

Lauren B. Buckley

CONTACT INFORMATION	Santa Fe Institute Santa Fe, NM 87501	lbuckley@santafe.edu, (505)946-2768 www.santafe.edu/~lbuckley
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	Dynamic, bioenergetic 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>Postdoctoral Fellow</i> . The Santa Fe Institute, Santa Fe, NM	October 2005 - present
	<i>Visiting Scholar</i> . University of California, San Diego, La Jolla, CA. Host: Walter Jetz	October 2005 - present
	<i>Science & Policy Analyst</i> . Big Sky Conservation Institute, Missoula, MT.	September 2000 - 2001
	<i>Research Assistant</i> . Sierra Nevada Aquatic Research Laboratory. Impact of introduced trout on amphibian populations. Advisor: Roland Knapp.	June - August 2000
AWARDS AND FELLOWSHIPS	Santa Fe Institute Postdoctoral Fellowship	2005-2008
	NSF Predoctoral Research Fellowship	2001-2004
	Stanford Excellence in Teaching Award	2002
	Best Student Poster Award, Society for Conservation Biology Annual Meeting	2000
	Sigma Xi Honor Society	2000
	NSF REU, Rocky Mountain Biology Laboratory. Mentor: Neo Martinez	1999
	NSF REU, Wellesley College. Mentor: Martina Koniger	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)	2007
	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)	2004
	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
PUBLICATIONS	Buckley L. B. <i>in press</i> . Linking traits to energetics and population dynamics to predict lizard ranges in changing environments. <i>American Naturalist</i> .	
	Buckley L. B., Rodda G.H., and Jetz W. <i>in press</i> . Thermal and energetic constraints on ectotherm abundance: a global test using lizards. <i>Ecology</i> .	

Buckley L. B. and Jetz W. 2007. Insularity and the determinants of lizard population density. *Ecology Letters* 10:481-489.

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	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	Seminar, College of Agricultural and Environmental Science, UC Davis, Davis, CA	2006
	Seminar, Competitive Strategies in Complex Systems Workshop, Santa Fe Institute	2006
	Biocomplexity seminar, Biology Department, U New Mexico, Albuquerque, NM	2005
	Seminar, Santa Fe Institute, Santa Fe, NM	2005
	Symposium presentation, Ecological Society of America Annual Meeting, Savannah, GA	2003
CONFERENCE PRESENTATIONS	Metabolic Ecology Gordon Conference. Poster presentation	2006
	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	<i>Faculty for Complex Systems Schools</i>	
	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
	<i>Teaching Assistant</i>	
	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, Conservation Biology, Ecography, Ecological Applications, Ecology Letters, 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 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