

Department of Biological Sciences
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EDUCATION:

Ph.D. Student, Department of Biological Sciences and Museum of Natural Science Jan. 2010 – present
Louisiana State University
Advisor: Robb T. Brumfield

B. A., Biology, College of Arts and Sciences Sep. 2004 – May 2008
Cornell University
Concentration: Ecology and Evolutionary Biology

SCIENTIFIC PUBLICATIONS:

Harvey, M. G. and R. T. Brumfield. In press. Genomic variation in a widespread Neotropical bird (*Xenops minutus*) reveals divergence, population expansion, and gene flow. *Molecular Phylogenetics and Evolution*.

Smith, B. T., J. E. McCormack, A. M. Cuervo, M. J. Hickerson, A. Aleixo, C. D. Cadena, J. E. Pérez Eman, C. W. Burney, X. Xie, **M. G. Harvey**, B. C. Faircloth, T. C. Glenn, E. P. Derryberry, J. Prejean, S. Fields, and R. T. Brumfield. 2014. The drivers of tropical speciation. *Nature* doi:10.1038/nature13687.

Harvey, M. G., G. F. Seeholzer, D. Cáceres Apaza, B. M. Winger, J. G. Tello, F. Hernández Camacho, M. A. Aponte Justiniano, C. V. Duffie, S. Figueroa Ramírez, R. S. Terrill, C. E. Brown, L. Alza, G. A. Bravo, M. Combe, O. Custodio, A. Quiñones Zumaeta, A. Urbay Tello, W. A. Garcia Bravo, A. S. Savit, F. W. Pezo Ruiz, W. M. Mauck III, and O. Barden. 2014. Avian Biogeography of an Amazonian headwater: The upper Ucayali River, Peru. *Wilson Journal of Ornithology* 126: 179-191.

Terrill, R. S., M. A. Aponte Justiniano, **M. G. Harvey**, G. F. Seeholzer, and R. I. Strem. 2014. Notes on the avifauna of the Río Mamoré, Beni, Bolivia, with a description of the juvenile plumage of Unicolored Thrush (*Turdus haplochrous*) (Aves: Turdidae). *Occasional Papers of the LSU Museum of Natural Science* 82: 1-21.

Harvey, M. G., D. F. Lane, J. Hite, R. S. Terrill, S. Figueroa Ramírez, B. T. Smith, J. Klicka, and W. Vargas Campos. 2014. Notes on bird species in bamboo in northern Madre de Dios, Peru including the first Peruvian record of Acre Tody-Tyrant (*Hemitriccus cohnhafti*). *Occasional Papers of the LSU Museum of Natural Science* 81: 1-38.

Smith, B. T., **M. G. Harvey**, B. C. Faircloth, T. C. Glenn, and R. T. Brumfield. 2014. Target capture and massively parallel sequencing of ultraconserved elements (UCEs) for comparative studies at shallow evolutionary timescales. *Systematic Biology* 63: 83-95.

Carstens, B. C., R. S. Brennan, V. Chua, C. V. Duffie, **M. G. Harvey**, R. A. Koch, C. D. McMahan, B. J. Nelson, C. E. Newman, J. D. Satler, G. F. Seeholzer, K. Posbic, D. C. Tank, and J. Sullivan. In press. Model selection as a tool for phylogeographic inference: An example from the willow *Salix melanopsis*. *Molecular Ecology* 22: 4014-4028.

McCormack, J. E., **M. G. Harvey**, B. C. Faircloth, N. G. Crawford, T. C. Glenn, and R. T. Brumfield. 2013. A phylogeny of birds based on over 1,500 loci collected by target enrichment and high-throughput sequencing. *PLoS One* 8: e54848.

Seeholzer, G. F., **M. G. Harvey**, B. M. Winger, D. Cáceres A., and J. D. Weckstein. 2012. A new species of barbet (Aves: Capitonidae) from the Cerros del Sira of central Peru. *Auk* 129: 551-559.

Faircloth, B. C., J. E. McCormack, N. G. Crawford, **M. G. Harvey**, R. T. Brumfield, and T. C. Glenn. 2012. Ultraconserved elements anchor thousands of genetic markers for target enrichment spanning multiple evolutionary timescales. *Systematic Biology* 61: 717-726.

Harvey, M. G., B. M. Winger, G. F. Seeholzer, and D. Cáceres A.. 2011. Avifauna of the Gran Pajonal and southern Cerros del Sira, Peru. *Wilson Journal of Ornithology* 123: 289-315.

Harvey, M. G. 2009. Sira Tanager (*Tangara phillipsi*), Neotropical Birds Online (T. S. Schulenberg, Editor). Ithaca: Cornell Lab of Ornithology.

D. N. Bonter and **M. G. Harvey**. 2008. Winter survey data reveal range-wide decline in Evening Grosbeak populations. *Condor* 110: 376-381.

Lebbin, D. J., **M. G. Harvey**, T. C. Lenz, M. J. Andersen, and J. M. Ellis. 2007. Nocturnal migrants foraging at night by artificial light. *Wilson Journal of Ornithology* 119: 506-508.

Harvey, M. G., D. N. Bonter, L. M. Stenzler, and I. J. Lovette. 2006. A comparison of plucked feathers versus blood samples as DNA sources for molecular sexing. *Journal of Field Ornithology* 77: 136-140.

Harvey, M. 2004. New Hampshire's first record of Little Stint (*Calidris minuta*). *New Hampshire Bird Records*. 22: 46-47.

AWARDS AND GRANTS:

Applewhite/Neal Fellowship, Louisiana State University (\$11,250)	2014
American Ornithologist's Union Student Travel Award (\$375)	2014
American Ornithologist's Union Student Travel Award (\$500)	2013
Louisiana State University BioGrads Symposium Award (\$50)	2012
Nuttall Ornithological Club Blake-Nuttall Award (\$2,500)	2012
Lewis and Clark Research Award (\$4,000)	2012
National Geographic Society Grant (\$20,000)	2012
American Ornithologist's Union Research Award (\$2,500)	2012
T. Vinton Holmes Award, Louisiana State University (\$500)	2012
National Science Foundation Doctoral Dissertation Improvement Grant (\$15,000)	2012
North American Ornithological Conference Travel Award (\$500)	2012
Neotropical Ornithological Conference Travel Award (\$550)	2011
Virginia L. Mouw Award in Ornithology, Louisiana State University (\$400)	2011
National Geographic Society Grant (\$24,000)	2010
Cornell Lab of Ornithology Student Research Grant (\$20,000)	2008
National Geographic Society Young Explorer's Grant (\$5,000)	2008
Explorer's Club Youth Activity Award (\$1,500)	2008
Cornell Lab of Ornithology Student Research Grant (\$4,000)	2007
American Ornithologist's Union Student Travel Award (\$550)	2006
Hunter R. Rawlings Cornell Presidential Research Scholarship (\$5,000)	2005 – 2008

CURATORIAL EXPERIENCE:

Ornithology Collection, LSU Museum of Natural Science <i>Curatorial assistant.</i>	Aug. 2012 – Aug. 2013
Genetic Resources Collection, LSU Museum of Natural Science <i>Curatorial assistant.</i>	Aug. 2011 – Aug. 2012

Macaulay Library of Natural Sounds, CLO, Ithaca, NY
Collections assistant.

Sep. 2007 – Feb. 2008

TEACHING EXPERIENCE:

Workshop on Ultraconserved Elements (week-long workshop on lab methods and bioinformatics) <i>Instructor</i>	Mar. 2013
Principles of Genetics (LSU sophomore-level course) <i>Teaching assistant.</i>	Aug. – Dec. 2010
Biological Laboratories for Science Majors (LSU introductory course) <i>Teaching assistant.</i>	Jan. – May 2010
Ornithology (Cornell University senior-level course) <i>Undergraduate teaching assistant.</i>	Jan. – May 2008

SCIENTIFIC PRESENTATIONS:

Harvey, M. G. 2014. Comparative phylogeography using genomic datasets. Talk. Annual meeting of the American Ornithologist's Union, Estes Park, Colorado.

Harvey, M. G. 2014. Harnessing genomics for evolutionary study of Neotropical birds. Talk. Third Meeting of the Network for Neotropical Biogeography, Bogotá, Colombia.

Harvey, M. G. 2013. Phylogeography of the Neotropical bird *Xenops minutus* using genome-wide single nucleotide polymorphisms. Talk. Annual meeting of the American Ornithologist's Union, Chicago, Illinois.

Harvey, M. G., B. T. Smith, B. C. Faircloth, T. C. Glenn, and R. T. Brumfield. 2013. SNPs versus sequences for phylogeography - an exploration using simulations and massively parallel sequencing in a non-model bird. Society of Systematic Biologists invited symposium talk. Evolution, Snowbird, Utah.

Harvey, M. G., B. T. Smith, B. C. Faircloth, T. C. Glenn, and R. T. Brumfield. 2013. Ultraconserved elements (UCEs) and comparative phylogeography of Neotropical birds. Poster. Sixth Conference of the International Biogeography Society, Miami, Florida.

Harvey, M. G., B. T. Smith, B. C. Faircloth, T. C. Glenn, J. E. McCormack, and R. T. Brumfield. 2012. Genomic phylogeography of lowland Neotropical birds using ultraconserved elements (UCEs). Talk. Fifth North American Ornithological Conference, Vancouver, Canada.

Harvey, M. G., B. T. Smith, B. C. Faircloth, T. C. Glenn, J. E. McCormack, and R. T. Brumfield. 2012. Genomic ultraconserved elements (UCEs) - information content for phylogenetics and phylogeography in birds. Poster. First Joint Congress on Evolutionary Biology, Ottawa, Canada.

Harvey, M. G., C. Carrizales, and R. T. Brumfield. 2011. Phylogeographic discord in the comparative genomic history of Amazonian birds. Poster. Ninth Neotropical Ornithological Congress, Cusco, Peru.

Harvey, M. G., B. M. Winger, G. F. Seeholzer, and D. Caceres A. 2009. Avifauna of the Gran Pajonal and southern Cerros del Sira, Peru. Poster. Annual meeting of the American Ornithologist's Union, Philadelphia, Pennsylvania.

Harvey, M. G. and D. N. Bonter. 2006. Red-bellied Woodpecker range expansion – response to climate change? Poster. Fourth North American Ornithological Congress, Veracruz, Mexico.

SERVICE AND OUTREACH:

LSU Peru Big Day Fundraiser and Outreach Effort (lsubigday.org) <i>Organizer and participant, world big day record holder.</i>	Oct. 2014
Peru Birding Rally Challenge <i>LSU Tigrisomas team member, first place.</i>	Nov. 2012
LSU Museum of Natural Science Big Day Fundraiser <i>Team member, Louisiana big day record holder.</i>	Apr. 2010, 2012, 2014
<i>Coordinator:</i> LSU Museum of Natural Science Seminar Series LSU BioGrads (Social Coordinator)	Aug. 2010 – May 2011 Mar. 2012 – Mar. 2013
<i>Reviewer:</i> Systematic Biology Molecular Ecology Auk Journal of Field Ornithology Cotinga	

MUSEUM EXPEDITIONS:

Expedition leader:

Brazil – Jul. 2012 (co-led with Bret Whitney)
MZUSP/LSUMNS Expedition to Rio Sucunduri

Peru – Nov. 2011
CORBIDI/LSUMNS Expedition to Bamboo in Dpto. Madre de Dios

Brazil – Jul. 2011 (co-led with Bret Whitney and Vitor Piacentini)
MZUSP/LSUMNS Expedition to Rio Tapajós

Peru – Apr.-Aug. 2011 (co-led with Glenn Seeholzer)
CORBIDI/LSUMNS Expedition to upper Río Ucayali

Peru – Jul. 2010 (co-led with Gustavo Bravo)
CORBIDI/LSUMNS Expedition to upper Río Ucayali and Río Pachitea

Peru – Aug.-Nov. 2008 (co-led with Benjamin Winger and Glenn Seeholzer)
CUMV Expedition to the Cerros del Sira and Gran Pajonal

Expedition member:

Bolivia – Oct.-Dec. 2013
MHNNKM/LSUMNS Expedition to the Cotacajes Valley

Bolivia – Dec. 2010-Jan. 2011
MHNNKM/LSUMNS Expedition to Cochabamba and the Beni

Costa Rica – May-Jun. 2010
UCRMZ/LSUMNS Expedition to lowlands for César Sanchez's dissertation
