

## Luke J. Harmon

### *Curriculum Vitae*

#### Academic employment

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|----------------|---|
| 2012 – current | Associate Professor   |
| 2007 – 2012    | Assistant Professor<br>Department of Biological Sciences<br>Adjunct, Department of Statistics<br>Affiliated faculty, Bioinformatics and Computational Biology<br>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<br>University of British Columbia, Vancouver, B.C.<br>Supervisor: Dr. Dolph Schluter  |

#### Education

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

#### Awards

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| 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

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| 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   |

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| 2009-2013 | Vertebrates” (co-PI Mike Alfaro; total \$720,204, Harmon lab budget \$462,704)<br>NSF DEB, “RUI: REVSYS: Integrative Systematics of Gekkotan Lizards -<br>Phylogenetic Resolution, Taxonomic Revision, and Comparative Biology” (PIs:<br>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<br>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

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| 2013-present | Co-instructor, Interdisciplinary Studies 400 (Film), University of Idaho   |
| 2007-present | Lecturer, Biology 489 (Herpetology), University of Idaho   |
| 2010-2013    | Lecturer, Biology 213 (Principles of Biological Structure and Function),<br>University of Idaho                                    |
| 2009-2013    | Seminar leader, Macroevolution, University of Idaho and<br>Washington State University   |
| 2011-2012    | Co-instructor, Evolutionary Quantitative Genetics course. At NESCent with<br>Steve Arnold and Joe Felsenstein.                     |
| 2011         | Instructor, Comparative Methods in R; Canadian Society for Ecology and<br>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<br>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<br>Sir Dudley Tuti College, Ysabel Province, Solomon Islands, South Pacific |
| 1995-1996    | Leader and Seminar Coordinator, Freshman Honors Program<br>Iowa State University   |

### Professional service activities

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| 2016         | President-Elect, Society of Systematic Biology   |
| 2013-present | Associate Editor, American Naturalist  |
| 2013-present | Associate Editor, Ecology Letters  |
| 2012-present | Associate Editor, Evolution  |
| 2011-present | Associate Editor, Systematic Biology   |
| 2011-2013    | Associate Editor, Methods in Ecology and Evolution   |
| 2012-present | 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,<br>University of Victoria, and Simon Fraser University |

## Invited talks

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| 2016 | ETH Basel, Switzerland; Institut für Systematische Botanik, UZH, Switzerland  |
| 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 Montreal, Gonzaga University, University of Idaho - Coeur d'Alene, 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

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| Current students | D. Jochimsen (PhD) and D. Caetano (PhD)   |
| Current postdocs | J. Uyeda, C. Hinchliff  |
| 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) (*coadvised with E. B. Rosenblum) |
| Committees:      | <b>Completed</b> Chris Dekker (UI MS), 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)<br><b>In progress</b> Bob Week (UI PhD), Hannah Marx (UI PhD), Katie Shine (UI PhD), Diego Morales-Briones (UI PhD), Gustavo Ferreira (USP Brazil)  |

## Publications

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- Hagey, T. J., J. B. Puthoff, K. E. Crandell, K. Autumn, and L. J. Harmon. *In press*. Modeling Observed Animal Performance Using the Weibull Distribution. *Journal of Experimental Biology*.
- Botero, C. A., L. J. Harmon, and Q. Atkinson. *In press*. The promise and limits of eco-evolutionary studies of human culture: a comment on Sloan Wilson et al. *Religion, Brain, and Behavior*.
- Hagey, T. J., N. Cole, D. Davidson, A. Henricks, L. L. Harmon, and L. J. Harmon. *In press*. Temporal Variation in Structural Microhabitat Use of *Phelsuma* Geckos in Mauritius. *Journal of Herpetology*.
- DesRoches, S., L. J. Harmon, and E. B. Rosenblum. 2015. 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, W. R. Anderson, 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.

Hagey, T. J., J. B. Losos, and L. J. Harmon. 2010. Cruise foraging of invasive chameleons (*Chamaeleo jacksonii*) in Hawaii. *Breviora* 519:1-7.

Alfaro, M. E., F. Santini, C. 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. *PNAS* 106:13410-13414.

- Santini, F., L. J. Harmon, G. Carnevale, and M. E. Alfaro. 2009. Did genome duplication drive the origin of teleosts? A comparative study of diversification in ray-finned fishes. *BMC Evolutionary Biology* 9: 194.
- Ingram, T., L. J. Harmon, and J. B. Shurin. 2009. Niche evolution, trophic structure and species turnover in model food webs. *American Naturalist* 174: 56-67.
- Harmon, L. J.\*, B. Matthews\*, S. Des Roches, J. Chase, J. Shurin, and D. Schluter. 2009. Evolutionary diversification in stickleback affects ecosystem functioning. *Nature* 458: 1167-1170.
- Nosil, P., L. J. Harmon, and O. Seehausen. 2009. Ecological explanations for (incomplete) speciation. *Trends in Ecology and Evolution* 24:145-156.
- Pinto, G., D. L. Mahler, L. J. Harmon, and J. B. Losos. 2008. Testing the island effect in adaptive radiation: rates and patterns of morphological diversification in Caribbean and mainland *Anolis* lizards. *Proceedings of the Royal Society B* 275: 2749-2757.
- Revell, L. J., L. J. Harmon, and D. C. Collar. 2008. Phylogenetic signal, evolutionary process, and rate. *Systematic Biology* 57: 591-601.
- Harmon, L. J., J. Melville, A. Larson, and J. B. Losos. 2008. The Role of Geography and Ecological Opportunity in the Diversification of Day Geckos (*Phelsuma*). *Systematic Biology* 57: 562-573.
- Revell, L. J. and L. J. Harmon. 2008. Testing quantitative genetic hypotheses about the evolutionary rate matrix for continuous characters. *Evolutionary Ecology Research* 10: 311-321.
- Harmon, L. J., J. Weir, C. Brock, R. E. Glor, and W. Challenger. 2008. GEIGER: Investigating evolutionary radiations. *Bioinformatics* 24:129-131.
- Harmon, L. J., L. L. Harmon, and C. G. Jones. 2007. Competition and community structure in diurnal arboreal geckos (genus *Phelsuma*) in the Indian Ocean. *Oikos* 116: 1863-1878, DOI: 10.1111/j.2007.0030-1299.15958.x.
- Vellend, M., L. J. Harmon, J. L. Lockwood, M. M. Mayfield, A. R. Hughes, J. P. Wares, and D. F. Sax. 2007. Effects of exotic species on evolutionary diversification. *Trends in Ecology and Evolution* 22: 481-488.
- Nicholson, K. E., L. J. Harmon, and J. B. Losos. 2007. Evolution of *Anolis* lizard dewlap diversity. *PLoS ONE* 2(3): e274. doi:10.1371/journal.pone.0000274.
- 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.
- Harmon, L. J. and R. Gibson. 2006. Multivariate phenotypic evolution among island and mainland populations of the ornate day gecko, *Phelsuma ornata*. *Evolution* 60: 2622-2632.
- Melville, J., L. J. Harmon, and J. B. Losos. 2006. Intercontinental community convergence of ecology and morphology in desert lizards. *Proceedings of the Royal Society Series B: Biological Sciences* 273: 557-563.

Harmon, L. J. and J. B. Losos. 2005. The effect of intraspecific sample size on type I and type II error rates in comparative studies. *Evolution* 59:2705-2710.

Revell, L. J., L. J. Harmon, and R. E. Glor, 2005. Under-parameterized model of sequence evolution leads to bias in the estimation of diversification rates from molecular phylogenies. *Systematic Biology* 54: 973-983.

Weisrock, D. W., L. J. Harmon, and A. Larson. 2005. Resolving deep phylogenetic relationships in salamanders: analyses of mitochondrial and nuclear genomic data. *Systematic Biology* 54:758-777.

Kozak, K. H., A. Larson, R. M. Bonett, and L. J. Harmon. 2005. Phylogenetic analysis of ecomorphological divergence, species coexistence, and diversification rates in dusky salamanders (Plethodontidae, Desmognathinae). *Evolution* 59: 2000-2016.

Harmon, L. J., K. Bauman, M. McCloud, J. Parks, S. Howell, and J. B. Losos. 2005. What the free-ranging animals do at the zoo: a study of the behavior and habitat use of opossums (*Didelphis virginiana*) on the grounds of the St. Louis Zoo. *Zoo Biology* 24: 197-213.

Harmon, L. J., J. J. Kolbe, J. M. Cheverud, and J. B. Losos. 2005. Convergence and the multidimensional niche. *Evolution* 59: 409-421.

Harmon, L. J., J. A. Schulte, J. B. Losos, and A. Larson. 2003. Tempo and mode of evolutionary radiation in iguanian lizards. *Science* 301: 961-964.

Harmon, L. J. 2002. Some observations of the natural history of the prehensile-tailed skink, *Corucia zebrata*, in the Solomon Islands. *Herpetological Review* 33: 177-179.

Harmon, L. J. 2000. A Translocation Strategy for Confiscated Pancake Tortoises. *Chelonian Conservation and Biology* 3(4):738-743.

Kolbe, J. J., L. J. Harmon, and D. A. Warner. 1999. New state record lengths and associated natural history notes for some Illinois snakes. *Transactions of the Illinois State Academy of Science* 92:133-135.

### **Book chapters and other publications**

Harmon, L. J. 2013. Is character displacement central to ecology and evolutionary biology? *Ecology* 94: 2658-2659.

Harmon, L. J. 2013. "Convergent Evolution." In *Oxford Bibliographies in Evolutionary Biology*. Ed. Jonathan Losos. New York: Oxford University Press, forthcoming.

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