurveys across regions to advance global change research. *BioScience*. 67: 73-83.
5. **Daijiang Li** and Donald Waller. (2016). Long-term shifts in the patterns and underlying processes of plant associations in Wisconsin forests. *Global Ecology and Biogeography*. 25: 516–526.
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

5. **Daijiang Li**, William B. Monahan, and Benjamin Baiser, Species-area and phylogenetic diversity-area relationships for native and non-native species in US national parks. *In prep.*
4. Pedro Albuquerque, Denis Ribeiro do Valle, and **Daijiang Li**, Bayesian LDA for categorical mixture model clustering. *In prep.*
3. **Daijiang Li** and Anthony Ives, How traits interacted with environmental changes to affect long-term dynamics of species abundances? *In prep.*
2. Jeremy Ash, **Daijiang Li**, Sarah Johnson, David Rogers, and Donald Waller. Do traits predict species-environment relationships among forest understory plants and how species have responded to environmental change? *In prep.*
1. Jeremy Ash, Sarah Johnson, **Daijiang Li**, David Rogers, Gregory Sonnier, and Donald Waller. Environmental filtering outweighs species' interactions in structuring spatial variation in understory plant communities *In prep.*

Awards and Grants

- 2016, Ton Damman Award for Best Oral Presentation, Ecological Society of America Vegetation Section, \$500 http://www.esa.org/vegetation2/?page_id=83
- 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

Teaching Experience

- 2016 Fall, Guest lecturer, Multivariate Statistics for the Life Sciences, University of Florida
- 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

Professional Experience

- 2014 – 2015, Graduate Student Research Assistant, Department of Botany, University of Wisconsin–Madison
- 2014, 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**, 2016 September, Long-term Community Dynamics of Pine Barrens in Central WI: Species, Functional Traits, and Phylogeny. *Wildlife Ecology and Conservation, University of Florida*, Gainesville, Florida. (Invited Oral presentation)
- Daijiang Li**, 2016 March, Long-term Community Dynamics of Pine Barrens in Central WI: Species, Functional Traits, and Phylogeny. *Department of Botany, University of Wisconsin–Madison*, Madison, Wisconsin. (Oral presentation)
- Jeremy Ash, **Daijiang Li**, Sarah Johnson, David Rogers, and Donald Waller, 2015 December, [Predicting species-environment relationships with functional traits for the understory flora of Wisconsin](#). *American Geophysical Union*, San Francisco, California. (Post)
- 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. (Oral presentation; won the best oral presentation award from the Vegetation section of ESA)
- 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. (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)

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/>):

Ecology Letters, Global Ecology and Biogeography, Journal of Applied Ecology, Journal of Ecology, Nature Scientific Reports, New Phytologist, Plos One, 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, L^AT_EX

References

Dr. Donald. M. Waller (PhD Advisor)
John T. Curtis Professor of Department of Botany
University of Wisconsin–Madison,
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Madison, WI 53706
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Dr. Anthony R. Ives (Committee member)
Professor of Department of Zoology
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Dr. Benjamin Baiser (Postdoc advisor)
Assistant Professor of Department of Wildlife Ecology and Conservation
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Additional references available upon request.