

Luke Harmon
Curriculum Vitae

Academic employment:

- 2007 – present Assistant Professor
 Department of Biological Sciences
 Adjunct, Department of Statistics
 University of Idaho, Moscow, Idaho
- 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

Teaching experience:

- 2008 Co-instructor (with M. Alfaro), Macroevolution, University of Idaho and
 Washington State University
- 2007 Lecturer, Biology 404 (Herpetology), University of Idaho
- 2007 Co-instructor (with M. Alfaro), Macroevolution, University of Idaho and
 Washington State University
- 2006 Lecturer, Biology 300 (Biometry), University of British Columbia
- 2005 Guest Lecturer, Zoology 501 and 525, 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

Honors and awards:

- 2005-2007 Biodiversity Postdoctoral Fellowship, University of British Columbia
- 2006 Just Desserts Award (for services to graduate students), University of
 British Columbia
- 2002-2005 National Science Foundation Dissertation Improvement Grant, \$10,800
- 2001-2004 National Science Foundation Graduate Research Fellowship
- 1997-1998 Supported by National Science Foundation REU grant
- 1996 Iowa State University Zoology and Genetics Intern
- 1996 Howard Hughes Medical Research Program Intern

Activities:

- 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.

2007 Invited speaker, Harvard University, University of Washington, University of Idaho (Department of Agriculture)

2006 Invited speaker, University of Victoria, Simon Fraser University, University of Calgary, University of Idaho, Rice University, University of Glasgow, Iowa State University

2005-2006 Coordinator, Ecology and Evolution Retreat, University of British Columbia, University of Victoria, and Simon Fraser University

2005-2007 Coordinator, Biodiversity Discussion Group, University of British Columbia

2005 Seminar speaker, University of British Columbia

2002-present Member, NCEAS Adaptive Radiation Working Group

Publications:

In review:

Revell, L. J., L. J. Harmon, and D. C. Collar. *In review*. Phylogenetic signal, evolutionary process, and rate. Submitted to *Systematic Biology*.

Nosil, P., L. J. Harmon, and O. Seehausen. *In review*. Dimensionality of niche divergence and ecological speciation. Submitted to *Trends in Ecology and Evolution*.

Pinto, G., D. L. Mahler, L. J. Harmon, and J. B. Losos. *In review*. Testing the island effect in adaptive radiation: rates and patterns of morphological diversification in Caribbean and mainland *Anolis* lizards. Submitted to *Proceedings of the Royal Society B*.

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. *In revision*. Constraints and the scaling of evolutionary rates. Submitted to *Nature*.

Ingram, T., L. J. Harmon, and J. B. Shurin. *In revision*. Evolution of omnivory and trophic specialization through food web assembly. Submitted to *American Naturalist*.

Melville, J. and L. J. Harmon. *In review*. Ecological opportunity and phenotypic diversification in a continental adaptive radiation of lizards. Submitted to *Ecology*.

Peer reviewed papers, published or in press:

Harmon, L. J., J. Melville, A. Larson, and J. B. Losos. *Accepted pending revision*. The Role of Geography and Ecological Opportunity in the Diversification of Day Geckos (*Phelsuma*). Submitted to *Systematic Biology*.

Revell, L. J. and L. J. Harmon. *In press*. Testing quantitative genetic hypotheses about the evolutionary rate matrix for continuous characters. Submitted to *Evolutionary Ecology Research*.

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

Nosil, P. and L. J. Harmon. *In press*. Niche dimensionality and ecological speciation. *Ecological Reviews* (book chapter).

Harmon, L. J., N. C. Cole, T. Ross, and J. M. Probst. *In press*. Le Dimorphisme Sexuel de la Taille et Forme dans *Phelsuma borbonica borbonica*, avec les Notes sur l'Histoire Naturelle de l'Espèce. *Bulletin Phaethon*.

Harmon, L. J. *In press*. Conservation of Small Populations: Effective Population Size, Inbreeding, and the 50/500 Rule. *in* Braude and Low, Eds., *A Working Understanding of Ecology*. Princeton University Press.

Mooers, A.O., Harmon, L.J., Wong, D.H.J., and S.B. Heard. 2007. Some models of phylogenetic tree shape. Pages 147-168 *in* New Mathematical Models for Evolution (O. Gascuel and M. Steel, eds.), Oxford University Press, Oxford.

References:

Dr. Jon Chase
Department of Biology
Washington University
St. Louis, MO 63130
(314) 935-4105
jchase@wustl.edu

Dr. Dolph Schluter
University of British Columbia
6270 University Boulevard
Vancouver, BC V6T 1Z4 Canada
(604) 822-2387
schluter@zoology.ubc.ca

Dr. Jonathan B. Losos
Museum of Comparative Zoology and
Department of Organismic and Evolutionary Biology
26 Oxford St.
Harvard University
Cambridge, MA 02138
617-495-9835
jlosos@oeb.harvard.edu