

## Lauren B. Buckley

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PERSONAL	University of North Carolina at Chapel Hill, Department of Biology CB 3280, Coker Hall                      buckley@bio.unc.edu, (919)843-8732 Chapel Hill, NC 27516                      http://www.biology.unc.edu/Faculty/Buckley/Lab/		
EDUCATION	<b>Stanford University</b> , Department of Biological Sciences, Stanford, CA USA Ph.D. Biology, September 2001 - September 2005 <ul style="list-style-type: none"> <li>• Dissertation: Lizards distributions on islands: community ecology and biogeography</li> <li>• Committee: Joan Roughgarden (chair), Paul Ehrlich, Terry Root, and Peter Vitousek</li> </ul> <b>Williams College</b> , Williamstown, MA USA B.A. Biology (honors), B.A. Mathematics, June 2000		
PROFESSIONAL EXPERIENCE	<i>Assistant Professor.</i> Department of Biology, University of North Carolina Chapel Hill <i>Postdoctoral Fellow.</i> National Center for Ecological Analysis and Synthesis <i>Postdoctoral Fellow.</i> The Santa Fe Institute <i>Visiting Scholar.</i> University of California, San Diego. Host: Walter Jetz	01/2009 - 11/2007 - 12/2008 10/2005 - 10/2007 10/2005 - 10/2007	
HONORS	NCEAS Postdoctoral Fellowship Santa Fe Institute Postdoctoral Fellowship Stanford Department of Biological Sciences Excellence in Teaching Award Best Student Poster Award, Society for Conservation Biology Annual Meeting NSF Predoctoral Research Fellowship NSF REU, Rocky Mountain Biology Laboratory. Mentor: Neo Martinez NSF REU, Wellesley College. Mentor: Martina Koniger	2007 2005-2007 2002 2000 2001-2004 1999 1998	
REFEREED JOURNAL PUBLICATIONS	Buckley L. B. and Jetz W. 2009. Lizard community structure along environmental gradients. <i>Journal of Animal Ecology</i> in press.  Buckley L.J. and Buckley L.B. 2009. Toward linking ocean models to fish population dynamics. <i>Progress in Oceanography</i> doi: 10.1016/j.pocean.2009.09.009.  Buckley L. B. and Jetz W. 2008. Linking turnover of species and environments. <i>Proceedings of the National Academy of Science</i> 105: 17836-17841. (Covered by <i>Environmental Research Web</i> , <i>Scientific American</i> , et al.)  Buckley L. B. 2008. Linking traits to energetics and population dynamics to predict lizard ranges in changing environments. <i>American Naturalist</i> 171:E1-E19.  Buckley L. B., Rodda G.H., and Jetz W. 2008. Thermal and energetic constraints on ectotherm abundance: a global test using lizards. <i>Ecology</i> 89:48-55.  Buckley L. B. and Jetz W. 2007. Insularity and the determinants of lizard population density. <i>Ecology Letters</i> 10:481-489. (Covered by <i>Conservation Magazine</i> , <i>Science Daily</i> , <i>United Press International</i> , et al.)  Buckley L. B. and Jetz W. 2007. Environmental and historical constraints on global patterns of amphibian richness. <i>Proceedings of the Royal Society B</i> 274:1167-1173.		

Buckley L. B. and Roughgarden J. 2006. Climate, competition, and the coexistence of island lizards. *Functional Ecology* 20: 315-322.

Buckley L. B. and Roughgarden J. 2006. A hump-shaped density-area relationship for island lizards. *Oikos* 113: 243-250.

Buckley L. B. and Roughgarden J. 2005. Effect of species interactions on landscape abundance patterns. *Journal of Animal Ecology* 74:1182-1194. (JAE highlighted article)

Buckley L. B. and Roughgarden J. 2005. Lizard habitat partitioning on islands: the interaction of local and landscape scales. *Journal of Biogeography* 32: 2113-2121. (cover article)

Buckley L. B. and Roughgarden J. 2004. Biodiversity conservation: effects of changes in climate and land use. *Nature* 430: 1 (doi:10.1038/nature02717).

#### INVITED PRESENTATIONS

University of North Carolina, Curriculum in Ecology, April 2009

Duke University, Graduate Program in Ecology, January 2009

Society for Advancement of Chicanos and Native Americans in Science Annual Meeting, October 2008

Organized oral session "Grinnellian Niches or Just Statistical Correlates? Opportunities for Ecological Inference From Species Distribution Models", Ecological Society of America Annual Meeting, August 2008

UC Santa Barbara, Department of Ecology, Evolution, and Marine Biology, June 2008

Harvey Mudd College, Department of Biology, March 2008

University of North Carolina, Department of Biology, February 2008

University of South Carolina, Department of Biology, January 2008

University of Connecticut, Department of Ecology and Evolutionary Biology, January 2008

UC San Diego, Section of Ecology, Behavior, and Evolution, December 2007

UC Los Angeles, Department of Ecology and Evolutionary Biology, December 2007

UC Davis, College of Agricultural and Environmental Science, November 2006

Santa Fe Institute, Competitive Strategies in Complex Systems Workshop, December 2006

University of New Mexico, Department of Biology, October 2005

Santa Fe Institute, February 2005

Symposium "Body Size, Biophysics and Biological Stoichiometry", Ecological Society of America Annual Meeting, August 2003

#### CONFERENCE PRESENTATIONS

Metabolic Ecology Gordon Conference. Poster presentation	2006, 2008
Ecological Society of America Annual Meeting. Oral presentations	2004, 2005, 2006, 2007, 2008, 2009
International Biogeography Society Meeting. Poster presentations	2003, 2005, 2007
Bay Area Conservation Biology Symposium. Oral presentations	2003, 2004, 2005
Society for the Study of Evolution Annual Meeting. Oral presentation	2004
Society for Conservation Biology Annual Meeting. Poster presentation	2000

#### TEACHING

<i>UNC Global Change Ecology, Biol490</i>	Spring 2010
<i>UNC Seminar in Phenology and Climate Change, Biol669</i>	Spring 2009

*Faculty for Workshop on Theoretical Ecology and Climate Change*, March 2009  
 International Centre for Theoretical Physics, Trieste, Italy Experience includes lecturing and leading a lab for a group of graduate students and postdocs primarily from developing countries. Directors: G. A. Canziani, G. A. De Leo, A.P. Dobson, M. Pascual.

*Faculty for Complex Systems Schools*

Experience includes lecturing to international and interdisciplinary groups of graduate students and postdocs and advising independent research.

- Santa Fe Institute, Santa Fe, NM June 2007
- Santa Fe Institute and Institute of Mathematical Sciences, Chennai, India January 2006

GRANTS

Joint NCEAS/NESCent working group (~\$100,000) 2007  
*Mechanistic distribution models: energetics, fitness, and population dynamics*  
 (Co-PI with M. Angilletta, R. Holt, and J. Tewksbury)

National Geographic Society Research and Exploration Grant (\$20,000) 2004  
*The ecological development of spatial diversity patterns within terrestrial insular communities*  
 (Co-author with J. Roughgarden)

Stanford University Field Studies Program Grant (\$9,100) 2004

Stanford University Field Studies Program Grant (\$7,900) 2003

Stanford University Center for Evolutionary Studies Grant (\$4,650) 2003

Stanford University Center for Evolutionary Studies Grant (\$3,980) 2002

INVITED

WORKSHOPS AND  
WORKING GROUPS

NCEAS Working groups  
*Towards understanding marine biological impacts of climate change* 2009-2011  
*The role of niche conservatism in producing biodiversity gradients* 2008-2009

NCEAS & NESCENT Working group  
*Mechanistic Range Models: energetics, fitness, and population dynamics* 2007-2009

Santa Fe Institute Workshop on Ant-Plant Interactions 2008

NSF Workshop on Scaling in Biology, UC Davis, Davis, CA 2007

DISCCRS II, Dissertation Initiative for Climate Change Research Symposium, Asilomar, CA 2006

Spatial Ecology Workshop, Mathematical Biosciences Institute, Columbus, OH 2006

PROFESSIONAL  
SERVICE

*Journal reviewer*, American Naturalist, Austral Ecology, Biological Journal of the Linnean Society, Biology Letters, Bioscience, Conservation Biology, Current Zoology, Ecography, Ecological Applications, Ecology, Ecology Letters, Evolutionary Applications, Functional Ecology, Global Change Biology, Global Ecology and Biogeography, Journal of Animal Ecology, Journal of Tropical Ecology, Integrative and Comparative Biology, Oecologia, Oikos, PLoS ONE, PNAS, Wildlife Research.

*Science and Education Coordinating Committee member*, National Ecological Observatory Network (NEON) Domain 2 (2009-present)

*Proposal panel*, NSF IGERT, November 2009.

*Proposal reviewer*, NSF Population and Evolutionary Processes and Advancing Theory in Biology, National Geographic Society Committee for Research and Exploration

*Application review and planning committee member*, DISCCRS (Dissertation Initiative for Climate Change Research Symposium) III (2007), SFI complex systems summer school (2006, 2007 & 2009), SFI postdoctoral fellowships (2006).

*Member*, American Association of Geographers, American Society of Naturalists, Ecological Society of America, International Biogeography Society.

*Organizing Committee Chair*, Bay Area Conservation Biology Symposium. 2005

*Outreach*

Panel member and mentor, Society for Advancement of Chicanos and Native Americans in Science Annual Meeting. 2008

Seminar, NSF GUTS (Growing Up Thinking Scientifically) program for middle school girls. 2007

Mentor, Biology Alumni Panel, Williams College. 2007

Science advisor, New Mexico Super Computing Challenge. 2007

Field Studies Program Mentor, Stanford University. 2003 & 2004