CURRICULUM VITAE

DANIEL LEE RABOSKY

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EDUCATION
Cornell University, Ecology & Evolutionary Biology, 2009
Pennsylvania State University, Biology, 2003
Ohio University, Biological Sciences, 1999
APPOINTMENTS
Assistant Professor, Dept of Ecology and Evolutionary Biology,
University of Michigan
Assistant Curator of Herpetology, Museum of Zoology, University of Michigan
Miller Research Fellow, University of California, Berkeley
FELLOWSHIPS, AWARDS, GRANTS
os
Miller Postdoctoral Fellowship, University of California, Berkeley
NSF East Asia and Pacific Summer Institutes Fellowship, Australia
Presidential Life Sciences Fellowship, Cornell Genomics Initiative, Cornell Univ.
Theodosius Dobzhansky Prize, Society for the Study of Evolution
Young Investigator Prize, American Society of Naturalists
Ernst Mayr Award for best presented paper, Society of Systematic Biologists
Cole Award for best paper published by graduate student in EEB at Cornell Univ.
RANTS
NSF, Phylobiogeography (senior personnel): Ecological Drivers and Phylogenetic
Components of Diversification in a Major Continental Vertebrate Radiation
[\$398,592]
NSF, Doctoral Dissertation Enhancement Grant: Adaptive and Non-Adaptive
Radiation in Australian Desert Lizards [\$18,998]
SEARCH GRANTS
Cornell Sigma Xi Travel Grant
Society of Systematic Biologists Graduate Research Award
American Society of Ichthyologists and Herpetologists Gaige Award
Orenstein Award, Department of Ecology & Evolutionary Biology, Cornell University
Cornell Graduate School Travel Grant (4x)
Andrew W. Mellon Foundation Research Grant (4x)
Cornell Sigma Xi Research Grant (2x)
Mario Einaudi Center for International Studies Travel Grant, Cornell University (2x)

PUBLICATIONS

- Rabosky, D. L., G. J. Slater, and M. E. Alfaro. 2012. Clade age and species richness are decoupled across the Eukaryotic tree of Life. *PLoS Biology* 10: e1001381.
- Rabosky, D. L. 2012. Positive correlation between diversification rates and phenotypic evolvability can mimic punctuated equilibrium on molecular phylogenies. *Evolution* 66: 2622-2627.
- Springer, M. S., R. W. Meredith, J. Gatesy, C. A. Emerling, J. Park, D. L. Rabosky, T. Stadler, C. Steiner, O. A. Ryder, J. E. Janecka, C. A. Fisher, and W. J. Murphy. 2012. Macroevolutionary dynamics and historical biogeography of primate diversification inferred from a species supermatrix. **PLoS ONE** 7:e49521.
- Rabosky, D. L., and D. C. Adams. 2012. Rates of morphological evolution are correlated with species richness in salamanders. *Evolution* 66:1807-1818.
- Reddy, S. L., A. Driskell, D. L. Rabosky, S. J. Hackett, and T. S. Schulenberg. 2012. Diversification and the adaptive radiation of the vangas of Madagascar. *Proceedings of the Royal Society of London, B Biological Sciences*. doi:10.1098/rspb.2011.2380.
- Rabosky, D. L. 2012. Testing the time-for-speciation effect in the assembly of regional biotas. *Methods in Ecology and Evolution*. 3:224-233.
- Rabosky, D. L., M. A. Cowan, A. L. Talaba, and I. J. Lovette. 2011. Species interactions mediate phylogenetic community structure in a hyperdiverse lizard assemblage from arid Australia. *American Naturalist* 178:579-595.
- Meredith, R. W., J.E. Janecka, J. Gatesy, O. A. Ryder, C. A. Fisher, E. C. Teeling, A. Goodbla, E. Eizirik, T. L. L. Simao, T. Stadler, D. L. Rabosky, R. L. Honeycutt, J. J. Flynn, C. M. Ingram, C. Steiner, T. L. Williams, T. J. Robinson, A. Burk-Herrick, M. Westerman, N. A. Ayoub, M. S. Springer and W. J. Murphy. 2011. Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on mammal diversification. *Science* 334:521-524.
- Rabosky, D. L., and R. E. Glor. 2010. Equilibrium speciation dynamics in a model adaptive radiation of island lizards. *Proc. Natl. Acad. Sci. U.S.A.* 51:22178-22183. [cover article]
- Rabosky, D. L. 2010. Primary controls on species richness in higher taxa. *Systematic Biology* 59:634-645.
- Rabosky, D. L., and M. E. Alfaro. 2010. Evolutionary bangs and whimpers: methodological advances and conceptual frameworks for studying exceptional diversification. *Systematic Biology* 59:615-618.
- Rabosky, D. L. 2010. Extinction rates should not be estimated from molecular phylogenies. *Evolution* 6:1816-1824.
- Rabosky, D. L., and A. R. McCune. 2010. Reinventing species selection with molecular phylogenies. *Trends in Ecology and Evolution* 25:68-74.
- 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 and diversification rate: alternative paradigms to explain the variation in species richness among clades and regions. *Ecology Letters* 12: 735-743.
- Rabosky, D. L. 2009. Heritability of extinction rates links diversification patterns in molecular phylogenies and the fossil record. *Systematic Biology* 58:629-640.
- Rabosky, D. L., A. L. Talaba, S. C. Donnellan, and I. J. Lovette. 2009. Molecular evidence for hybridization between two Australian desert skinks, *Ctenotus leonhardii* and *Ctenotus quattuordecimlineatus* (Scincidae: Squamata). *Mol. Phyl. Evol.* 53:368-377.
- Rabosky, D. L. 2009. Ecological limits on clade diversification in higher taxa. *American Naturalist* 173:662-674.
- Agrawal, A.A., M. Fishbein, R. Halitschke, A. P. Hastings, D. L. Rabosky, and S. Rasman. 2009. Tempo of trait evolution in the milkweeds: evidence for adaptive radiation. *Proc. Natl. Acad. Sci. U.S.A.* 106: 18067-18072.
- Alfaro, M. E., F. Santini, C. D. Brock, H. Alamillo, A. Dornburg, D. L. Rabosky, G. Carnevale, and L. J. Harmon. 2009. Nine exceptional radiations plus high turnover explain species diversity in jawed vertebrates. *Proc. Natl. Acad. Sci. U.S.A.* 106:13410-13414.
- Steeman, 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. 2009. Evolution and radiation of extant whales. *Systematic Biology*. 58:573-585.
- 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 woodwarblers. *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.
- 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.

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	!
2012	EEB 401: Computer Programming for Ecology and Evolution (Univ of Michigan, 3 credits)
2012	EEB 801: Graduate seminar in macroevolution (Univ of Michigan, 1 credit)
2012 2007	Tropical Field Ecology, Mpala Research Station, Kenya (January 2012) 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)

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

GRADUATE SEMINARS/DISCUSSIONS

2008-2009	Co-organized weekly "quantitative biology" lunch seminar, to help graduate
	students with data analysis problems (with D. Winkler)
2008	Co-organized weekly Comparative Methods seminar (with A. Agrawal)
2005	Co-organized weekly Phylogenies in Ecology seminar (with A. Agrawal)
2004	Co-organized weekly Diversification Rates seminar (with I. Lovette)

COMPUTATIONAL RESOURCES/SOFTWARE DEVELOPMENT

Developer of LASER package for R programming environment (Likelihood Analysis of Speciation and Extinction Rates);
http://cran.r-project.org/web/packages/laser/index.html

Participant in the Comparative Methods R Hackathon, a working group to develop and implement comparative methods in R. NESCent, Durham, NC

	PRESENTATIONS
INVITED	T RESERVITATIONS
2012	Italian Evolutionary Biology Society, Ferrara, Italy (Keynote Lecture)
2012	American Museum of Natural History, Richard Gilder Graduate School, NY
2012	Dobzhansky Prize Lecture, Society for the Study of Evolution, Ottawa, Canada
2012	Evolutionary Biology Unit, University of Adelaide
2012	Division of Ecology, Evolution, and Genetics, Australian National University
2012	California Academy of Sciences
2012	Dept of Integrative Biology, Univ. California, Berkeley
2011	Dept of Biology, University of Florida (graduate student invited speaker)
2011	Department of Ecology & Evolutionary Biology, UC Santa Cruz
2011	Department of Ecology and Evolution, University of Chicago
2010	Dept of Environmental Sciences, Policy, and Management, UC Berkeley
2010	Committee on Evolutionary Biology, University of Chicago
2010	Center for Population Biology, University of California, Davis
2010	Department of Ecology & Evolutionary Biology, University of Michigan
2010	Frontiers in Biodiversity Symposium, University of Barcelona
2010	Young Investigator Symposium, American Society of Naturalists meeting, Portland
2010	Systematische Botanik, Munich, Germany
2010	Institute for Systematic Botany, University of Zurich, Switzerland
2010	Department of Ecology and Evolution, University of Lausanne, Switzerland
2010	Museum of Vertebrate Zoology, University of California, Berkeley
2010	Department of Biology, Duke University
2009	Department of Biology, San Francisco State University
2009	Dept. of Ecology and Evolutionary Biology, University of Tennessee
2009	Department of Ecology and Evolution, University of California, Los Angeles
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

CONFERENCE PRESENTATIONS

2011 Society for the Study of Evolution, Norman, Oklahoma

2009	Society for Systematic Biologists, University of Idaho
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

SYMPOSIA ORGANIZED

2009	"Methodological advances and conceptual frameworks for studying exceptional
	diversification", Society of Systematic Biologists symposium (University of Idaho)

INVITED WORKSHOPS

 "Diversification of Australia's Biota and Conservation Implications", University of Adelaide, Adelaide, Australia "Outstanding Questions in Speciation", Centre for Population Biology, Imperial College, London 	2010	"Island Biodiversity Dynamics", UC Berkeley
2008 "Outstanding Questions in Speciation", Centre for Population Biology, Imperial	2010	"Diversification of Australia's Biota and Conservation Implications", University of
		Adelaide, Adelaide, Australia
College, London	2008	"Outstanding Questions in Speciation", Centre for Population Biology, Imperial
		College, London
2007 "Australia-Melanesia Connections", CSIRO, Canberra, Australia	2007	"Australia-Melanesia Connections", CSIRO, Canberra, Australia
"Comparative Methods in R Hackathon", NESCent, Durham	2007	"Comparative Methods in R Hackathon", NESCent, Durham

PROFESSIONAL SERVICE

EDITORIAL SERVICE

Associate Editor, Proceedings of the Royal Society B (2011-2014) Associate Editor, Systematic Biology (2010 Special Issue)

REFEREE SERVICE (JOURNALS AND BOOKS)

American Naturalist; Bioinformatics; Biological Journal of the Linnean Society; Biological Reviews; Biology Letters; BMC Evolutionary Biology; Cambridge University Press; Cornell University Press; Ecological Monographs; Ecology; Ecology Letters; Ecoscience; Evolution; Evolutionary Bioinformatics; Evolutionary Biology; Global Ecology and Biogeography; Journal of Animal Ecology; Journal of Biogeography; Journal of Experimental Zoology; Journal of Evolutionary Biology; Methods in Ecology and Evolution; Molecular Biology and Evolution; Molecular Ecology Notes; Molecular Phylogenetics and Evolution; Nature; PLoS Biology; PLoS ONE; Proc. Natl. Acad. Sci. U.S.A.; Proceedings of the Royal Society B Biological Sciences; Science; Systematic Biology; Trends in Ecology and Evolution; University of California Press

REFEREE SERVICE (GRANTS)

Cornell College of Agriculture and Life Sciences Mellon grants; Leverhulme Trust; Neotropical Grasslands Conservancy; NSF (ad hoc reviewer + panel service); Sigma Xi

SYNERGISTIC ACTIVITIES

2011-2012	Led weekly 3 hour clinic on "Scientific Programming with R" at UC Berkeley
2011	Co-instructor, <i>Comparative Methods in R</i> one-week course, NCEAS, Santa Barbara.
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

SOCIETY MEMBERSHIPS

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

POSTDOCTORAL SPONSORS, GRADUATE ADVISORS AND SPECIAL COMMITTEE

John Huelsenbeck, Miller Postdoctoral Sponsor and Advisor, UC Berkeley Craig Moritz, Postdoctoral Advisor, UC Berkeley Amy R. McCune, PhD Advisor, Cornell University Irby J. Lovette, PhD Advisor, Cornell University Anurag Agrawal, Special Committee Member, Cornell University Harry W. Greene, Special Committee Member, Cornell University