

## DANIEL J. MCGLINN

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Postdoctoral Researcher  
Biology Department, Utah State University  
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### EDUCATION

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**Doctor of Philosophy**, Plant Sciences 2004-2009  
Oklahoma State University, advisor: Michael W. Palmer Stillwater, OK

**Bachelor of Science**, Biology with Honors 2000-2004  
University of North Carolina, advisor: Robert K. Peet Chapel Hill, NC

**Other Training**

Maximum likelihood analysis in ecology 2007  
Kellogg Biological Station Hickory Corners, MI

### PROFESSIONAL EXPERIENCE

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*Postdoctoral Researcher*, Utah State University 2011-  
*Postdoctoral Researcher*, University of North Carolina 2009-2011  
*Teaching Assistant*, Oklahoma State University, Plant Biology L 2008-2009  
*EPA GRO Research Fellow*, Oklahoma State University 2005-2008  
*Teaching Assistant*, Oklahoma State University, General Ecology L 2004-2005

### FUNDING & ACADEMIC AWARDS

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*Distinguished Graduate Fellowship* 2008-2009  
Oklahoma State University, \$1,000

*Greater Research Opportunities Fellowship* 2005-2008  
Environmental Protection Agency, \$100,000

*Enhancing Linkages between Mathematics & Ecology Scholarship* 2007  
Michigan State University, \$500

*Audubon Award* 2005  
Payne County Audubon Society, \$300

*LeClair Award, Academic Excellence in Plant Science* 2004  
University of North Carolina Biology Department

*Undergraduate Research Fellowship* 2003  
The Smallwood Foundation, \$2,000

*Research Experience for Undergraduate Fellowship* 2003  
National Science Foundation

**PUBLICATIONS**

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- Cornwell, W.K., M. Westoby, D.S. Falster, R.G. FitzJohn, B.C. O'Meara, **D.J. McGlinn**, and 21 other authors. *accepted*. Functional distinctiveness of major plant lineages. *Journal of Ecology*.
- Palmer, M. W. and **D.J. McGlinn**. *in press*. Scale detection using semivariograms and autocorrelograms. in S. E. Gergel and M. G. Turner, editors. *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. 2<sup>nd</sup> edition.
- Zanne, A. D.C. Tank, W.K. Cornwell, **D.J. McGlinn**, and 23 other authors. *online early*. Into the cold - three keys to radiation of angiosperms into freezing environments. *Nature*.
- McGlinn, D.J.**, X. Xiao, and E.P. White. 2013. An empirical evaluation of four variants of a universal species-area relationship. *PeerJ*. 1: e212.
- White, E.P., E. Baldrige, Z.T. Brym, K.J. Locey, **D.J. McGlinn**, and S.R. Supp. 2013. Nine simple ways to make it easier to (re)use your data. *Ideas in Ecology and Evolution*. 6: 1-10.
- McGlinn, D.J.** and A.H. Hurlbert. 2012. Scale dependence in species turnover reflects variance in species occupancy. *Ecology*. 93: 294-302
- Scheiner, S.M., A. Chiarucci, G.A. Fox, M.R. Helmus, **D.J. McGlinn**, and M.R. Willig. 2011. The underpinnings of the relationship between space, time, and species richness. *Ecological Monographs*. 81: 195-213
- Rocchini, D., **D.J. McGlinn**, C. Ricotta, M. Neteler, T. Wohlgemuth. 2011. Topographic complexity and spatial scale influence the relationship between spectral diversity and plant species richness. *Journal of Vegetation Science*. 22: 688-698.
- McGlinn, D.J.** and M.W. Palmer. 2011. Quantifying the influence of environmental texture on the rate of species turnover – evidence from two habitats. *Plant Ecology*. 212: 495-506.
- McGlinn, D.J.**, P.G. Earls, and M.W. Palmer. 2010. A twelve-year study on the scaling of vascular plant composition in an Oklahoma Tallgrass Prairie. *Ecology*. 91: 1872.
- McGlinn, D.J.**, R.J. Churchill, and M.W. Palmer. 2010. Effects of a tornado on a Cross Timbers bird community. *The Southwestern Naturalist*. 55: 460-466.
- McGlinn, D.J.** and M.W. Palmer. 2010. Spatial structure alters the shape of the unimodal species richness-biomass relationship in a neutral model. *Diversity*. 2:550-560.
- McGlinn, D.J.** and M.W. Palmer. 2009. Modeling the sampling effect in the species-time-area relationship. *Ecology*. 90:836-846.
- Palmer, M.W., **D.J. McGlinn**, and J.F. Fridley. 2008. Artifacts and artificions in biodiversity research. *Folia Geobotanica*. 43:245-257.
- Palmer, M.W., **D.J. McGlinn**, L. Westerberg, and P. Milberg. 2008. Indices for detecting changes in species composition: some simplifications. *Ecology*. 89:1769-1771.

**PUBLICATIONS (CONTINUED)**

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Appelquist, W.L., **D.J. McGlinn**, M. Miller, Q.G. Long, and J.S. Miller. 2007. How well do herbarium data predict the location of present populations? A test using *Echinacea* species in Missouri. *Biodiversity and Conservation*. 16:1397-1407.

**MANUSCRIPTS**

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**McGlinn, D.J.** and M.W. Palmer. *in review*. Examining the foundations of heterogeneity-based management for promoting plant diversity in a disturbance-prone ecosystem. *PNAS*.

Xiao, X. **D.J. McGlinn**, and E.P. White. *in review*. A strong test of the Maximum Entropy Theory of Ecology. *American Naturalist*.

Thapa, V.T., **D.J. McGlinn**, P.W. Palmer, and U. Melcher. *in review*. Determinants of composition of plant viruses at the Nature Conservancy's Tallgrass Prairie Preserve, Oklahoma. *Molecular Ecology*.

Locey, K. and **D.J. McGlinn**. *in review*. Efficient algorithms for sampling feasible sets of ecological patterns of abundance. *Methods in Ecology and Evolution*.

**McGlinn, D.J.** and A.H. Hurlbert. *in prep*. Disentangling components of spatial community variation reveals processes driving community assembly.

**McGlinn, D.J.** and E.P. White. *in prep*. Multiscale models help to explain geographic variation in the species abundance distribution.

**NON-PEER REVIEWED PUBLICATIONS**

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**McGlinn, D.J.** 2012. Dictionaries are a scientist's friend. Software Carpentry Blog.

Gilmore, M.J. and **D.J. McGlinn**. 2008. General Biology Lab Manual. Northern Oklahoma College.

**McGlinn, D.J.** 2007. New species discovered. The Docent News of the Tallgrass Prairie Preserve. The Nature Conservancy. July edition.

**SOFTWARE PRODUCTS**

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**McGlinn, D.J.** Vario: community variograms and associated null models. github.  
<https://github.com/dmcglinn/vario>

Chamberlain, S., C. Boettiger, K. Ram, V. Barve, **D.J. McGlinn**. rGBIF: Interface to the Global Biodiversity Information Facility API methods. github.  
<https://github.com/ropensci/rgbif/tree/newapi>

E.P. White, **D.J. McGlinn**, X. Xiao, S. Supp, K. Thibaut. Software for Analyzing Harte et al.'s Maximum Entropy Theory of Ecology. figshare. <http://dx.doi.org/10.6084/m9.figshare.815905>

K. Locey, **D.J. McGlinn**. Partitions: code for integer partitioning. github.  
<https://github.com/klocey/partitions>

**TEACHING EXPERIENCE**

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<i>Lecturer, Community Assembly, Utah State University</i>	2013
<i>Organizer and Lecturer, Software Carpentry Bootcamp, Utah State University</i>	2013
<i>Guest Lecturer, Macroecology, Utah State University</i>	2012
<i>Guest Lecturer, Advanced Programming for Biologists, Utah State University</i>	2012
<i>Guest Lecturer, Introduction to Programming for Biologists, Utah State University</i>	2012
<i>Lecturer, Advanced Modeling for Biologists using R, University of North Carolina</i>	2011
<i>Guest Natural Historian, Avian Biology, University of North Carolina</i>	2009-2010
<i>Teaching Assistant, Plant Biology Lab, Oklahoma State University</i>	2008-2009
<i>Guest Lecturer, Multivariate Methods for Community Ecology, Oklahoma State University</i>	2007
<i>Guest Lecturer, Introductory Biology Lecture and Lab, Northern Oklahoma College</i>	2007-2009
<i>Teaching Assistant, General Ecology Lab, Oklahoma State University</i>	2004-2005
<i>Guest Lecturer, General Ecology, Oklahoma State University</i>	2004-2009

**PRESENTATIONS**

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<b>McGlinn, D.J.</b> and E.P. White. Ecological Society of America. Minneapolis, MN.	2013
<b>McGlinn, D.J.</b> and E.P. White. Gordon Research Conference. Biddeford, ME.	2012
<b>McGlinn, D.J.</b> and A.H. Hurlbert. Ecological Society of America. Austin, TX.	2011
<b>McGlinn, D.J.</b> and A.H. Hurlbert. Ecological Society of America. Pittsburgh, PA.	2010
<b>McGlinn, D.J.</b> Lunch Bunch Seminar Series. University of North Carolina.	2010
<b>McGlinn, D.J.</b> Botany Department Seminar Series. Oklahoma State University.	2009
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. Milwaukee, WI	2008
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. San Jose, CA.	2007
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. Memphis, TN.	2006
<b>McGlinn, D.J.</b> Multivariate methods in community ecology. Oklahoma State University.	2005
<b>McGlinn, D.J.</b> Southwestern Association of Naturalists. Huntsville, TX.	2005

**INVITED SEMINARS**

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University of North Carolina. Curriculum for the Environment and Ecology.	2010
East Carolina University. Biology Department	2010
Appalachian State University. Biology Department	2009
University of New Mexico. James H Brown's Macroecology Lab	2005

**INVITED WORKSHOPS**

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<i>Scaling UP: Population and Community Ecology. A Workshop for Early Career Scientists.</i> Ecological Society of America. Organizers: D. Goldberg, M. Fitzpatrick, J. Franklin, R. Guralnick, and K. Suding,	2013
<i>Tempo and mode of plant trait evolution: synthesizing data from extant and extinct taxa.</i> National Evolutionary Synthesis Center. Organizers: A. Zanne, S. Smith, and W. Cornwell.	2011-2013

**COMMUNITY OUTREACH AND NEWS COVERAGE**

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Logan Nerd Night. <i>Deciphering Universal Patterns of Biodiversity.</i>	2013
Utah Public Radio. Zesty Garden. <i>How Flowering Plants Adapted to Cold.</i>	2013
Utah Public Radio. Access Utah. <i>'Plants Evolve For Colder Temperatures: Evolution.</i>	2013
Utah State Today. <i>'How Do Plants Survive in a Winter Wonderland?' asks USU Ecologist.</i>	2013
Standard-Examiner. <i>How Did Plants Live When Earth Went Cold?</i>	2013
<i>Effects of a tornado on a Cross Timbers bird community.</i> Payne County Audubon	2007

**PROFESSIONAL AND COMMUNITY SERVICE**

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Reviewer for <i>Bioscience</i> <i>Community Ecology</i> <i>Ecography</i> <i>Ecology Letters</i>	<i>Journal of Vegetation Science</i> <i>Journal of Biogeography</i> <i>Proceedings of the Royal Society B</i> <i>Rangeland Ecology and Management</i>	
<i>President &amp; Treasurer</i> – Oklahoma State University Botanical Society		2005-2008
<i>Bioblitz Group Leader</i> – Oklahoma's Rapid Biodiversity Inventory		2006-2008
<i>Floristics Trip Leader</i> – Oklahoma Academy of Sciences Field Meetings		2005-2008