

ZACHARY A. CHEVIRON
CURRICULUM VITAE

Center for Tropical Research & Department of Ecology and Evolutionary Biology
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ACADEMIC POSITIONS

2009-Present Postdoctoral Scholar, Center for Tropical Research, University of California, Los Angeles. Advisor: T. Smith, PhD

EDUCATION

2008 Ph.D. Biological Sciences, Louisiana State University. Advisor: R. Brumfield, PhD
2003 M.S. Biological Sciences, Illinois State University. Advisor: A. Capparella, PhD
2000 B.S. Biology and Environmental Science, University of Evansville.
Minor: Chemistry.

PROFESSIONAL EXPERIENCE

2007-2008 Teaching Assistant, Dept. Biological Sciences, LSU
2005-2007 Curatorial Assistant, LSUMNS Collection of Genetic Resources
2003-2005 Teaching Assistant, Dept. Biological Sciences, LSU
2001-2003 Curatorial Fellow, Dale Birkenholtz Natural History Collection, ISU
2000-2003 Teaching Assistant, Dept. Biological Sciences, ISU

PUBLICATIONS

- 2009 **Cheviro, Z.A.**, & R.T. Brumfield. Migration-selection balance and local adaptation of mitochondrial haplotypes in Rufous-collared Sparrows (*Zonotrichia capensis*) along an altitudinal gradient. *Evolution* - in press.
- Uy, J.A.C., R.G. Moyle, C.E. Filardi, & **Z.A. Cheviro**. Difference in plumage color used in species recognition between incipient species is linked to a single amino acid substitution in the melanocortin-1 receptor – *in review American Naturalist*
- Cheviro, Z.A.**, M.D. Carling, & R.T. Brumfield. Field preservation of avian tissues for gene expression analyses - *in revision Journal of Field Ornithology*.
- 2008 **Cheviro, Z.A.**, A. Whitehead, & R.T. Brumfield. Transcriptomic variation and plasticity in Rufous-collared Sparrows (*Zonotrichia capensis*) along an altitudinal gradient. *Molecular Ecology* 17:4556-4569. *selected by the Faculty of 1000
- 2007 Brumfield, R.T., J.G. Tello, **Z.A. Cheviro**, M.D. Carling, N. Crochet, & K.V. Rosenberg. Phylogenetic conservatism and antiquity of a tropical specialization: army-ant-following in the typical antbirds (Thamnophilidae). *Molecular Phylogenetics and Evolution* 45:1-13.
- 2006 **Cheviro, Z.A.**, S.J. Hackett & R.T. Brumfield. Sequence variation in the coding region of the melanocortin-1 receptor gene (MC1R) is not associated with plumage polymorphism in the Blue-crowned Manakin (*Lepidothrix coronata*). *Proceedings of the Royal Society of London, Series B* 273:1613-1618.

- 2005 **Cheviron, Z.A.**, S.J. Hackett, and A.P. Capparella. Complex evolutionary history of a Neotropical lowland forest bird (*Lepidothrix coronata*) and its implications for historical hypotheses of the origin of Neotropical avian diversity. *Molecular Phylogenetics and Evolution* 36:338-357.
- Cheviron, Z.A.**, A.P. Capparella, and F. Vuilleumier. Molecular phylogenetic relationships among the *Geositta* miners (Aves: Furnariidae) and biogeographic implications for avian speciation in Fuego-Patagonia. *Auk* 122:158-174

FELLOWSHIPS AND HONORS

- 2007 Nellie Johnson Baroody Award for Outstanding Student Paper. 125th Meeting of the American Ornithologists' Union, Laramie Wyoming.
- 2006 Outstanding Graduate Student. Louisiana State University. Museum of Natural Science, Outstanding Student Paper. IV North American Ornithological Conference, Veracruz, Mexico
- 2003 Finalist for M.A. Fisher Award for Outstanding Master's Thesis, Department of Biological Sciences, Illinois State University.
- 2002 E. L. Mockford Fellowship in Support of Summer Graduate Research, Illinois State University.
- 2002 Dale Birkenholtz Higher Vertebrates Curatorial Fellowship, Illinois State University
- Outstanding Concepts of Biology Teaching Assistant, Illinois State University

RESEARCH GRANTS

- 2008 Travel Award, American Ornithologists' Union
Frank M. Chapman Memorial Fund, American Museum of Natural History.
Society for Integrative and Comparative Biology Grants in Aid of Research.
- 2006 AOU Research Award, American Ornithologists' Union.
Exploration Fund, The Explorers Club.
- 2005 T. Vinton Holmes Award, Louisiana State University.
- 2004 Grants-in-Aid of Research, Sigma Xi.
Frank M. Chapman Memorial Fund, American Museum of Natural History.
- 2002 Frank M. Chapman Memorial Fund, American Museum of Natural History.
Josselyn Van Tyne Memorial Fund, American Ornithologists' Union.
Collection Study Grant, American Museum of Natural History.
R.D. Weigel Research Grant, Illinois State University.
- 2001 R.D. Weigel Research Grant, Illinois State University.

INVITED PRESENTATIONS

- 2008 **Cheviron, Z.A.** Ecological genomics of high altitude adaptation in Rufous-collared Sparrows (*Zonotrichia capensis*), Center for Tropical Research, University of California, Los Angeles.
- Cheviron, Z.A.** Ecological genomics of high altitude adaptation in Rufous-collared Sparrows (*Zonotrichia capensis*), University of California, Davis.

CONTRIBUTED PRESENTATIONS

- 2008 **Cheviron, Z.A.**, A. Whitehead, & R.T. Brumfield. Altitudinal variation in gene expression in Rufous-collared Sparrows (*Zonotrichia capensis*). American Ornithologists' Union, Portland OR.
- Cheviron, Z.A.**, A. Whitehead, & R.T. Brumfield. Effects of an extreme altitudinal gradient on gene expression in Rufous-collared Sparrows (*Zonotrichia capensis*). Annual Meeting for the Society for the Study of Evolution, Minneapolis MN.

- 2007 **Cheviron, Z.A.** & R.T. Brumfield. Ecological correlates of population genetic structure in Rufous-collared Sparrows (*Zonotrichia capensis*): discordance between mitochondrial and nuclear markers. American Ornithologists' Union, Laramie WY.
- 2006 **Cheviron, Z.A.** & R.T. Brumfield. The role of elevational gradients in the population genetic structure of Rufous-collared Sparrows (*Zonotrichia capensis*). IV North American Ornithological Conference, Veracruz, Mexico.
- Cadena, C.D., A.M. Cuervo, & **Z.A. Cheviron**. How do leapfrog patterns of geographic variation arise? IV North American Ornithological Conference, Veracruz, Mexico.
- 2004 **Cheviron, Z.A.**, S.J. Hackett, & R.T. Brumfield. Phylogeographic analysis of MC1R variation and its association with plumage polymorphism in Manakins (Aves: *Lepidothrix*). Annual Meeting of the Society for the Study of Evolution, Fort Collins CO.
- 2003 **Cheviron, Z.A.**, S. J. Hackett, & A.P. Capparella. Evolutionary history of the Blue-crowned Manakin (*Lepidothrix coronata*): using intraspecific phylogeography to test historical hypotheses. American Ornithologists' Union, Champaign IL.
- 2002 **Cheviron, Z.A.**, F. Vuilleumier, & A.P. Capparella. Phylogenetic relationships among the *Geositta* miners. III North American Ornithological Conference, New Orleans, LA.

TEACHING EXPERIENCE

- 2008 Teaching Assistant, Concepts of Genetics (BIOL 2153), Louisiana State University
 Guest Lecturer, Concepts of Genetics (BIOL 2153), Louisiana State University
 Guest Lecturer, Conservation Genetics (RNR 4103), Louisiana State University
- 2007 Teaching Assistant, Concepts of Genetics (BIOL 2153), Louisiana State University
 Guest Lecturer, Evolution (BIOL 3040), Louisiana State University.
- 2006 Guest Lecturer, Ornithology (BIOL 4142), Louisiana State University.
- 2005 Teaching Assistant, Genetics of the Evolutionary Process (BIOL 4299), Louisiana State University
- 2004 Teaching Assistant, Concepts of Genetics (BIOL 2153), Louisiana State University
- 2003 Teaching Assistant, Concepts of Genetics (BIOL 2153), Louisiana State University
- 2002 Teaching Assistant, Animal Behavior (BIOL 199), Illinois State University
 Teaching Assistant, Invertebrate Zoology (BIOL 219), Illinois State University
- 2001 Teaching Assistant, Concepts of Biology (BIOL 101), Illinois State University
- 2000 Teaching Assistant, Concepts of Biology (BIOL 101), Illinois State University

FIELD EXPERIENCE

- 2007 *Peru*: Andes and Pacific slope. Collection of specimens along altitudinal transects.
- 2006 *Suriname*: Sipaliwini District. General collecting expedition sponsored by LSUMNS.
- 2005 *Peru*: Andes and Pacific slope. Collection of specimens along altitudinal transects.
- 2004 *Peru*: Andes and Pacific slope. Collection of specimens along altitudinal transects.
- 2002 *Peru*: San Martín Department. General collecting expedition sponsored by LSUMNS.

ACADEMIC SERVICE

- Reviewer*: Auk, Emu, Evolution, Molecular Phylogenetics and Evolution, and Molecular Ecology.
- Committees*: AOU Publications Task Force, Assembly of Partners, Centro de Ornitología y Biodiversidad – Lima Peru, Biology Laboratory Manual Revisions Committee, Illinois State University
- Coordinator*: Louisiana State University Museum Natural Science Seminar Series.

Outreach: Judge for Dufroq Elementary School (Baton Rouge, LA) and Westdale Middle School (Baton Rouge, LA) science fairs. Tutored high school students in bird identification for Illinois Science Olympiad.

REFERENCES

Dr. Thomas B. Smith (Post-doctoral Advisor)
Director, Center for Tropical Research
UCLA Institute for the Environment
Professor, Department of Ecology and Evolutionary Biology
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Dr. Andrew Whitehead (PhD Committee Member)
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