ALISON R. DAVIS RABOSKY

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY UNIVERSITY OF MICHIGAN 1089 Ruthven Museums Building, 1109 Geddes Ave., Ann Arbor, MI 48109-1079 email: ardr@umich.edu <u>http://www-personal.umich.edu/~ardr/index.html</u>

APPOINTMENTS	ASSISTANT RESEARCH SCIENTIST		
	Department of Ecology and Evolutionary Biology		
	Museum of Zoology (UMMZ)		
	University of Michigan 2012-	present	
	POSTDOCTORAL RESEARCH ASSOCIATE		
	University of California, Berkeley		
	NSF Postdoctoral Fellow in Biology (Bioinformatics)		
	Advisor: Jim McGuire 200	09-2011	
EDUCATION	UNIVERSITY OF CALIFORNIA, SANTA CRUZ		
	Ph.D., Ecology and Evolutionary Biology		
	Advisor: Barry Sinervo 200	02-2009	
	POMONA COLLEGE (CLAREMONT, CA)		
	B.A., Biology		
	Advisor: Steve Adolph (Harvey Mudd College)		
	Study Abroad, James Cook University, Australia 2001 199	98-2002	
PUBLICATIONS	[†] UM graduate student; [*] UM undergraduate student		
	18. Davis Rabosky AR , CL Cox, DL Rabosky, PO Title [†] , IA Holmes [†] , A Feldman, JA McGuire. Coral snakes predict the evolution of mimicry across New World snakes. <i>Nature Communications</i> , in press.		
	17. Davis Rabosky AR , CL Cox, DL Rabosky. Mendelian inheritance of a and black pigmentation in snakes: implications for Batesian mimicry. <i>Evolut</i> press.		
	16. Grundler MR [*] , IA Holmes [†] , AR Davis Rabosky . Predator perspective geographic variation in frequency-dependent polymorphism. <i>The American ralist</i> , invited revision under review.		
	15. Holmes IA [†] , WJ Mautz, AR Davis Rabosky . Pleistocene sea level changes are reflected in modern population genetics and historical biogeography of an island endemic lizard (<i>Xantusia riversiana reticulata</i>). <i>PLoS ONE</i> , in review.		
	14. Reses HE*, AR Davis Rabosky , RC Wood. 2015. Nesting success and er breaching: Assessing the effectiveness of roadway fencing in Diamondback rapins (<i>Malaclemys terrapin</i>). <i>Herpetological Conservation and Biology</i> 10(1) 161-179.	k Ter-	

13. Cox CL and **AR Davis Rabosky** (<u>co-first authors</u>). 2013. Spatial and temporal drivers of phenotypic diversity in polymorphic snakes. *The American Naturalist* 182(2): E40-E57.

Featured in: Evolutionary Analysis (textbook) by Herron and Freeman, 4th Edition, pg. 148

12. Cox CL, AR Davis Rabosky, P Chippendale. 2013. Sequence variation in the *Mc1R* gene for a group of polymorphic snakes. *Gene* 513(2): 282-286.

11. Castoe TA, EL Braun, AM Bronikowski, JM Castoe, CL Cox, **AR Davis Ra-bosky**, APJ de Koning, J Dobry, MK Fujita, M Giorgianni, A Hargreaves, C Henkel, SP Mackessy, D O'Meally, DR Rokyta, SM Secor, JW Streicher, KP Wray, KD Yokoyama, and DD Pollock. 2012. Report from the first Snake Genomics and Integrative Biology meeting. *Standards in Genomic Science* 7:1.

 Davis Rabosky AR, A Corl, HEM Liwanag, Y Surget-Groba, B Sinervo.
 2012. Direct fitness correlates and thermal consequences of facultative aggregation in a desert lizard. *PLoS ONE* 7(7): e40866.

Featured in: Comparative Social Evolution (book, Cambridge University Press), publication in Fall 2016

9. Cox CL, AR Davis Rabosky, J Reyes-Velasco, P Ponce-Campos, EN Smith, O Flores-Vilella, and JA Campbell. 2012. Molecular systematics of the genus Sonora (Squamata: Colubridae) in central and western Mexico. Systematics and Biodiversity 10(1): 93–108.

 Davis AR. 2012. Kin presence drives philopatry and social aggregation in juvenile night lizards (*Xantusia vigilis*). Behavioral Ecology 23(1): 18-24.
 Featured in: Vertebrate Life (textbook) by Pough, Janis, and Heiser, 9th Edition, pg. 335

7. Davis AR, A Corl, Y Surget-Groba, and B Sinervo. 2011. Convergent evolution of kin-based sociality in a lizard. *Proceedings of the Royal Society of London-B* 278: 1507-1514.

Press coverage by: NBC News [link], Discovery News [link], UCSC Science Communication Program [link]

6. Corl A, **AR Davis**, SR Kuchta, LT Lancaster, and B Sinervo. 2010. Selective loss of polymorphic mating types is associated with rapid phenotypic evolution during morphic speciation. *Proceedings of the National Academy of Sciences USA* 107(9): 4254-4259.

5. Corl A, **AR Davis**, SR Kuchta, T Comendant, and B Sinervo. 2010. Alternative mating strategies and the evolution of sexual size dimorphism in the Side-Blotched lizard, *Uta stansburiana*: A population-level comparative analysis. *Evolution* 64(1): 79-96.

4. Sinervo B, B Heulin, Y Surget-Groba, J Clobert, DB Miles, A Corl, A Chaine, and **A Davis**. 2007. Models of density-dependent genic selection and a new rock-paper-scissors social system. *The American Naturalist* 170(5): 663-680.

	3. Davis AR and DH Leavitt. 2007. Candlelight <i>vigilis</i> : A noninvasive method for sexing small, sexually monomorphic lizards. <i>Herpetological Review</i> 38(4): 402-404.
	2. Parris MJ, A Davis , and JP Collins. 2004. Single-host pathogen effects on mor- tality and behavioral responses to predators in salamanders (Urodela: Ambystom- atidae). <i>Canadian Journal of Zoology</i> 82: 1477-1483.
	BOOK CHAPTERS (PEER-REVIEWED)
	1. Cox CL, AR Davis Rabosky , DR Frost. <i>Sonora semiannulata</i> . In press, Snakes of Arizona, ed. AT Holycross and JC Mitchell (http://snakesofaz.com).
GRANTS/AWARDS	 2013-present: Research grant, Bureau of Land Management 2009-2011: NSF Postdoctoral Research in Biology (Bioinformatics), DBI-0906046 2007: Systematics Research Fund Award Winner, The Linnean Society 2007-2009: Graduate Assistance in Areas of National Need (GAANN) recipient 2006: Science, Technology, Engineering, Policy, and Society (STEPS) Institute Environmental Research Grant Winner 2004, 2005: Science Buddies "Outstanding Service Award" recipient 2002, 2003: NSF Graduate Research Fellowship Honorable Mention 2003: American Society of Ichthyologists and Herpetologists Gaige Fund Award 2003: American Museum of Natural History Theodore Roosevelt Memorial Fund
INVITED TALKS	 TBD, 2016: University of Pittsburgh TBD, 2016: Ohio University 10/2/2013: Color polymorphism and the evolution of snake mimicry, Eastern Michigan University 3/15/2012: Trait evolution from multiple perspectives: Lizard social evolution and snake mimicry systems, University of California, Riverside 11/7/2011: Color polymorphism and the evolution of snake mimicry systems, University of California, Berkeley 3/8/2010: The role of color polymorphism in the evolutionary dynamics of mimetic snakes (Sonora sp.), University of California, Berkeley 3/4/2010: Lizard sociality: Kin dynamics, fitness benefits, and thermal consequences of aggregation, University of Texas, Arlington 9/30/2009: Lizard sociality: Kin dynamics, fitness benefits, and thermal consequences of aggregation, University of California, Berkeley 12/03/2007: Dispersal and social aggregation in Xantusiid lizards: kin effects and fitness consequences, University of California, Berkeley
CONFERENCES	 SSAR, Lawrence, KS, July 31-August 3, 2015; Talk title: The evolution of coral snake mimicry across the New World Evolution, Raleigh, NC, June 20-24, 2014 Snake Genomics & Integrative Biology, Vail, CO, October 5-9, 2011; Talk title: The genomic window into the evolution of snake mimicry systems

	 Evolution, Norman, OK, June 17-21, 2011; Talk title: Color polymorphism and the evolution of snake mimicry systems Evolution, Portland, OR, June 25-29, 2010; Talk title: Group dynamics and direct fitness benefits of kin sociality in an aggregating lizard Physiological Ecology, Bishop, CA, June 6-8, 2008; Talk title: Thermal effects of winter aggregation in the Desert Night Lizard (<i>Xantusia vigilis</i>) NERE WEB2, Irvine, CA, May 25, 2008; Talk title: A test of kin selection: Kin effects on dispersal and social aggregation in juvenile Desert Night Lizards Relatedness, Social Structure, and Dispersal, Paris, France, April 3-5, 2003
SOCIETIES	Society for the Study of Evolution American Society of Naturalists American Society of Ichthyologists and Herpetologists
TEACHING	 2012: Lecturer, University of California, Berkeley Spring 2012: Natural History of Vertebrates (IB104) 2002 - 2009: Teaching Assistant, University of California, Santa Cruz Fall 2002: Introduction to Psychobiology (Bio 70) Winter 2003, Spring 2005: Introduction to Cell and Molecular Biology (Bio 20A) Spring 2003, Spring 2006, Fall 2008, Winter 2009: Plant and Animal Development and Physiology (Bio 20B) Fall 2003: Behavioral Ecology (Bio 140) Winter 2004: Herpetology (Bio 143) Spring 2004: Female Physiology (Bio 80A) Fall 2004, 2005, 2006: Molecular Methods in Organismal Biology (Bio 187L) 2002: Teaching Assistant, Pomona College Introductory Genetics (Bio 40)
MENTORING	 Total courses: 15 Ph.D. Research (co-advised): Iris Holmes, 2014-present: The ecology and evolution of squamate gut microbiomes Master's Research (co-advised): Adolfo Gomez Delgato, 2015-present: Anti-fungal protection and breeding system correlates to amphibian skin microbiomes Ivan Monagan, 2014-present: Anolis lizards as biocontrol agents in tropical coffee agriculture Juan Pablo Busso, 2012-2013: Female preference in the polymorphic spider Maevia inclemens and its influence on alternative reproductive tactics Undergraduate Directed Research: Maggie Grundler, 2012-2015: Population genetics of negative frequency-dependent polymorphism Hannah Reses, 2012-2014: Assessing the effectiveness of roadside dispersal barriers for diamondback terrapins (Malaclemys terrapin)

	 Reed Newman, 2007-2008: Thermal consequences of winter aggregation in Xantusia vigilis. Rob Davies, 2006-2007: Genetic analysis of breeding dynamics in Xantusia vigilis. Ayush Jha, 2006-2007: Gene flow across habitats after the removal of introduced livestock in an island endemic lizard (Xantusia riversiana).
	Postgraduate Directed Research:Iris Holmes, 2012-2014: Conservation and management of island lizardsAmy Patten, 2009-2011: Climate change effects on lizard thermal biology and bio- diversity
SERVICE	 2016-2020: Board of Governors member, American Society of Ichthyologists and Herpetologists (ASIH) 2016-present: UM Museum of Natural History, exhibit content advisor 2012-present: UM Museum of Zoology ID Day and Behind the Scenes Day 2015: External Ph.D. thesis examiner, Macquarie University (Australia) 2010-2013: Assistant Editor, Amphibian and Reptile Conservation 2013: Women in Science and Engineering (WiSE) Invited Speaker, University of Michigan 2011: Initiative for Maximizing Student Development (IMSD) Panel Member, UC Berkeley. 2016-2009: Co-director of educational demonstrations exposing middle school students from underrepresented minority groups to current research in Ecology and Evolutionary Biology with the Mathematics, Engineering & Science Achievement (MESA) Program. 2006-2007: Graduate representative to the Ecology & Evolutionary Biology Department, UCSC. 2006-2007: Graduate student member, search committee for a new faculty hire in Vertebrate Physiology, UCSC. 2006: Graduate Committee for Diversity Enhancement (GCDE) Member, UCSC. 2006: Mentor in the Science Buddies program, an online interactive program for mentoring San Francisco Bay Area middle and high school students competing in science fairs. 1996-1998: Volunteer instructor, Hands on Science classes for 3rd-5th graders, Albuquerque Public Schools, New Mexico. Reviewer for: Evolution, The American Naturalist, PLoS One, Biological Journal
	Reviewer for: Evolution, The American Naturalist, PLoS One, Biological Journal of the Linnean Society, Journal of Zoology, Animal Behaviour, Functional Ecology, Herpetological Conservation and Biology, the U.S. Fish and Wildlife Service, Cam- bridge University Press, the UK Biotechnology and Biological Sciences Research Council (BBSRC), and the National Science Foundation (NSF).