

Luke J. Harmon

Curriculum Vitae

Academic employment

2017 –	Full Professor
2012 – 2017	Associate Professor
2007 – 2012	Assistant Professor Department of Biological Sciences Adjunct, Department of Statistics Affiliated faculty, Bioinformatics and Computational Biology University of Idaho, Moscow, Idaho
2016	Sabbatical Scholar, eawag Aquatic Research Institute, Switzerland
2013-current	Adjunct Professor, University of Bern
2005-2007	Postdoctoral Fellow, Biodiversity Research Centre University of British Columbia, Vancouver, B.C. Supervisor: Dr. Dolph Schluter

Education

2000-2005	Washington University, St. Louis, MO Ph. D. in Evolution, Ecology, and Population Biology Advisor: Dr. Jonathan Losos
1994-1998	Iowa State University, Ames, IA B.S. with honors, summa cum laude Major: Zoology Minor: Mathematics

Awards

2019	University of Idaho College of Science Advisory Board Faculty Fellowship
2018-2019	ISI Highly Cited Researcher
2011	Early-Career Faculty Award, University of Idaho
2009	Young Investigators Prize, American Society of Naturalists
2006	Just Desserts Award (for services to graduate students), University of British Columbia

Grants and fellowships

2018-2023	NSF, “Collaborative Research: Framework: Software: HDR: Reproducible Visual Analysis of Multivariate Networks with MultiNet” (\$48,720)
2015-2017	NSF DEB, Special Creativity Supplement, “Collaborative Research: arbor: Comparative Analysis Workflows for the Tree of Life” (\$542,969)
2012-2015	NSF DEB, “Collaborative Research: arbor: Comparative Analysis Workflows for the Tree of Life” (co-PIs Robert Thacker, Chelsea Specht, Curtis Lisle, and Jorge Soberon; total \$4,000,000, Harmon lab budget \$921,602)
2011-2012	NSF BEACON, “The Genetic Architecture of Multidimensional Adaptation and Speciation” (co-PIs Jenny Boughman and Erica Rosenblum; total \$96,900, Harmon lab budget \$1,500)
2011-2012	NSF BEACON, “Mystery of Mysteries” (co-PIs Jenny Boughman, Rich Lenski, and Barrie Williams; total \$165,353, Harmon lab budget \$3,442)

2011-2012	NSF BEACON, “Long-term consequences of evolution in action examined over a phylogeny” (co-PI Joe Felsenstein; total \$132,794, Harmon lab budget \$65,306)
2009-2011	NIH COBRE Administrative Supplement, “Evolution of Antibiotic Resistance in Bacterial Biofilms” (co-PI Erica Rosenblum; total \$399,488, Harmon lab budget \$199,488)
2009-2013	NSF DEB, “Collaborative Research: Tempo and Mode of Diversification in Vertebrates” (co-PI Mike Alfaro; total \$720,204, Harmon lab budget \$462,704)
2009-2013	NSF DEB, “RUI: REVSYS: Integrative Systematics of Gekkotan Lizards - Phylogenetic Resolution, Taxonomic Revision, and Comparative Biology” (PIs: Bauer and Jackman; total \$909,212; Harmon lab subcontract: \$45,923)
2009-2010	NIH COBRE pilot grant, University of Idaho, \$39,726
2009	Short-term sabbatical award: Integrating Fossil and Molecular Data in the Study of Diversification, NESCent, Duke University, Durham, NC
2008-2009	NIH COBRE pilot grant addendum, University of Idaho, \$22,500
2008-2009	NIH COBRE pilot grant, University of Idaho, \$39,720
2005-2007	Biodiversity Postdoctoral Fellowship, University of British Columbia, \$84,000
2002-2005	National Science Foundation Dissertation Improvement Grant, \$10,800
2001-2004	National Science Foundation Graduate Research Fellowship

Teaching experience

2017-present	Lecturer, Biology 504 (Comparative Methods), University of Idaho
2007-present	Lecturer, Biology 489 (Herpetology), University of Idaho
2013-2016	Co-instructor, Interdisciplinary Studies 400 (Film), University of Idaho
2010-2013	Lecturer, Biology 213 (Principles of Biological Structure and Function), University of Idaho
2009-2013	Seminar leader, Macroevolution, University of Idaho and Washington State University
2011-2012	Co-instructor, Evolutionary Quantitative Genetics course. At NESCent with Steve Arnold and Joe Felsenstein.
2011	Instructor, Comparative Methods in R; Canadian Society for Ecology and Evolution Annual Meeting, Banff, Canada
2009	Lecturer, Systematics, University of Idaho (co-taught with Jack Sullivan)
2007-2008	Co-instructor (with M. Alfaro), Macroevolution, University of Idaho and Washington State University
2005-2007	Coordinator, Biodiversity Discussion Group, University of British Columbia
2006	Lecturer, Biology 300 (Biometry), University of British Columbia
2001-2003	Teaching Assistant, Washington University (Ecology, Conservation Biology)
1999-2000	Head of Science, and Science Teacher for Forms 4 and 5 Sir Dudley Tuti College, Ysabel Province, Solomon Islands, South Pacific
1995-1996	Leader and Seminar Coordinator, Freshman Honors Program Iowa State University

Professional service activities

2017	President, Society of Systematic Biology
2013-2018	Associate Editor, American Naturalist
2013-present	Associate Editor, Ecology Letters

2012-2018	Associate Editor, Evolution
2011-present	Associate Editor, Systematic Biology
2011-2013	Associate Editor, Methods in Ecology and Evolution
2012-2015	Council member, Society for the Study of Evolution
2011-2014	Council member, Society for Systematic Biology
2005-2006	Coordinator, Ecology and Evolution Retreat, University of British Columbia, University of Victoria, and Simon Fraser University

Invited talks

2020	University of Queensland (Australia); Wayne State University
2019	South African Society for Systematic Biology (plenary); North Idaho Correctional Institution; Oklahoma State University; Moscow High School; Evolution meetings, Providence, RI (symposium speaker); Evo-Eco Retreat, Squamish, BC (plenary speaker)
2018	University of Florida; UC Santa Cruz; II Joint Congress on Evolutionary Biology, Montpellier, France (Presidential address); Cornell University
2017	Washington University in St. Louis; OIST, Okinawa, Japan; International Biogeography Society; Society of Systematic Biology Satellite Meeting; Washington State University
2016	ETH Basel, Switzerland; Institut für Systematische Botanik, UZH, Switzerland; Museum für Naturkind Berlin, Germany; University of Bern, Switzerland; University of Fribourg, Switzerland; University of Konstanz, Germany; iDiv, Leipzig, Germany; Ecole Normale Supérieure, Paris, France; University of Idaho; Stony Brook University
2015	Smithsonian Institution, UC San Diego, Stanford, Brown University, Darwin Day Roadshow in Potlatch, ID, University of Groningen, Netherlands, and the Sasquan World Science Fiction Convention.
2014	Universidad de los Andes, University of Sao Paulo, University of Zurich, American Society of Naturalists (debate participant), University of Idaho UIdeas symposium, TDWG meeting, Sweden
2013	University of Florida, American Museum of Natural History, University of Massachusetts - Boston, University of Lausanne, Université de Montréal, Gonzaga University, University of Idaho - Coeur d'Alene, Coeur d'Alene Science After Hours; ETH Zurich, Washington State University; Symposium speaker, Evolution and ESA
2012	University of Colorado, University of Michigan, Michigan State University, University of Kansas, EAWAG (Switzerland), Universität Basel, UC Davis
2011	University of Chicago, phyloseminar.org (online seminar), BEACON (Michigan State University); Keynote speaker, Symposium, Zoological Society of London
2010	University of California, Berkeley
2009	University of Ottawa, Duke University, University of Texas; Invited symposium speaker, Evolution and ESA
2008	Co-coordinated (with M. Alfaro) and gave presentation in Late Breaking Symposium: Testing Macroevolutionary Hypotheses of Diversification: Approaches and Perspectives, at SICB meetings in San Antonio, TX.

2008	Lewis and Clark University, Washington State University
2007	Harvard University, University of Washington, University of Idaho, Washington State University
2006	University of Victoria, Simon Fraser University, University of Calgary, University of Idaho, Rice University, University of Glasgow, Iowa State University
2005	University of British Columbia

Advising

Current students	D. Jochimsen (PhD); K. Martinet (PhD); B. Siple (PhD)
Current postdocs	O. Schwery (visiting postdoc, supervised by E. Goldberg)
Completed	E. Miller (postdoc, now postdoc at Cornell U); R. Maia (postdoc, now postdoc at Columbia U), K. Hardwick* (PhD, now postdoc at Reed College), M. Pennell (PhD, now faculty at UBC), S. Des Roches* (PhD, now postdoc at UC Santa Cruz), T. Hagey (PhD, now postdoc at U Michigan), J. Brown (postdoc, now postdoc at U Michigan), J. Tyerman (postdoc, now working at Genomatica), J. Rosindell (postdoc, now faculty, Imperial, UK); K. Wagner (postdoc, now a faculty member at U Wyoming), J. Eastman (postdoc, now a firefighter), D. Caetano (PhD, now postdoc at U Arkansas), J. Uyeda (postdoc, now Assistant Professor at Virginia Tech); C. Hinchliff (postdoc, now working for Microsoft); (*coadvised with E. B. Rosenblum)
Committees:	Completed Chris Dekker (UI MS 2014), Chad Brock (WSU MSc, 2009), William Godsoe (UI PhD 2009), Jon Eastman (WSU PhD 2010), Barb Banbury (WSU PhD 2010), Hugo Alamillo (WSU PhD 2010), Cody Hinchliff (WSU PhD 2011), Brice Sarver (UI PhD 2014), Simon Uribe-Convers (UI PhD 2014), Edy Piascik (UBC MS 2014), Hannah Marx (UI PhD 2016), Katie Shine (UI PhD 2016), Gustavo Ferreira (USP Brazil PhD 2017), Diego Morales-Briones (UI PhD 2017), Bob Week (UI PhD), Carl Lundblad (UI PhD), Sarah Jacobs (UI PhD), Megan Ruffley (UI PhD), Sebastian Mortimer (UI MS) In progress David Sneddon (UI PhD), Ian Oiler (UI Phd), Kelly Martin (UI PhD)

Publications

Revell, L. J. and L. J. Harmon. *In review*. Phylogenetic Comparative Methods in R. Under contract with Princeton University Press, expected publication in mid-2021.

Rogers, J., A. H. Patton, L. J. Harmon, A. Lex, and M. Meyer. *In press*. In Insights From Experiments With Rigor in an EvoBio Design Study. IEEE Transactions on Visualization and Computer Graphics.

Gillespie, R.G., Bennett, G., De Meester, L., Fleischer, R.C., Harmon, L., Hendry, A., Knope, M., Mallet, J., Martin, C., Parent, C., Patton, A., Pfennig, K., Rubinoff, D., Schluter, D., Seehausen, O., Shaw, K., Stacy, E., Stervander, M., Stroud, J.T., Wagner, C., Wogan, G. 2020. Comparing adaptive radiations across space, time, and taxa. *Journal of Heredity*, 111(1): 1-20.

Week, B., S. Nuismer, L. J. Harmon, and S. Krone. In review. A white noise approach to evolutionary ecology. Submitted to *Theoretical Population Biology*.

- Patton, A. H., M. J. Margres, B. Epstein, J. Eastman, L. J. Harmon, and A. Storfer. 2020. Hybridizing salamanders experience accelerated diversification. *Scientific Reports* 10: 1-12.
- Harmon, L. J., C. S. Andreazzi, F. Débarre, J. P. Drury, E. E Goldberg, A. B. Martins, C. J. Melián, A. Narwani, S. L. Nuismer, M. W. Pennell, S. M. Rudman, O. Seehausen, D. Silvestro, M. Weber, and B. Matthews. 2019. Detecting the macroevolutionary signal of species interactions. *Journal of Evolutionary Biology* 32: 769-782.
- Ruffley, M., K. Peterson, B. Week, D. C. Tank, and L. J. Harmon. 2019. Identifying models of trait-mediated community assembly using random forests and approximate Bayesian computation. *Ecology and Evolution* 9: 13218-13230.
- Diaz, L. F. H., L. J. Harmon, M. T. C. Sugawara, E. I. Miller, and M. W. Pennell. 2019. Reply to Wiens and Scholl: The time dependency of diversification rates is a widely observed phenomenon. *PNAS* 116: 24401.
- Diaz, L. F. H., L. J. Harmon, M. T. C. Sugawara, E. I. Miller, and M. W. Pennell. 2019. Macroevolutionary diversification rates show time-dependency. *PNAS* 116: 7403-7408.
- Caetano, D. S., and L. J. Harmon. 2018. Estimating correlated rates of trait evolution with uncertainty. *Systematic Biology* 68: 412-429.
- Sarver, B. A. J., M. W. Pennell, J. W. Brown, S. Keeble, K. M. Hardwick, J. Sullivan, and L. J. Harmon. 2019. The choice of tree prior and molecular clock does not substantially affect phylogenetic inferences of diversification rates. *PeerJ* 7: e6334.
- Harmon, L. J. 2018. *Phylogenetic Comparative Methods: Learning from Trees*. Createspace, Moscow, ID.
- Pearse, W. D., A. M. Barbosa, S. A. Fritz, S. A. Keith, L. J. Harmon, J. Harte, D. Silvestro, X. Xiao, T. J. Davies. 2018. Building up biogeography: Pattern to process. *Journal of Biogeography* 45: 1223.
- Melián, C. J., B. Matthews, C. S. de Andreazzi, J. P. Rodríguez, L. J. Harmon, M. A. Fortuna. 2018. Deciphering the Interdependence between Ecological and Evolutionary Networks. *Trends in Ecology and Evolution* 33: 504-512.
- Caetano, D. S., and L. J. Harmon. 2018. ratematrix: an R package for studying evolutionary integration among several traits on phylogenetic trees. *Methods in Ecology and Evolution* 8: 1920.
- Weber, M. G., C. E. Wagner, R. J. Best, L. J. Harmon, and B. Matthews. 2017. Evolution in a community context: on integrating ecological interactions and macroevolution. *Trends in Ecology & Evolution* 32: 291-304.
- Hagey, T. J., J. C. Uyeda, K. E. Crandell, J. A. Cheney, K. Autumn, and L. J. Harmon. 2017. Tempo and mode of performance evolution across multiple independent origins of adhesive toe pads in lizards. *Evolution* 71: 2344-2358.

- Boucher, F. C., V. Démary, E. Conti, L. J. Harmon, and J. Uyeda. 2017. A general model for estimating macroevolutionary landscapes. *Systematic Biology* 67: 304-319.
- Hagey, T. J., S. Harte, M. Vickers, L. J. Harmon, and L. Schwarzkopf. 2017. There's more than one way to climb a tree: Limb length and microhabitat use in lizards with toe pads. *PLoS ONE* 12: e0184641.
- Harmon, Luke J. 2017. Evolution: Contingent Predictability in Mammalian Evolution. *Current Biology* 27: R425-R428.
- Miller, E. T., D. N. Bonter, C. Eldermire, B. G. Freeman, E. Greig, L. J. Harmon, C. Lisle, and W. Hochachka. 2017. Fighting over food unites the birds of North America in a continental dominance hierarchy *Behavioral Ecology* 28: 1454-1463.
- Duchen, P., C. Leuenberger, S. M. Szilágyi, L. J. Harmon, J. Eastman, M. Schweizer, and D. Wegmann. 2017. Inference of evolutionary jumps in large phylogenies using Levy processes. *Systematic Biology* 66: 950-963.
- Botero, C. A., L. J. Harmon, and Q. Atkinson. 2017. The promise and limits of eco-evolutionary studies of human culture: a comment on Sloan Wilson et al. *Religion, Brain, and Behavior* 7: 153-155.
- Miller, E. T., S. K. Wagner, L. J. Harmon, and R. E. Ricklefs. 2017. Radiating despite a Lack of Character: Ecological Divergence among Closely Related, Morphologically Similar Honeyeaters (Aves: Meliphagidae) Co-occurring in Arid Australian Environments. *The American Naturalist* 189: E14-E30.
- Uyeda, J. C., L. J. Harmon, and C. E. Blank. 2016. A comprehensive study of cyanobacterial morphological and ecological evolutionary dynamics through deep geologic time. *PloS one* 11 (9), e0162539.
- Hagey, T. J., J. B. Puthoff, K. E. Crandell, K. Autumn, and L. J. Harmon. 2016. Modeling Observed Animal Performance Using the Weibull Distribution. *Journal of Experimental Biology* 219: 1603-1607.
- Hagey, T. J., N. Cole, D. Davidson, A. Henricks, L. L. Harmon, and L. J. Harmon. 2016. Temporal Variation in Structural Microhabitat Use of *Phelsuma* Geckos in Mauritius. *Journal of Herpetology* 50: 102-107.
- DesRoches, S., L. J. Harmon, and E. B. Rosenblum. 2016. Colonization of a novel depauperate habitat leads to trophic niche shifts in three desert lizard species. *Oikos* 125: 343-353.
- Pennell, M. W., R. G. FitzJohn, W. K. Cornwell, and L. J. Harmon. 2015. Model adequacy and the macroevolution of angiosperm functional traits. *American Naturalist* 186: E33-E50.
- Tank, D. C., J. M. Eastman, M. W. Pennell, P. S. Soltis, D. E. Soltis, C. E. Hinchliff, J. W. Brown, and L. J. Harmon. 2015. Nested radiations and the pulse of angiosperm diversification. *New Phytologist* 207: 454-467.

Deans, A. R. and 55 others including L. J. Harmon. 2015. Finding our way through phenotypes. *PLoS Biology* 13: e1002033.

Rosindell, J., L. J. Harmon, and R. S. Etienne. 2015. Unifying ecology and macroevolution with individual-based theory. *Ecology Letters* 18: 472-482.

Harmon, L. J. and S. Harrison. 2015. Species diversity is dynamic and unbounded at local and continental scales. *The American Naturalist* 185: 584-593.

Hardwick, K. M., L. J. Harmon, S. D. Hardwick, and E. B. Rosenblum. 2015. When field experiments yield unexpected results: lessons learned from measuring selection in White Sands lizards. *PLoS ONE* 10: e0118560.

Des Roches, S., M. Brinkmeyer, L. J. Harmon, and E. B. Rosenblum. 2015. Ecological release and directional change in White Sands lizard trophic ecomorphology. *Evolutionary Ecology* 29: 1-16.

Nuismer, S. L. and L. J. Harmon. 2015. Predicting rates of interspecific interaction from phylogenetic trees. *Ecology Letters* 18: 17-28.

Jochimsen, D. M., C. R. Peterson, and L. J. Harmon. 2014. Influence of ecology and landscape on snake road mortality in a sagebrush-steppe ecosystem. *Animal Conservation* 17: 583-592.

Muschick, M., P. Nosil, M. Roesti, M. T. Dittman, L. Harmon, and W. Salzburger. 2014. Testing the stages model in the adaptive radiation of cichlid fishes in East African Lake Tanganyika. *Proceedings of the Royal Society B* 281: 20140605.

Uyeda, J. C. and L. J. Harmon. 2014. A novel Bayesian method for inferring and interpreting the dynamics of adaptive landscapes from phylogenetic comparative data. *Systematic Biology* 63: 902-918.

Pennell, M. W., J. M. Eastman, G. J. Slater, J. W. Brown, J. C. Uyeda, R. G. Fitzjohn, M. E. Alfaro, and L. J. Harmon. 2014. geiger v2.0: an expanded suite of methods for fitting macroevolutionary models to phylogenetic trees. *Bioinformatics* 30: 2216-2218.

Davis, C. C., H. Schaefer, Z. Xi, D. A. Baum, M. J. Donoghue, and L. J. Harmon. 2014. Long-term morphological stasis maintained by a plant-pollinator mutualism. *PNAS* 111: 5914-5919.

Cranston, K., L. J. Harmon, M. A. O'Leary, and C. Lisle. 2014. Best practices for data sharing in phylogenetic research. *PLoS Currents Tree of Life* 2014 Jun 19.

Hagey, T., J. Puthoff, M. Holbrook, L. J. Harmon, and K. Autumn. 2014. Variation in Setal Micromechanics and Performance of Two Gecko Species. *Zoomorphology* 133: 111-126.

Wagner, C. E., L. J. Harmon, and O. Seehausen. 2014. Cichlid species-area curves are shaped by adaptive radiations that scale with area. *Ecology Letters* 17: 538-592.

Pennell, M. W., L. J. Harmon, and J. C. Uyeda. 2014. Speciation is unlikely to drive divergence rates. *Trends in Ecology and Evolution* 29: 72-73.

Pennell, M. W., L. J. Harmon, and J. C. Uyeda. 2014. Is there room for punctuated equilibrium in macroevolution? *Trends in Ecology and Evolution* 29: 23-32.

DesRoches, S., J. Torresdal, T. Morgan, L. J. Harmon, and E. B. Rosenblum. 2014. Beyond black and white: comparative ecomorphology in three rapidly evolving lizard species at White Sands. *Biological Journal of the Linnean Society* 111: 169-182.

Anderson, C. J. R. and L. J. Harmon. 2014. Ecological and mutation-order speciation in digital organisms. *American Naturalist* 183: 257-268.

Slater, G. J. and L. J. Harmon. 2013. Unifying fossils and phylogenies for comparative analyses of diversification and trait evolution. *Methods in Ecology and Evolution* 4: 699-702.

Pennell, M. W. and L. J. Harmon. 2013. An Integrative View of Phylogenetic Comparative Methods: Connections to Population Genetics, Paleobiology and Community Ecology. *The Year in Evolutionary Biology* 1289: 90-105.

Eastman, J. M., L. J. Harmon, and D. C. Tank. 2013. Congruification: support for time-scaling large phylogenetic trees. *Methods in Ecology and Evolution* 4: 688-691.

Harmon, L. J., J. Baumes, C. Hughes, J. Soberon, C. Specht, B. Thacker, W. Turner, and C. Lisle. 2013. Arbor: Comparative Analysis Workflows for the Tree of Life. *PLoS Currents: Tree of Life*: June 21, 2013.

Stoltzfus, A., H. Lapp, N. Matasci, H. Deus, B. Sidlauskas, C.M. Zmasek, G. Vaidya, E. Pontelli, K. Cranston, R. Vos, C. O. Webb, L. J. Harmon, M. Pirrung, B. O'Meara, M. W. Pennell, S. Mirarab, M. S. Rosenberg, J. P. Balhoff, H. M. Bik, T. Heath, P. Midford, J. W. Brown, E. J. McTavish, J. Sukumaran, M. Westneat, M. E. Alfaro, and A. Steele. 2013. Phylotastic! Making Tree-of-Life Knowledge Accessible, Reusable and Convenient. *BMC Bioinformatics* 14:158.

Des Roches, S., J. B. Shurin, D. Schluter, and L. J. Harmon. 2013. Ecological and evolutionary effects of stickleback on ecosystem function. *PLoS ONE* 8: e59644.

Rosindell, J. and L. J. Harmon. 2013. A unified model of species immigration, extinction and abundance on islands. *Journal of Biogeography* 40: 1107-1118.

Tyerman, J. G., J. M. Ponciano, P. Joyce, L. J. Forney and L. J. Harmon. 2013. The evolution of antibiotic susceptibility and resistance during the formation of *Escherichia coli* biofilms. *BMC Evolutionary Biology* 13: 22.

Slater, G. J., L. J. Harmon, and M. E. Alfaro. 2012. Integrating Fossils with Molecular Phylogenies Improves Inference of Trait Evolution. *Evolution* 12: 3931-3944.

Rosindell, J. and L. J. Harmon. 2012. OneZoom: A Fractal Explorer for the Tree of Life. *PLoS Biology* 10: e1001406.

- Pennell, M. W., B. A. J. Sarver, and L. J. Harmon. 2012. Trees of Unusual Size: Sampling Bias Can Influence Inference of Early Bursts from Molecular Phylogenies. *PLoS ONE* 7: e43348.
- Ingram, T., L. J. Harmon, and J. B. Shurin. 2012. When should we expect early bursts of trait evolution in comparative data? Predictions from an evolutionary food web model. *Journal of Evolutionary Biology* 25: 1902-1910.
- Wagner, C. E., L. J. Harmon, and O. Seehausen. 2012. Ecological opportunity and sexual selection together predict adaptive radiation. *Nature* 487: 366-369.
- Rosenblum, E. B.*, B. A. J. Sarver, J. W. Brown, S. Des Roches, K. M. Hardwick, T. D. Hether, J. M. Eastman, M. W. Pennell, and L. J. Harmon*. 2012. Goldilocks meets Santa Rosalia: An ephemeral speciation model explains patterns of diversification across time scales. *Evolutionary Biology* 39: 255-261
- Godsoe, W. and L. J. Harmon. 2012. How do species interactions affect species distribution models? *Ecography* 35: 811-820.
- Rosindell, J., S. P. Hubbell, F. He, L. J. Harmon, and R. S. Etienne. 2012. The case for ecological neutral theory. *Trends in Ecology and Evolution* 27: 203-208.
- Slater, G. J., L. J. Harmon, 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.
- Stack, J., L. J. Harmon, and B. O'Meara. 2011. RBrownie: An R package for testing hypotheses about rates of evolutionary change. *Methods in Ecology and Evolution* 2: 660-662.
- Eastman, J. M., M. E. Alfaro, P. Joyce, A. L. Hipp, and L. J. Harmon. 2011. A novel comparative method for modeling shifts in the rate of character evolution on trees. *Evolution* 65: 3578-3589.
- Eastman, J. M., L. J. Harmon, H.-J. La, P. Joyce, and L. J. Forney. 2011. The onion model, a simple neutral model for the evolution of diversity in bacterial biofilms. *J. Evol. Biol.* 11: 2496-2504.
- Des Roches, S., J. M. Robertson, L. J. Harmon, and E. B. Rosenblum. 2011. Ecological release in white sands lizards. *Ecology and Evolution* 1: 571-578.
- Davies, T. J., G. Smith, D. U. Bellstedt, J. Boatwright, B. Bytebier, R. Cowling, F. Forest, L. J. Harmon, A. M. Muasya, B. D. Schrire, Y. Steenkamp, M. van de Bank, and V. Savolainen. 2011. Extinction risk and diversification are linked in a plant biodiversity hotspot. *PLoS Biology* 9: e1000620.
- Smith, K. L., L. J. Harmon, L. Shoo, and J. Melville. 2011. Evidence of constrained phenotypic evolution in a cryptic species complex of agamid lizards. *Evolution* 65: 976-992.
- Brock, C. D., L. J. Harmon, and M. E. Alfaro. 2011. Testing for Temporal Variation in Diversification Rates When Sampling is Incomplete and Nonrandom. *Systematic Biology* 60: 410-419.

- Carlson, B. A., S. M. Hasan, M. Hollmann, D. B. Miller, L. J. Harmon, and M. E. Arnegard. 2011. Brain evolution triggers explosive diversification of species and signals. *Science* 332: 583-586.
- Rosenblum, E. B. and L. J. Harmon. 2011. Same same but different: replicated ecological speciation at White Sands. *Evolution* 65: 946-960.
- Arnegard, M. E., P. B. McIntyre, L. J. Harmon, M. L. Zelditch, W. G. R. Crampton, J. K. Davis, J. P. Sullivan, S. Lavoué, and C. D. Hopkins. 2010. Sexual signal evolution outpaces ecological divergence during electric fish species radiation. *American Naturalist* 176:335-356.
- Yoder, J. B., S. Des Roches, J. M. Eastman, L. Gentry, W. K. W. Godsoe, T. Hagey, D. Jochimsen, B. P. Oswald, J. Robertson, B. A. J. Sarver, J. J. Schenk, S. F. Spear, and L. J. Harmon. 2010. Ecological opportunity and the origin of adaptive radiations. *Journal of Evolutionary Biology* 23: 1581-1596, doi:10.1111/j.1420-9101.2010.02029.x.
- Harmon, L. J., J. B. Losos, J. Davies, R. G. Gillespie, J. L. Gittleman, W. B. Jennings, K. Kozak, M. A. McPeck, F. Moreno-Roark, T. J. Near, A. Purvis, R. E. Ricklefs, D. Schluter, J. A. Schulte II, O. Seehausen, B. Sidlauskas, O. Torres-Carvajal, J. T. Weir, & A. Ø. Mooers. 2010. Early bursts of body size and shape evolution are rare in comparative data. *Evolution* 64: 2385-2396. doi:10.1111/j.1558-5646.2010.01025.x.
- Harmon, L. J. and R. E. Glor. 2010. Poor statistical performance of the Mantel test in phylogenetic comparative analyses. *Evolution* 64: 2173-2178, doi:10.1111/j.1558-5646.2010.00973.x.
- Matthews, B., L. J. Harmon, L. M'Gonigle, K. B. Marchinko, and H. Schaschl. 2010. Sympatric and allopatric divergence of MHC genes in threespine stickleback. *PLoS ONE* 5:e10948.
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* Order of authorship is arbitrary