

Lauren B. Buckley

CONTACT INFORMATION	National Center for Ecological Analysis and Synthesis 735 State Street, Suite 300 Santa Barbara, CA 93101	buckley@nceas.ucsb.edu , (805)892-2512 www.nceas.ucsb.edu/~buckley
EDUCATION	Stanford University , Department of Biological Sciences, Stanford, CA USA Ph.D. Biology, September 2001 - September 2005 <ul style="list-style-type: none"> • Dissertation: Lizards distributions on islands: community ecology and biogeography • Committee: Joan Roughgarden (chair), Paul Ehrlich, Terry Root, and Peter Vitousek Williams College , Williamstown, MA USA B.A. Biology (honors), B.A. Mathematics, June 2000 <ul style="list-style-type: none"> • Honors thesis: The susceptibility of temperate forest fragments to non-native woody species • Advisor: Joan Edwards 	
RESEARCH INTERESTS	Mechanistic models of species' ranges and climate-induced range shifts. Energetic and ecological constraints on the abundance, distributions, and diversity of reptiles and amphibians.	
RESEARCH EXPERIENCE	<i>Assistant Professor</i> . Department of Biology, University of North Carolina Chapel Hill 01/2009 - <i>Postdoctoral Fellow</i> . National Center for Ecological Analysis and Synthesis 11/2007 - present <i>Postdoctoral Fellow</i> . The Santa Fe Institute 10/2005 - 10/2007 <i>Visiting Scholar</i> . University of California, San Diego. Host: Walter Jetz 10/2005 - present <i>Science & Policy Analyst</i> . Big Sky Conservation Institute, Missoula, MT. 09/2000 - 09/2001 <i>Research Assistant</i> . Sierra Nevada Aquatic Research Laboratory 06/2000 - 09/2000 Impact of introduced trout on amphibian populations. Advisor: Roland Knapp.	
AWARDS AND FELLOWSHIPS	NCEAS Postdoctoral Fellowship Santa Fe Institute Postdoctoral Fellowship NSF Predoctoral Research Fellowship Stanford Department of Biological Sciences Excellence in Teaching Award Best Student Poster Award, Society for Conservation Biology Annual Meeting Sigma Xi Honor Society NSF REU, Rocky Mountain Biology Laboratory. Mentor: Neo Martinez NSF REU, Wellesley College. Mentor: Martina Koniger	2007 2005-2007 2001-2004 2002 2000 2000 1999 1998
RESEARCH GRANTS	Joint NCEAS/NESCent working group (~\$100,000) <i>Mechanistic distribution models: energetics, fitness, and population dynamics</i> (Co-PI with M. Angilletta, R. Holt, and J. Tewksbury) National Geographic Society Research and Exploration Grant (\$20,000) <i>The ecological development of spatial diversity patterns within terrestrial insular communities</i> (Co-author with J. Roughgarden) Stanford University Field Studies Program Grant (\$9,100) Stanford University Field Studies Program Grant (\$7,900) Stanford University Center for Evolutionary Studies Grant (\$4,650) Stanford University Center for Evolutionary Studies Grant (\$3,980)	2007 2004 2004 2003 2003 2002

PUBLICATIONS

Buckley L. B. and Jetz W. *In review*. Linking turnover of species and environments.

Buckley L. B. 2008. Linking traits to energetics and population dynamics to predict lizard ranges in changing environments. *American Naturalist* 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. *Ecology* 89:48-55.

Buckley L. B. and Jetz W. 2007. Insularity and the determinants of lizard population density. *Ecology Letters* 10:481-489. (Covered by *Conservation Magazine*, *Science Daily*, *United Press International*, et al.)

Buckley L. B. and Jetz W. 2007. Environmental and historical constraints on global patterns of amphibian richness. *Proceedings of the Royal Society B* 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
WORKSHOPS

Santa Fe Institute Workshop on Ant-Plant Interactions	2008
NCEAS & NESCENT Working group on Mechanistic Range Models	2007-2009
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

INVITED
PRESENTATIONS

Organized oral session presentation, 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 presentation, 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
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

ACADEMIC
 EXPERIENCE AND
 SERVICE

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

Teaching Assistant

Experience includes instructing weekly discussion section and laboratory components; designing assignments, projects, and exams; and advising independent research.

- Animal Behavior, Stanford, Instructor: Deborah Gordon Spring 2003
- Ecology and Evolution, Stanford, Instructors: Dmitri Petrov & Peter Vitousek Spring 2002
- Principles of Theoretical Ecology, Stanford, Instructor: Joan Roughgarden Fall 2001
- Communities and Ecosystems, Williams College, Instructor: David Smith Spring 2000

Field Studies Program Mentor, Stanford University. 2003 & 2004

Mentor to four undergraduate students who participated in my field research. Organized biweekly meetings to introduce students to the study system and research project. Advised independent research projects.

Organizing Committee Chair, Bay Area Conservation Biology Symposium. 2005

Biology Mentoring Program, Stanford University. 2004 & 2005
 Academic advisor for undergraduate biology majors.

Reviewer, Biology Letters, Conservation Biology, Ecography, Ecological Applications, Ecology, Ecology Letters, Evolutionary Applications, Global Change Biology, Global Ecology and Biogeography, Journal of Animal Ecology, Integrative and Comparative Biology, National Geographic Society Committee for Research and Exploration, Oikos, PLoS ONE, PNAS.

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

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

Outreach

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