

## Curriculum vitae

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### Education

2007 Ph.D. Ecology and Evolutionary Biology, Princeton University  
2000 M.S. Zoology (Statistics minor), North Carolina State University  
1995 B.A. Liberal Arts Honors Program, University of Texas at Austin

### Professional experience

2007- Postdoctoral Research Fellow, Princeton University, Department of Ecology and Evolutionary Biology  
2003, 2005 Graduate Teaching Assistant, Princeton University, Department of Ecology and Evolutionary Biology  
1997-1998 Graduate Teaching Assistant, North Carolina State University, Department of Zoology  
1993-1997 Research Technician, University of Texas at Austin, Department of Zoology

### Major awards

2006-2007 Princeton University Honorific Fellowship  
2002-2007 Princeton University Centennial Fellowship in Sciences and Engineering  
2000-2001 Fulbright Scholarship, Argentina  
1998-2000 National Science Foundation Graduate Research Fellowship

### Research and teaching interests

Global change biology, climate-vegetation feedbacks, forest ecology and management, population and community ecology, biodiversity, Bayesian and likelihood methods

### Publications

**Lichstein, J.W.**, J. Dushoff, K. Ogle, A. Chen, D.W. Purves, J.P. Caspersen, and S.W. Pacala. 2009. Unlocking the forest inventory data: relating individual-tree performance to unmeasured environmental factors. *Ecological Applications* *in press*

Chisholm, R.A, and **J.W. Lichstein**. 2009. Linking dispersal, immigration and scale in the neutral theory of biodiversity. *Ecology Letters* *in press*

**Lichstein, J.W.**, C. Wirth, H.S. Horn, and S.W. Pacala. 2009. Biomass chronosequences of United States forests: implications for carbon storage and forest management. Pages 301-341 *in* C. Wirth, G. Gleixner, and M. Heimann, eds. *Old-growth forests: function, fate and value*. Ecological Studies vol. 207, Springer-Verlag, Berlin, Heidelberg.

Wirth, C. and **J.W. Lichstein**. 2009. The imprint of succession on old-growth forest carbon balances: insights from a trait-based model of forest dynamics. Pages 81-113 *in* C. Wirth, G. Gleixner, and M. Heimann, eds. *Old-growth forests: function, fate and value*. Ecological Studies, Springer, Berlin, Heidelberg.

- Purves, D.W., **J.W. Lichstein**, N. Strigul, and S.W. Pacala. 2008. Predicting and understanding forest dynamics using a simple, tractable model. *PNAS* 105(44):17018-17022.
- Wirth C., **J.W. Lichstein**, J. Dushoff, A. Chen, and F.S. Chapin III. 2008. White spruce meets black spruce: dispersal, postfire establishment, and growth in a warming climate. *Ecological Monographs* 78(4):489-505.
- Lichstein, J.W.**, J. Dushoff, S.A. Levin, and S.W. Pacala. 2007. Intraspecific variation and species coexistence. *American Naturalist* 170(6):807-818.
- Purves, D.W., **J.W. Lichstein**, and S.W. Pacala. 2007. Crown plasticity and competition for canopy space: a new spatially implicit model parameterized for 250 North American tree species. *PLoS ONE* 2(9):e870.
- Lichstein, J.W.** 2007. Multiple regression on distance matrices: a multivariate spatial analysis tool. *Plant Ecology* 188(2):117-131.
- Jetz, W., C. Rahbek, and **J.W. Lichstein**. 2005. Local and global approaches to spatial data analysis in ecology. *Global Ecology and Biogeography*, 14(1): 97-98.
- Roy, S.B., P.D. Walsh, and **J.W. Lichstein**. 2005. Can logging in equatorial Africa affect adjacent parks? *Ecology and Society* 10(1):article 6.
- Lichstein, J.W.**, H.R. Grau, and R. Aragón. 2004. Recruitment limitation in secondary forests dominated by an exotic tree. *Journal of Vegetation Science* 15(6):721-728.
- Lichstein, J.W.**, T.R. Simons, and K.E. Franzreb. 2002. Landscape effects on breeding songbird abundance in managed forests. *Ecological Applications* 12(3):836-857.
- Lichstein, J.W.**, T.R. Simons, S.A. Shriner, and K.E. Franzreb. 2002. Spatial autocorrelation and autoregressive models in ecology. *Ecological Monographs* 72(3):445-463.
- Lichstein, J.W.**, M.L. Ballinger, A.R. Blanchette, H.M. Fishman, and G.D. Bittner. 2000. Structural changes at cut ends of earthworm giant axons in the interval between dye barrier formation and neuritic outgrowth. *Journal of Comparative Neurology* 416(2):143-157.

### **Manuscripts in review**

- Malizia, A., H.R. Grau, and **J.W. Lichstein**. Soil phosphorus and disturbance control liana communities in a subtropical montane forest. *Journal of Vegetation Science*

### **Service**

Reviewer for journals: *Biodiversity and Conservation*, *Diversity and Distributions*, *Ecography*, *Ecological Applications*, *Ecology*, *Ecology Letters*, *Ecosystems*, *Global Ecology and Biogeography*, *Journal of Biogeography*, *Journal of Applied Ecology*, *Journal of Vegetation Science*, *Landscape Ecology*, *Oikos*, *PNAS*

Reviewer for grant agencies: NSF, NOAA

Reviewer for U.S. National Park Service, Forest Health Monitoring Protocol

### **Other awards, activities**

- 2008            Designed and taught one-week field course in Panama for Princeton undergrads (with Dr. Stephanie Bohlman): Ecology and conservation of tropical dry forests

Jeremy Lichstein, curriculum vitae

- 2004, 2006 Association of Princeton Graduate Alumni Summer Travel Fellowship  
2000 Organization for Tropical Studies, Tropical Biology course, Costa Rica  
2000 Marcia Brady Tucker Travel Award, American Ornithologists' Union  
1997-1999 Andrews Graduate Fellowship, North Carolina State University  
1994- Phi Beta Kappa  
1994 Howard Hughes Fellowship, Summer Undergraduate Research Program in  
Molecular Biology, University of Texas at Austin  
1992-1995 Plan II Honors Program, University of Texas at Austin, College of Liberal  
Arts  
1991-1995 Dean's Scholars Program, University of Texas at Austin, College of  
Natural Sciences  
1991-1995 Dedman Scholarship, University of Texas at Austin  
1991 National Merit Scholar

**Presentations at national conferences** (only first-authored presentations are listed)

- Lichstein, J.W., E. Shevliakova, S. Malyshev, Y. Pan, R.A. Birdsey, and S.W. Pacala.  
2008. Temperature sensitivity of forest biomass and productivity: comparing the  
GFDL-LM3V land model to FIA data. Forest Inventory and Analysis Symposium,  
Park City, Utah.
- Lichstein, J.W., S.W. Pacala, D.W. Purves, J. Dushoff, and K. Ogle. 2006. A resource-  
based neighborhood competition model of sapling growth. Ecological Society of  
America, Memphis, Tennessee.
- Lichstein, J.W., S.W. Pacala, D.W. Purves, J.P. Caspersen, and K. Ogle. 2004.  
Parameterizing sapling growth-light models from forest inventory data. Ecological  
Society of America, Portland, Oregon.
- Lichstein, J.W. 2000. Autoregressive models of songbird habitat use in managed southern  
Appalachian forests: landscape effects and spatial autocorrelation. American and  
British Ornithologists' Unions, St. John's, Newfoundland.
- Lichstein, J.W., T.R. Simons, and K.E. Franzreb. 2000. Comparison of normal, Poisson,  
and negative binomial regression models for analyzing count data: an example with  
southern Appalachian songbirds. American and British Ornithologists' Unions, St.  
John's, Newfoundland.
- Lichstein, J.W., T.R. Simons, and K.E. Franzreb. 1999. A multi-scale assessment of the  
effects of landscape composition on breeding birds in southern Appalachian forests.  
Predicting species occurrences: issues of scale and accuracy. Snowbird, Utah.
- Lichstein, J.W., T.R. Simons, and K.E. Franzreb. 1998. Patterns of breeding bird  
diversity and abundance across land use gradients in the southern Appalachians.  
North American Ornithological Conference, St. Louis, Missouri.