

LIAM J. REVELL
Curriculum Vitae

Profesor Asociado, Programa de Biología | Associate Professor, Department of Biology
Universidad del Rosario, Bogotá, Colombia | Univ. of Mass. Boston, Boston MA, U.S.A.

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web: <http://faculty.umb.edu/liam.revell>

phytools: <http://blog.phytools.org>; <https://github.com/liamrevell/phytools>

PROFESSIONAL APPOINTMENTS:

- 2017- present Universidad del Rosario, Programa de Biología, Bogotá, Colombia
Profesor Asociado de la Carrera
- 2015- present University of Massachusetts Boston, Department of Biology, Boston, Massachusetts
Associate Professor
- 2016- 2017 Universidad de los Andes, Departamento de Ciencias Biológicas, Bogotá, Colombia
Visiting Professor (sabbatical scholar)
- 2011- 2015 University of Massachusetts Boston, Department of Biology, Boston, Massachusetts
Assistant Professor
- 2009- 2011 National Evolutionary Synthesis Center (NESCent), Durham, North Carolina
Postdoctoral Fellow
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EDUCATION:

- 2006- 2009 Harvard University, Cambridge, Massachusetts
Organismic and Evolutionary Biology (Adv: Jonathan B. Losos)
Doctor of Philosophy, June 2009
- 2003- 2006 Washington University, St. Louis, Missouri
Evolution, Ecology and Population Biology (Adv: Jonathan B. Losos)
Master of Arts, August 2006
- 1999- 2003 Boston University, Boston, Massachusetts
Biology (Adv: Christopher J. Schneider)
Bachelor of Arts, *summa cum laude* with distinction, May 2003
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PUBLICATIONS (➤ denotes link to PDF):

- Revell, L. J., L. E. González-Valenzuela, A. Alfonso, L. A. Castellanos-García, C. E. Guarnizo, and A. J. Crawford. In press. Comparing evolutionary rates between trees, clades, and traits. *Methods in Ecology and Evolution*.
- Winchell, K. M., E. J. Carlen, A. R. Puente-Rolón, and L. J. Revell. 2018. Divergent habitat use of two urban lizard species. *Ecology and Evolution* 8: 25-35. ➤
- Reynolds, R. G., T. R. Strickland, J. J. Kolbe, B. G. Falk, G. Perry, L. J. Revell, and J. B. Losos. 2017. Archipelagic genetics in a widespread Caribbean anole. *Journal of Biogeography* 44: 2631-2647. ➤
- Arcila, D., R. Vari, J. W. Armbruster, M. L. J. Stiassny, K. D. Kol, M. H. Sabaj, J. Lundberg, L. J. Revell, G. Ortí, and R. Betancur-R. 2017. Genome-wide gene genealogy interrogation advances resolution of recalcitrant groups in the Tree of Life. *Nature Ecology & Evolution* 1: 0020. ➤
- Tyler, R. K., K. M. Winchell, and L. J. Revell. 2016. Tails of the city: Caudal autotomy in the tropical lizard, *Anolis cristatellus*, in urban and natural areas of Puerto Rico. *Journal of Herpetology* 50: 435-441. ➤
- Reynolds, R. G., D. C. Collar, S. A. Pasachnik, M. L. Niemiller, A. R. Puente-Rolón, and L. J. Revell. 2016. Ecological specialization and morphological diversification in Greater Antillean boas. *Evolution* 70: 1882–1895. ➤
- Winchell, K. M., R. G. Reynolds, S. Prado-Irwin, A. R. Puente-Rolón, and L. J. Revell. 2016. Phenotypic shifts in urban areas in the tropical lizard, *Anolis cristatellus*. *Evolution* 70: 1009-1022. ➤
- Harrison, A. S., L. J. Revell, and J. B. Losos. 2015. Correlated evolution of microhabitat, morphology, and behavior in West Indian *Anolis* lizards: A test of the habitat matrix model. *Behaviour* 152: 1187-1207. ➤
- Revell, L. J., D. L. Mahler, R. G. Reynolds, and G. J. Slater. 2015. Placing cryptic, recently extinct, or hypothesized taxa into an ultrametric phylogeny using continuous character data: A case study with the lizard *Anolis roosevelti*. *Evolution* 69: 1027-1035. ➤
- Reynolds, R. G., A. R. Puente-Rolón, R. Platenberg, K. Tyler, P. J. Tolson, and L. J. Revell. 2015. Large divergence and low diversity suggest genetically informed conservation strategies for the endangered Virgin Islands Boa (*Chilabothrus monensis*). *Global Ecology and Conservation* 3: 487-502. ➤
- Collar, D. C., P. C. Wainwright, M. E. Alfaro, L. J. Revell, and R. S. Mehta. 2014. Biting disrupts integration to spur skull evolution in eels. *Nature Communications* 5: 5505. ➤
- Stuart, Y. E., T. S. Campbell, R. G. Reynolds, P. A. Hohenlohe, L. J. Revell, and J. B. Losos. 2014. Rapid evolution of a native species following invasion by a congener. *Science* 346: 463-466. ➤
- Revell, L. J., and S. A. Chamberlain. 2014. Rphylip: An R interface for PHYLIP. *Methods in Ecology and Evolution* 5: 976-981. ➤
- Revell, L. J. 2014. Graphical methods for visualizing comparative data on phylogenies. Chapter 4 in *Modern phylogenetic comparative methods and their application in evolutionary biology: Concepts and practice* (L. Z. Garamszegi ed.). ➤
- Reynolds, R. G., A. R. Puente-Rolón, M. Barandiaran, and L. J. Revell. 2014. Hispaniolan boa (*Chilabothrus striatus*) on Vieques Island, Puerto Rico. *Herpetology Notes* 7: 121-122. ➤
- Revell, L. J. 2014. Ancestral character estimation under the threshold model from quantitative

- genetics. *Evolution* 68: 743-759. ➤
- Reynolds, R. G., M. L. Niemiller, and L. J. Revell. 2014. Toward a tree-of-life for the boas and pythons: Multilocus species-level phylogeny with unprecedented taxon sampling. *Molecular Phylogenetics and Evolution* 71: 201-213. ➤
- Revell, L. J. 2013. Two new graphical methods for mapping trait evolution on phylogenies. *Methods in Ecology and Evolution* 4: 754-759. ➤
- Mahler, D. L., T. Ingram, L. J. Revell, and J. B. Losos. 2013. Exceptional convergence on the macroevolutionary landscape in island lizard radiations. *Science* 341: 292-295. ➤
- Reynolds, R. G., M. L. Niemiller, S. B. Hedges, A. Dornburg, A. R. Puente-Rolón and L. J. Revell. 2013. Molecular phylogeny and historical biogeography of West Indian boid snakes (*Chilabothrus*). *Molecular Phylogenetics and Evolution* 68: 461-470. ➤
- Puente-Rolón, A. R., R. G. Reynolds, and L. J. Revell. 2013. Preliminary genetic analysis supports cave populations as targets for conservation in the endemic endangered Puerto Rican boa (Boidae: *Epicrates inornatus*). *PLoS ONE* 8: e63899. ➤
- Muñoz, M. M., N. G. Crawford, T. J. McGreevy, N. J. Messana, R. D. Tarvin, L. J. Revell, R. M. Zandvliet, J. M. Hopwood, E. Mock, A. L. Schneider, and C. J. Schneider. 2013. Divergence in coloration and the evolution of reproductive isolation in the *Anolis marmoratus* species complex. *Molecular Ecology* 22: 2668-2682. ➤
- Reynolds, R. G., A. R. Puente-Rolón, R. N. Reed, and L. J. Revell. 2013. Genetic analysis of a novel invasion of Puerto Rico by an exotic constricting snake. *Biological Invasions* 15: 953-959. ➤
- Revell, L. J. 2013. A comment on the use of stochastic character maps to estimate evolutionary rate variation in a continuously valued trait. *Systematic Biology* 62: 339-345. ➤
- Revell, L. J. and R. G. Reynolds. 2012. A new Bayesian method for fitting evolutionary models to comparative data with intraspecific variation. *Evolution* 66: 2697-2707. ➤
- Revell, L. J. 2012. phytools: An R package for phylogenetic comparative biology (and other things). *Methods in Ecology and Evolution* 3: 217-223. ➤
- Slater, G. J., L. J. Harmon, D. Wegmann, P. Joyce, L. J. Revell, and M. E. Alfaro. 2012. Fitting models of continuous trait evolution to incompletely sampled comparative data using Approximate Bayesian Computation. *Evolution* 66: 752-762. ➤
- Sanger, T. J., L. J. Revell, J. J. Gibson-Brown, and J. B. Losos. 2012. Repeated modification of early limb morphogenesis programs underlies the evolution of relative long bone length variation among *Anolis* lizards. *Proceedings of the Royal Society, B* 279: 739-748. ➤
- Revell, L. J., D. L. Mahler, P. R. Peres-Neto, and B. D. Redelings. 2012. A new phylogenetic method for identifying exceptional phenotypic diversification. *Evolution* 66: 135-146. ➤
- Kolbe, J. J., L. J. Revell, B. Székely, E. D. Brodie III, and J. B. Losos. 2011. Convergent evolution of phenotypic integration and its alignment with morphological diversification in Caribbean *Anolis* ecomorphs. *Evolution* 65: 3608-3624. ➤
- Revell, L. J. 2010. Phylogenetic signal and linear regression on species data. *Methods in Ecology and Evolution* 1: 319-329. ➤
- Mahler, D. L., L. J. Revell, R. E. Glor, and J. B. Losos. 2010. Ecological opportunity and the rate of morphological evolution in the diversification of Greater Antillean anoles. *Evolution* 64: 2731-2745. ➤
- Lindenfors, P., L. J. Revell, and C. L. Nunn. 2010. Sexual dimorphism in primate aerobic capacity: A phylogenetic test. *Journal of Evolutionary Biology* 23: 1183-1194. ➤
- Johnson, M. A., L. J. Revell, and J. B. Losos. 2010. Behavioral convergence and adaptive

- radiation: Effects of habitat use on territorial behavior. *Evolution* 64: 1151-1159. ➤
- Lovely, K. R., D. L. Mahler, and L. J. Revell. 2010. The rate and pattern of tail autotomy in five species of Puerto Rican anoles. *Evolutionary Ecology Research* 12: 67-88. ➤
- Revell, L. J., D. L. Mahler, J. R. Sweeney, M. Sobotka, V. E. Fancher, and J. B. Losos. 2010. Nonlinear selection and the evolution of variances and covariances for continuous characters in an anole. *Journal of Evolutionary Biology* 23: 407-421. ➤
- Revell, L. J. 2009. Size-correction and principal components for interspecific comparative studies. *Evolution* 63: 3258-3268. ➤
- Revell, L. J. and D. C. Collar. 2009. Phylogenetic analysis of the evolutionary correlation using likelihood. *Evolution* 63: 1090-1100. ➤
- Revell, L. J., L. J. Harmon, and D. C. Collar. 2008. Phylogenetic signal, evolutionary process, and rate. *Systematic Biology* 57: 591-601. ➤
- Revell, L. J. 2008. On the analysis of evolutionary change along single branches in a phylogeny. *American Naturalist* 172: 140-147. ➤
- Revell, L. J., and L. J. Harmon. 2008. Testing quantitative genetic hypotheses about the evolutionary rate matrix for continuous characters. *Evolutionary Ecology Research* 10: 311-331. ➤
- Revell, L. J., and A. S. Harrison. 2008. PCCA: A program for phylogenetic canonical correlation analysis. *Bioinformatics* 24: 1018-1020. ➤
- Johnson, M. A., M. Leal, L. Rodríguez Schettino, A. Chamizo Lara, L. J. Revell, and J. B. Losos. 2008. A phylogenetic perspective on foraging mode evolution in West Indian *Anolis* lizards. *Animal Behaviour* 75: 555-563. ➤
- Revell, L. J., M. A. Johnson, J. A. Schulte II, J. J. Kolbe, and J. B. Losos. 2007. A phylogenetic test for adaptive convergence in rock-dwelling lizards. *Evolution* 61: 2898-2912. ➤
- Revell, L. J. 2007. Testing the genetic constraint hypothesis in a phylogenetic context: A simulation study. *Evolution* 61: 2720-2727. ➤
- Revell, L. J. 2007. The G matrix under fluctuating correlational mutation and selection. *Evolution* 61: 1857-1872. ➤
- Revell, L. J., L. J. Harmon, R. B. Langerhans, and J. J. Kolbe. 2007. A phylogenetic approach to determining the importance of constraint on phenotypic evolution in the neotropical lizard *Anolis cristatellus*. *Evolutionary Ecology Research* 9: 261-282. ➤
- Revell, L. J., L. J. Harmon, and R. E. Glor. 2005. Underparameterized model of sequence evolution leads to bias in the estimation of diversification rates from molecular phylogenies. *Systematic Biology* 54: 973-983. ➤

SUBMITTED ARTICLES:

- Revell, L. J. and M. Leal. Reproductive character displacement in an ecological community. Submitted to *Evolution*.
- Betancur-R., R., X. Vélez-Zauzo, I. Winkelmann, L. J. Revell, M. T. P. Gilbert, and R. Papa. Intraspecific phylogenies can be reconstructed from events spanning contemporary timescales using genome-wide data: A study case of the lionfish invasion of the Caribbean. Submitted to *Molecular Ecology*.
- Bawa, K. S., T. Ingty, L. J. Revell, and K. N. Shiva Prakash. Correlated evolution of flower size and seed number in flowering plants. Submitted to *Annals of Botany*.

- Quach, Q. N., R. G. Reynolds, and L. J. Revell. Historical allopatry and secondary contact or primary intergradation in the Puerto Rican Crested Anole, *Anolis cristatellus*, on Vieques Island. Submitted to *Biological Journal of the Linnean Society*.
- Winchell, K. M., D. Briggs, and L. J. Revell. Perils of city life: Patterns of injury and fluctuating asymmetry in urban lizards. Submitted to *Biological Journal of the Linnean Society*.
- Revell, L. J., K. Schliep, E. Valderrama, and J. E. Richardson. Graphs in phylogenetic comparative analysis: Anscombe's quartet revisited. Submitted to *Methods in Ecology and Evolution*.
- Revell, L. J. Comparing the rates of speciation and extinction between phylogenetic trees. Submitted to *Ecology and Evolution*.
-

SOFTWARE (latest public release only):

- Revell, L. J. 2011-17. phytools: Phylogenetic tools for comparative biology (and other things). R package version 0.6-53. <http://CRAN.R-project.org/package=phytools>; <https://github.com/liamrevell/phytools>; and <http://blog.phytools.org>.
- Revell, L. J. 2017. ishihara: Ishihara color-vision test. R package version 0.1. <http://github.com/liamrevell/ishihara>.
- Revell, L. J. 2017. physketch: Drawing phylogenetic objects in R environment. R package version 0.1. <http://github.com/liamrevell/physketch>.
- Revell, L. J. 2012-17. PopGen: Population genetic simulations & numerical analysis. R package version 0.3. <http://github.com/liamrevell/PopGen>.
- Revell, L. J. and S. A. Chamberlain. 2013-14. Rphylip: An R interface for PHYLIP. R package version 0.1-26. <http://CRAN.R-project.org/package=Rphylip>; and <http://github.com/liamrevell/Rphylip>.
- Revell, L. J. 2008. pcca: A program for phylogenetic canonical correlation analysis. <http://faculty.umb.edu/liam.revell/programs> (no longer supported).
- Revell, L. J. 2006. IDC: A program for the calculation of independent contrasts. <http://faculty.umb.edu/liam.revell/programs> (no longer supported).
- Revell, L. J. 2006. skewers: A program for Cheverud's random skewers method of matrix comparison. <http://faculty.umb.edu/liam.revell/programs> (no longer supported).
- Revell, L. J. 2006. multi_mantel: A program for multiple matrix regression and hypothesis testing. <http://faculty.umb.edu/liam.revell/programs> (no longer supported).
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INVITED AND CONTRIBUTED PRESENTATIONS:

- Revell, L. J. 2018. Herramientas filogenéticas por la biología comparada. Universidad Católica de la Santísima Concepción, invited seminar. Concepción, Chile.
- Revell, L. J. 2017. Dos nuevos métodos filogenéticos aplicados a casos herpetológicos. VIII Congreso Chileno de Herpetología, invited plenary. Concepción, Chile.
- Revell, L. J. 2017. Some additional new methods for plotting phylogenies & comparative data. SSE, SSB, ASN Joint Meeting ('Evolution'), Portland, Oregon.
- Revell, L. J. 2017. Respuestas evolutivas a la urbanización en una lagartija caribeña. Instituto de Ciencias Naturales, Universidad Nacional de Colombia, invited seminar.

- Revell, L. J. 2016. Evolución en respuesta a la urbanización en la lagartija puertorriqueña, *Anolis cristatellus*. Centro Regional Universitario Bariloche, Universidad Nacional del Comahue, invited seminar.
- Revell, L. J. 2016. Evolución y ecología de las lagartijas del género *Anolis* en áreas urbanas del Caribe. 1er Congreso Colombia de Herpetología, invited plenary, Medellín, Colombia.
- Revell, L. J. 2016. Phylogenetic tools for studying diversification in the tree of life. University of Florida, Gainesville, invited seminar.
- Revell, L. J. 2016. Evolución en respuesta a la urbanización en la lagartija puertorriqueña, *Anolis cristatellus*. Universidad de los Andes, Bogotá, Colombia, invited seminar.
- Revell, L. J. 2016. Herramientas filogenéticas para estudiar la diversificación fenotípica en el árbol de la vida. Biomix lab group, invited seminar. Universidad de los Andes, Bogotá, Colombia.
- Revell, L. J., K. P. Schliep, and C. E. Hernández Ulloa. 2016. Consensus trees and their suitability for macroevolutionary analysis. SSE, SSB, ASN Joint Meeting ('Evolution'), Austin, Texas.
- Revell, L. J. 2015. La ecología y la evolución de *Anolis cristatellus* en áreas urbanas de Puerto Rico. Universidad Austral de Chile, Valdivia Chile, invited seminar.
- Revell, L. J. 2015. La ecología y la evolución del lagartijo caribeño, *Anolis cristatellus*, en áreas urbanas de Puerto Rico. Invited plenary, XVI Congreso Argentino de Herpetología, San Miguel de Tucumán, Argentina.
- Revell, L. J. 2015. Phylogenetic tools for studying phenotypic diversification in the tree of life. Stony Brook University, invited seminar.
- Revell, L. J. 2015. La ecología y la evolución del lagartijo *Anolis cristatellus* en áreas urbanas de Puerto Rico. University of Puerto Rico Laboratory for Integrative Ecology, invited seminar. University of Puerto Rico, Río Piedras.
- Revell, L. J. 2014. Placing cryptic, recently extinct, or hypothesized taxa into an ultrametric phylogeny using continuous character data. Modern Phylogenetic Comparative Methods, Sevilla, Spain, invited seminar.
- Revell, L. J. 2014. Phylogenetic tools for studying phenotypic diversification in the tree of life. University of Massachusetts Boston Special Junior Faculty Seminar Series, invited seminar; American Museum of Natural History, Richard Gilder Graduate School invited seminar.
- Revell, L. J. 2014. Evolutionary approaches for studying global environmental change. Claremont McKenna College, Claremont, California, invited Brown Bag Lunch seminar.
- Revell, L. J. 2014. Ancestral state reconstruction; *and* Discrete characters and threshold models *in* Evolutionary Quantitative Genetics 2014, A NIMBioS Tutorial. S. Arnold and J. Felsenstein (co-organizers). Knoxville, Tennessee (slides & exercises ➤).
- Revell, L. J. 2014. Placing cryptic, recently extinct, or hypothesized taxa into an ultrametric phylogeny using continuous character data: A case study. SSE, SSB, ASN Joint Meeting ('Evolution'), Raleigh, North Carolina.
- Revell, L. J. 2014. Ancestral state reconstruction; *and* Analyzing discrete & continuous characters: The threshold model *in* AnthroTree Workshop 2014. C. Nunn (organizer). Durham, North Carolina (slides & exercises ➤).
- Revell, L. J. 2014. Evolutionary approaches for studying global environmental change. North Carolina State University, Raleigh, invited seminar.
- Revell, L. J. 2013. Phylogenetic methods for studying phenotypic diversification in the tree of

- life. University of Puerto Rico, Río Piedras, invited seminar.
- Revell, L. J., K. M. Winchell, J. J. Kolbe, and D. A. Warner. 2013. Evolución en respuesta a la urbanización en el lagartijo común de Puerto Rico, *Anolis cristatellus*. IV Simposio de Herpetología Puertorriqueña, Arecibo, Puerto Rico.
- Revell, L. J. 2013. Ancestral character estimation under the threshold model from quantitative genetics. Mathematics for an Evolving Biodiversity, Montreal Quebec, invited seminar.
- Revell, L. J. 2013. Ancestral state reconstruction in NESCent Academy: Evolutionary Quantitative Genetics 2013. S. Arnold and J. Felsenstein (co-organizers). Durham, North Carolina (slides ➤; computer tutorial ➤).
- Revell, L. J. 2013. New graphical methods for visualizing comparative data on phylogenies. SSE, SSB, ASN Joint Meeting ('Evolution'), Snowbird, Utah.
- Revell, L. J. 2013. New tools for studying macroevolution on phylogenies. University of Colorado Boulder, invited seminar; University of North Carolina - Chapel Hill, invited seminar.
- Revell, L. J. 2012. Phylogenetic approaches for studying adaptive radiation: New tools in comparative biology. Clark University, invited seminar.
- Revell, L. J. 2012. Testing methods and comparing models using continuous and discrete character simulation; and Likelihood and Bayesian approaches for multi-rate and multivariate models of character evolution in NESCent Academy: Evolutionary Quantitative Genetics 2012. S. Arnold and J. Felsenstein (co-organizers). Durham, North Carolina (slides ➤; phytools demo ➤).
- Revell, L. J. 2012. New phylogenetic methods for studying the phenotypic axis of adaptive radiation. Imperial College London, invited seminar.
- Revell, L. J. 2012. ASN Young Investigator Prize: New tools for the phylogenetic analysis of phenotypic trait data. Joint Congress on Evolutionary Biology ('Evolution'), Ottawa, Ontario.
- Revell, L. J. 2012. SSB Symposium: The various sources of error and their effects on phylogenetic comparative analyses. Joint Congress on Evolutionary Biology ('Evolution'), Ottawa, Ontario. (Symposium co-organizer with Cécile Ané.)
- Revell, L. J. 2012. Introduction to phytools mini-workshop. University of California, Los Angeles (workshop notes ➤).
- Revell, L. J. 2012. Analyzing continuous character evolution on a phylogeny. Society for Integrative and Comparative Biology, Charleston, South Carolina (slides ➤).
- Revell, L. J. and K. P. Schliep. 2011. Introduction to phytools and phangorn: Phylogenetic tools for R. Phyloseminar.org: Free online seminars about phylogenetics (recorded ➤).
- Revell, L. J. 2011. Phylogenetic methods for studying the phenotypic axis of adaptive radiation. SSE, SSB, ASN Joint Meeting ('Evolution'), Norman, Oklahoma.
- Revell, L. J. 2011. New tools for phylogenetic comparative biology. University of Massachusetts Lowell, invited seminar.
- Revell, L. J. 2010. Phylogenetic signal in comparative biology. College of Charleston, invited seminar.
- Revell, L. J. 2010. Phylogenetic signal and the analysis of interspecies data. Society for the Study of Evolution Joint Meeting, Portland, Oregon.
- Revell, L. J. 2010. Alternative paradigms in phylogenetic comparative biology. University of Massachusetts Boston, invited seminar; University Program in Ecology, Duke University, invited seminar; University of Quebec at Montreal, invited seminar.

- Revell, L. J., K. R. Lovely, and D. L. Mahler. 2010. Predation and tail autotomy in *Anolis* lizards. Society for Integrative and Comparative Biology, Seattle, Washington.
- Revell, L. J. 2009. Ecology and evolution of tail autotomy in several lizard species. NESCent Brown Bag Lunch seminar, Durham, North Carolina.
- Revell, L. J. 2009. Some multivariate comparative methods for continuous characters. SSE, SSB, ASN Joint Meeting ('Evolution'), Moscow, Idaho.
- Revell, L. J., D. C. Collar, and L. J. Harmon. 2009. The measurement and interpretation of phylogenetic signal. Society for Integrative and Comparative Biology, Boston, Massachusetts.
- Revell, L. J. 2008. Phylogenetic comparative methods and quantitative genetic constraint. SSE, SSB, ASN Joint Meeting ('Evolution'), Minneapolis, Minnesota.
- Revell, L. J. 2007. Bringing phylogenetic comparative approaches to the study of quantitative genetic constraint. SSE, SSB, ASN Joint Meeting ('Evolution'), Christchurch, New Zealand.
- Revell, L. J. 2006. Constraint and the evolution of a Caribbean anole, *Anolis cristatellus*. American Society of Ichthyologists and Herpetologists Joint Meeting, New Orleans, Louisiana.
- Revell, L. J. 2005. Quantitative genetics in anoles: A preliminary analysis. University of Puerto Rico, Río Piedras, invited seminar.
- Revell, L. J. and C. J. Schneider. 2004. Sensory drive and population divergence in *Anolis marmoratus*. American Society of Ichthyologists and Herpetologists Joint Meeting, Norman, Oklahoma.

GRANTS, HONORS, AWARDS:

- 2017 NSF ABI Development: Computational infrastructure for phylogenetic & macroevolutionary analysis in the R environment. *Submitted*. (Co-written with Klaus Schliep.)
- 2016-2018 NSF Dissertation Research: Adaptive responses to urbanization in the tropical lizard *Anolis cristatellus* (Co-PI Kristin Winchell) (\$19,756).
- 2014 American Society of Naturalists Workshop Sponsorship for Latin American Macroevolutionary Analysis Workshop. Universidad de los Andes, Bogotá, Colombia (with L. Harmon, Univ. Idaho, & A. Crawford, U. los Andes) (\$1,400).
- 2014-2019 NSF CAREER: Phylogenetic tools for studying phenotypic diversification in the tree of life (\$852,556).
- 2014-2017 NSF Collaborative Research: Urban adaptation and its role in the success of biological invasion in *Anolis* lizards (co-PI with J. Kolbe, Univ. Rhode Island, & D. Warner, Univ. Alabama, Birmingham) (\$296,420).
- 2012 American Society of Naturalists Jasper Loftus-Hills Young Investigator Prize (\$1700, article ➤).
- 2009 Best Student Oral Presentation, Division of Systematics and Evolutionary Biology, SICB annual meeting (\$150).
- 2008 David Rockefeller Center for Latin American Studies (Harvard) Term-Time Research Travel Grant for a research trip to Puerto Rico (\$1,500).

- Museum of Comparative Zoology (Harvard) Putnam Expedition Grant for a comparative analysis of phenotypic and genetic differentiation in two species of Puerto Rican anoles (\$3,000).
- National Science and Engineering Research Council of Canada (NSERC) post-doctoral fellowship (\$80,000 CDN; declined).
- 2007 Museum of Comparative Zoology (Harvard) Putnam Expedition Grant for the study of natural selection in a Puerto Rican lizard (\$8,300).
- 2006-2008 National Science Foundation Doctoral Dissertation Improvement Grant (DDIG) for the study of natural selection and quantitative genetics in a Puerto Rican lizard (Co-PI with Jonathan Losos) (\$11,690).
- 2003 Phi Beta Kappa, Boston University.
Boston University E. Ray Speare male scholar athlete of the year.
Boston University UROP Faculty Matching Grant for the study of evolution in a Guadeloupean lizard (\$2,000).
- 2001 Boston University UROP summer research fellowship for the study of behavioral ecology and evolution in a Guadeloupean lizard (\$3,500).

TEACHING EXPERIENCE:

- Instructor, Macroevolución y uso de métodos comparados en R, Dec. 18-21, 2017. Universidad Bernardo O'Higgins, Santiago, Chile.
- Instructor, Inferencia y uso de filogenias en R, Nov. 20-21, 2017. Universidad de Concepción, Concepción, Chile.
- Instructor, Introducción a los métodos comparativos filogenéticos en R, Aug. 14-16, 2017. COLEVOL 2017. Universidad del Valle, Cali, Colombia.
- Co-instructor & co-organizer (with L. J. Harmon, R. Betancur, S. Benitez-Vieyra, and M. Strelin), Latin American Macroevolutionary Analysis Workshop, Aug. 1-4, 2017. Universidad Nacional de Córdoba, Córdoba, Argentina.
- Co-instructor (with A. R. Puente-Rolón), Biology 359: Tropical Ecology, Evolution, and Conservation Biology, University of Massachusetts Boston, Winter 2017.
- Instructor, Una introducción a los métodos comparativos filogenéticos en R, Dec. 12-16, 2016. Centro Regional Universitario Bariloche, Universidad Nacional del Comahue, Bariloche, Argentina.
- Instructor, CBIO 3442: Métodos filogenéticos en R. Universidad de los Andes, Bogotá, Fall 2016.
- Co-instructor & co-organizer (with L. J. Harmon, M. E. Alfaro, and R. Betancur), Latin American Macroevolutionary Analysis Workshop, Jun. 28-Jul. 1, 2016. San Juan, Puerto Rico.
- Regular guest instructor (primary instructor R. Betancur), Biology 6120: Phylogenetic Systematics, University of Puerto Rico, Spring 2016. (Five guest lectures.)
- Instructor, Using phytools (and other R packages) to study macroevolution on phylogenies, Mar. 14-17, 2016. Transmitting Science, Els Hostalets de Pierola, Spain.
- Co-instructor (with A. R. Puente-Rolón), Biology 359: Tropical Ecology, Evolution, and Conservation Biology, University of Massachusetts Boston, Winter 2016.
- Instructor, Adaptación, filogenias, y el método comparado (Taller en métodos comparados

filogenéticos), Dec. 14-16, 2015. Universidad Austral de Chile, Valdivia, Chile.

Instructor, Biology 348: Animal Behavior, University of Massachusetts Boston, Fall 2015.

Instructor, Biology 634: Methods in Phylogenetic and Macroevolutionary Analysis, University of Massachusetts Boston, Fall 2013.

Instructor, Una introducción a los métodos comparativos filogenéticos usando el paquete R phytools, Oct. 1, 2015. XVI Congreso Argentino de Herpetología, San Miguel de Tucumán, Argentina. (Single-day workshop.)

Co-instructor & co-organizer (with A. Gonzalez-Voyer), Una introducción a los métodos comparativos filogenéticos en R, Aug. 25-28, 2015. Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico.

Co-instructor & co-organizer (with L. J. Harmon and M. E. Alfaro), Latin American Macroevolutionary Analysis Workshop, Jul. 2-5, 2015. Ilhabela, Sao Paulo, Brazil.

Introduction to Statistics in R Graduate Workshop, University of Puerto Rico – Mayagüez, May 2015. (Single-day workshop.)

Regular guest instructor (primary instructor R. Betancur), Biology 6120: Phylogenetic Systematics, University of Puerto Rico, Spring 2015. (Seven guest lectures.)

Co-instructor (with A. R. Puente-Rolón), Biology 359: Tropical Ecology, Evolution, and Conservation Biology, University of Massachusetts Boston, Winter 2015.

Instructor, Biology 348: Animal Behavior, University of Massachusetts Boston, Fall 2014.

Co-instructor & co-organizer (with L. J. Harmon and A. J. Crawford), Latin American Macroevolutionary Analysis Workshop, Jul. 8-11, 2014. Universidad de los Andes, Bogotá, Colombia.

Instructor, Biology 348: Animal Behavior, University of Massachusetts Boston, Spring 2014.

Co-instructor (with A. R. Puente-Rolón), Biology 359: Tropical Ecology, Evolution, and Conservation Biology, University of Massachusetts Boston, Winter 2014.

Instructor, Biology 697: Methods in Phylogenetic and Macroevolutionary Analysis, University of Massachusetts Boston, Fall 2013.

Instructor, Biology 348: Animal Behavior, University of Massachusetts Boston, Spring 2013.

Co-instructor (with A. R. Puente-Rolón), Biology 381: Caribbean Tropical Biology, University of Massachusetts Boston, Winter 2013.

Instructor, Biology 352: Evolution, University of Massachusetts Boston, Spring 2012.

Instructor, Biology 697: Applied Phylogenetic Methods, University of Massachusetts Boston, Spring 2011.

Volunteer tutor and teaching assistant, Cambridge School Volunteers (CSV), Cambridge Rindge and Latin School, Spring 2008 – Spring 2009.

Teaching assistant, Environmental Studies, Washington University in St. Louis, Spring 2006.

Teaching assistant, Environmental Studies: Biology, Washington University in St. Louis, Fall 2005.

Teaching assistant, Behavioral Ecology, Washington University in St. Louis, Spring 2005.

STUDENT & POSTDOC MENTORING:

UNDERGRADUATE STUDENTS: Laura D'Andrea (Washington University), 2005-2006; Molly Sobotka (Washington University), 2006; Victoria Fancher (Washington University), 2006; Jonathan Sweeney (Reed College), 2007; Hannah Frank (Harvard University), 2008-2009; Karen

Lovely (Harvard University), 2008-2009; Jillian Newman (Northeastern University), 2011-2013; Tiara Butler-Smith (University of Massachusetts Boston), 2011-2013; Karen Kolodzaïke (University of Massachusetts Boston), 2012-present; Sofia Prado-Irwin (Barnard College), 2012; Siedeh Rezaei-Kamalabad (University of Massachusetts Boston (2013); Kathrin Nye (University of Massachusetts Boston), 2013; Ellen Lapuck (University of Massachusetts Boston), 2013-2014; Tanner Strickland (Harvard University), 2013-2014; Kirsten Tyler (University of Massachusetts Boston), 2013-2015; Maia Titcomb (University of Massachusetts Boston), 2013-2014; Jason Fredette (University of Massachusetts Boston), 2014-2015; Derek Briggs (University of Massachusetts Boston), 2015-2017.

GRADUATE STUDENTS: Kristin Winchell (University of Massachusetts Boston), 2011-present; Quynh Quach (University of Massachusetts Boston), 2014-2016; Kevin Avilés-Rodríguez (University of Massachusetts Boston), 2015-present.

POSTDOCTORAL RESEARCHERS: Graham Reynolds (University of Massachusetts Boston / Harvard University), 2011-2015; David Collar (University of Massachusetts Boston), 2014-2015; Klaus Schliep (University of Massachusetts Boston), 2014-present.

THESIS/DISSERTATION TITLES:

R. Kirsten Tyler. B. A. University of Massachusetts Boston. “Tails of the city: Caudal autotomy in the tropical lizard, *Anolis cristatellus*, in urban and natural areas of Puerto Rico.” (December 2014)

Quynh Quach. M. Sc. University of Massachusetts Boston. “Historical allopatry and secondary contact or primary intergradation in the Puerto Rican crested anole, *Anolis cristatellus*, on Vieques Island.” (July 2016)

SERVICE & SOCIETY MEMBERSHIP:

ASSOCIATE EDITOR: *Methods in Ecology and Evolution* (2013-2015), *Evolution* (2015-2017).

EDITORIAL BOARD MEMBER: *Systematic Biology* (2011-present).

REVIEWER FOR: *American Naturalist*, *Belgian Journal of Zoology*, *Bioinformatics*, *Biological Reviews*, *Biology Letters*, *BMC Evolutionary Biology*, *Centre de Synthèse et d'Analyse de la Biodiversité* (external reviewer), *Comprehensive Physiology*, *Ecography*, *Ecological Applications*, *Ecology Letters*, *Evolution*, *Evolutionary Ecology*, *Functional Ecology*, *Journal of the Royal Society Interface*, *Methods in Ecology and Evolution*, *Molecular Ecology Notes*, *National Science Foundation* (external reviewer & panelist), *Physiological and Biochemical Zoology*, *PLoS ONE*, *Proceedings of the Royal Society B*, *Systematic Biology*, *Systematic Botany*, *Trends in Ecology and Evolution*, and others.

SOCIETY MEMBERSHIP: American Society of Naturalists (Workshop Committee member, 2016-present), Society for the Study of Evolution, Society of Systematic Biologists (Lifetime member; SSB Council, 2016-present)