

CURRICULUM VITAE

DANIEL LEE RABOSKY

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EDUCATION

Ph.D. Cornell University, Ecology & Evolutionary Biology, 2009
M.S. Pennsylvania State University, Biology, 2003
B.S. Ohio University, Biological Sciences, 1999

APPOINTMENTS

2009-2012 Miller Research Fellow, University of California, Berkeley
2003-2009 Graduate Research Assistant/Teaching Assistant, Department of Ecology & Evolutionary Biology, Cornell University
2006-2008 Honorary Researcher, Herpetology Section, South Australian Museum, Adelaide,
2004-2005 Research Associate, Western Australian Museum, Perth, Australia
2001-2003 Graduate Teaching Assistant, Biology Department, Penn State
2001 Herpetologist, Utah Division of Wildlife Resources, St George, Utah
2000-2001 Conservation Biologist, Institute for Wildlife Studies, San Diego

FELLOWSHIPS, AWARDS, GRANTS

FELLOWSHIPS

2009-2012 Miller Postdoctoral Fellowship, University of California, Berkeley
2004 NSF East Asia and Pacific Summer Institutes Fellowship, Australia
2003-2004 Presidential Life Sciences Fellowship, Cornell Genomics Initiative, Cornell Univ.

AWARDS

2009 Cole Award for best paper published by graduate student in EEB at Cornell Univ.

RESEARCH GRANTS

2008-2010 NSF, Phylogeography (senior personnel; with PI I. Lovette)
2006-2008 NSF, Doctoral Dissertation Enhancement Grant (with I. Lovette, A. McCune)

SMALLER RESEARCH GRANTS

2008 Cornell Sigma Xi Travel Grant
2005 Society of Systematic Biologists Graduate Research Award
2005 American Society of Ichthyologists and Herpetologists Gaige Award
2005 Orenstein Award, Department of Ecology & Evolutionary Biology, Cornell University
2004-2008 Cornell Graduate School Travel Grant (4x)
2004-2008 Andrew W. Mellon Foundation Research Grant (4x)
2004-2007 Cornell Sigma Xi Research Grant (2x)
2004-2006 Mario Einaudi Center for International Studies Travel Grant, Cornell University (2x)

PUBLICATIONS

PEER-REVIEWED

- Rabosky, D. L.** Ecological limits and diversification rate: alternative paradigms to explain the variation in species richness among clades and regions. *Ecology Letters*, in press
- Rabosky, D. L.** Heritability of extinction rates links diversification patterns in molecular phylogenies and the fossil record. *Systematic Biology*, in press.
- Rabosky, D. L.**, and A. R. McCune. Reinventing species selection with molecular phylogenies. *Trends in Ecology and Evolution*, in press.
- Agrawal, A.A., M. Fishbein, R. Halitschke, A. P. Hastings, **D. L. Rabosky**, and S. Rasman. Tempo of trait evolution in the milkweeds: evidence for adaptive radiation. In press, *Proc. Natl. Acad. Sci. U.S.A.*.
- Alfaro, M. E., F. Santini, C. D. Brock, H. Alamillo, A. Dornburg, **D. L. Rabosky**, G. Carnevale, and L. J. Harmon. Nine exceptional radiations plus high turnover explain species diversity in jawed vertebrates. In press, *Proc. Natl. Acad. Sci. U.S.A.*.
- Steeaman, M. E., M. B. Hebsgaard, R. E. Fordyce, S. W. Y. Ho, **D. L. Rabosky**, R. Nielsen, C. Rahbek, H. Glenner, M. V. Sørensen, and E. Willerslev. Evolution and radiation of extant whales. In press, *Systematic Biology*.
- Rabosky, D. L.**, and U. Sorhannus. 2009. Diversity dynamics of marine planktonic diatoms across the Cenozoic. *Nature* 457:183-186.
- Rabosky, D. L.** 2009. Ecological limits on clade diversification in higher taxa. *American Naturalist* 173:662-674.
- Rabosky, D. L.** and I. J. Lovette. 2009. Problems detecting density-dependent diversification on phylogenies: reply to Bokma. *Proceedings of the Royal Society of London, B Biological Sciences* 276:995-997.
- Rabosky, D. L.**, and I. J. Lovette. 2008. Density dependent diversification in North American wood-warblers. *Proceedings of the Royal Society of London, B Biological Sciences* 275: 2363-2371.
- Rabosky, D. L.**, and I. J. Lovette. 2008. Explosive evolutionary radiations: decreasing speciation or increasing extinction through time? *Evolution* 62:1866-1875.*
- * Editor's Choice, *Science* 321:1134; "Must Read" rating from Faculty of 1000. Ranks in top five most-accessed articles published in *Evolution* in 2008.
- Rawlings, L. H., **D. L. Rabosky**, S. C. Donnellan, and M. N. Hutchinson. 2008. Python phylogenetics: inferences from morphology and mitochondrial DNA. *Biological Journal of the Linnean Society* 93:603-619.
- Rabosky, D. L.**, S. C. Donnellan, A. L. Talaba, and I. J. Lovette. 2007. Exceptional among-lineage variation in diversification rates during the radiation of Australia's largest vertebrate clade. *Proceedings of the Royal Society of London, B Biological Sciences* 274:2915-2923.

Rabosky, D. L., J. Reid, M. A. Cowan, and J. Foulkes. 2007. Community-wide overdispersion of body size in Australian desert lizard communities. *Oecologia* 154:561-570.

Rabosky, D. L. 2006. LASER: a maximum likelihood toolkit for detecting temporal shifts in diversification rates from molecular phylogenies. *Evolutionary Bioinformatics Online* 2:257-260.

Rabosky, D. L. 2006. Likelihood methods for inferring temporal shifts in diversification rates. *Evolution* 60:1152-1164.

Rabosky, D. L., K. P. Aplin, S. C. Donnellan, and S. B. Hedges. 2004. Molecular phylogeny of blindsnakes (Ramphotyphlops) from Western Australia and resurrection of *Ramphotyphlops bicolor* (Peters, 1857). *Australian Journal of Zoology* 52:531-548.

Johnson, K. S., and **D. Rabosky**. 2000. Phylogenetic distribution of digestive proteinases in beetles: evidence for an evolutionary shift to an alkaline digestive strategy in Cerambycidae. *Comparative Biochemistry and Physiology B* 126:609-619.

MANUSCRIPTS IN REVIEW/REVISION

Rabosky, D. L. Extinction rates (usually) cannot be estimated from molecular phylogenies. *Evolution*, in revision.

Rabosky, D. L., A. L. Talaba, S. C. Donnellan, and I. J. Lovette. Molecular evidence for hybridization and cryptic species in the Australian fourteen-lined skink, *Ctenotus quattuordecimlineatus* (Scincidae : Squamata). In Revision.

BOOK REVIEWS

Rabosky, D. L. 2009. Speciation in birds and more: review of *Speciation in Birds* by Trevor Price. *Conservation Biology* 23:506-508.

Rabosky, D. L. 2008. Review of *How and Why Species Multiply* by Grant and Grant. *Auk* 125:994-5.

Rabosky, D. L. 2005. Review of Coyne and Orr's *Speciation*. *Auk* 122: 371-373.

POPULAR ARTICLES

Rabosky, D. L. 2005. The most diverse lizard community on earth. *Birdscope* 19:6-7.

TEACHING EXPERIENCE

INSTRUCTOR

2007 Graduate course in R Programming/quantitative methods in ecology and evolution, Cornell University. Responsible for 100% of course, including lectures, computer labs, and development of course materials.

TEACHING ASSISTANT

2007 Herpetology Laboratory, Cornell University (taught 2 full semester labs)

- 2005-06 Introductory Biology Laboratory, Cornell University (4 full semester labs)
 2001-2003 Vertebrate Physiology Laboratory (10 full semester labs), Penn State

GUEST LECTURER

- 2006-2008 BioEE 278, Macroevolution, Cornell University (2x)
 2007 BioEE 472, Herpetology
 2006-2007 BioEE 278, Evolutionary Biology, Cornell University (3x)

COMPUTATIONAL RESOURCES/SOFTWARE DEVELOPMENT

- 2006- Developer/maintainer of LASER package for R programming environment
 (Likelihood Analysis of Speciation and Extinction Rates);
<http://cran.r-project.org/web/packages/laser/index.html>
- 2007 Participant in the Comparative Methods R Hackathon, a working group to develop
 and implement comparative methods in R. NESCent, Durham, NC

PRESENTATIONS
INVITED SEMINARS

- 2009 Department of Biology, University of California, Riverside
 2009 Department of Ecology and Evolutionary Biology, Cornell University
 2008 Museum of Vertebrate Zoology, University of California, Berkeley
 2008 Center for the Environment, Harvard University
 2008 Department of Ecology and Evolutionary Biology, University of Connecticut
 2008 Biology Department, Ithaca College
 2007 Australia-Melanesia Connections working group, CSIRO, Canberra, Australia
 2006 Evolutionary Biology Unit, University of Adelaide, Australia
 2004 Evolutionary Biology Unit, University of Adelaide, Australia

CONTRIBUTED PAPERS

- 2008 American Society of Ichthyologists and Herpetologists, Montreal
 2008 Society for the Study of Evolution, University of Minnesota, Minneapolis
 2008 Ecology and Evolution Graduate Symposium, Cornell University
 2008 Tree Thinking at Cornell Phylogenetics Symposium, Cornell University
 2007 Ecology and Evolution Graduate Symposium, Cornell University
 2006 Society for the Study of Evolution, Stony Brook University, Stony Brook
 2005 Society for the Study of Evolution, University of Alaska, Fairbanks
 1999 Society for the Study of Evolution, University of Wisconsin, Madison
 1999 Society for Integrative and Comparative Biology, Denver
 1998 Ohio Academy of Sciences, Columbus

INVITED WORKSHOPS

- 2008 Outstanding Questions in Speciation Workshop, Centre for Population Biology,
 Imperial College, London
 2007 Australia-Melanesia Connections Workshop, CSIRO, Canberra, Australia
 2007 Comparative Methods in R Hackathon, NESCent, Durham

REVIEWER FOR

American Naturalist; Bioinformatics; Biological Journal of the Linnean Society; Biology Letters; BMC

Evolutionary Biology; Cornell Sigma Xi grants; Cornell College of Agriculture and Life Sciences Mellon grants; Cornell University Press; Evolution; Molecular Biology and Evolution; Molecular Ecology Notes; PLoS Biology; Proceedings of the National Academy of Sciences of the U.S.A.; Proceedings of the Royal Society B Biological Sciences; Systematic Biology

PRESS COVERAGE

Cornell Chronicle; Cornell Lab of Ornithology; Science (Editor's Choice for Rabosky & Lovette, 2008, *Evolution*)

SYNERGISTIC ACTIVITIES

EDUCATIONAL OUTREACH

- 2009 Conducted workshop on "What Scientists Do" for grades K-8 at Willow Creek Learning Center (Boardman, Ohio).
- 2006-2008 Conducted workshops on evolution, phylogenetics, and Australian biodiversity for Advanced Placement Biology students at Ithaca (NY) High School
- 2006 Evolution advocacy: lectured on the Intelligent Design movement to Ithaca High School science staff
- 2005 Public lecture on Australian natural history & ecology to Cayuga Bird Club (Ithaca)
- 2005 Presentation on Australian biodiversity & ecology to Cornell Herpetological Society
- 2005 Lecture on ecology of arid Australia, Western Australian Museum, Perth
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SOCIETY MEMBERSHIPS

American Society of Ichthyologists and Herpetologists
American Society of Naturalists
Society for the Study of Evolution
Society of Systematic Biologists

GRADUATE ADVISORS AND SPECIAL COMMITTEE

Amy R. McCune, PhD Advisor, Cornell University
Irby J. Lovette, PhD Advisor, Cornell University, Cornell University
Anurag Agrawal, Special Committee Member, Cornell University
Harry W. Greene, Special Committee Member, Cornell University