

JESSICA R. EBERHARD

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EDUCATION

1997 Princeton University Ph.D. (Ecology and Evolutionary Biology)
Dissertation: The evolution of nest-building behavior in parrots

1990 Amherst College B.A. (Biology), *summa cum laude*
Honors thesis: Effects of food availability and intrusion pressure on
territory size: an experimental study of Anna's hummingbirds (*Calypte
anna*)

PROFESSIONAL EXPERIENCE

Research

2004-pres. Research Assistant Professor, Biological Sciences Department, Louisiana
State University

2002-pres. Research Associate, Museum of Natural Science, Louisiana State
University

2002-2009 Research Associate, Biological Sciences Department, Louisiana State
University

2000-2002. Post-doctoral Associate, Cornell Laboratory of Ornithology
Project title: Evolution of vocal communication in *Aratinga pertinax*
parakeets.

1999-2000 Visiting Researcher, University of California, Santa Barbara

1998-1999 Post-doctoral Fellow, Smithsonian Tropical Research Institute.
Project title: Phylogeography of *Pionopsitta* parrots and *Pteroglossus*
toucans: a test of the Pleistocene refuge hypothesis.

1997-1998 Post-doctoral Fellow, Smithsonian Tropical Research Institute.
Project title: Phylogeny and biogeography of the *Amazona ochrocephala*
(Psittacidae) species complex.

Teaching

2016 Instructor, Louisiana State University
Course: seminar entitled "Sexual Selection"

2014, 2015 Instructor, Louisiana State University

- Course: Evolutionary Biology
 Fall 2010 Instructor, Louisiana State University
 Course: seminar entitled "Developmental Plasticity and Evolution"
- Fall 2009 Instructor, Louisiana State University
 Course: Animal Behavior
- Spring 2009 Instructor, Louisiana State University
 Course: seminar entitled "Foundations of Behavioral Ecology"
- 2009-pres. Committee member, PhD program, Louisiana State Univ. (Biol. Sciences)
- 2006-2013 Committee member, PhD program, New Mexico State Univ. (Biology)
- 2005-2007 Committee member, PhD program, Louisiana State Univ. (Biol. Sciences)
- 2003-2007 Committee member, Master's degree program, Instituto Venezolano de Investigaciones Científicas, Venezuela
- August 2002 Instructor for a field course on sound recording techniques, conducted in Cuba
- 2001-2004 Committee member, Master's degree program, Escuela de Biología, Universidad de Costa Rica
- Spring 2000 Lecturer, Princeton University
 Course: Neotropical Ornithology (the course was taught in Panamá)
- 1998-2000 Honorary Professor, Universidad Autónoma de Chiriquí, Panamá. Thesis advisor for Angélica Rodríguez, whose thesis comprised a field study of the breeding biology of *Amazona ochrocephala* parrots in Western Panama.
- 1997,1998 Invited instructor for biology field course, Universidad de Panamá.
 Invited instructor for biology field course, Universidad Autónoma de Chiriquí
- 1991-1996 Teaching Assistant, Princeton University
 Courses: Introductory Biology, Vertebrate Biology, Biogeography and Conservation, and Behavioral Ecology.
- 1990 Teaching Assistant, Amherst College.
 Course: Ecology.

PUBLICATIONS

- Eberhard, J. R.** 2016. Book Review: *Parrots of the wild: a natural history of the world's most captivating birds*. *Journal of Field Ornithology* 87(2):222-223.
- Eberhard, J. R.** and T. F. Wright. 2016. Rearrangement and evolution of mitochondrial genomes in parrots. *Molecular Phylogenetics and Evolution* 94:34-46.
- Eberhard, J. R.**, E. E. Iñigo-Elias, E. Enkerlin-Hoeflich, and P. Cun. 2015. Phylogeography of the Military Macaw (*Ara militaris*) and the Great Green Macaw (*A. ambiguus*) based on mtDNA sequence data. *Wilson Journal of Ornithology* 127(4):661-669.
- Schirtzinger, E. E., E. S. Tavares, L. A. Gonzales, **J. R. Eberhard**, C. Y Miyaki, J. J. Sanchez, A. Hernandez, H. Müller, G. R. Graves, R. C. Fleischer, and T. F. Wright. 2012. Multiple independent origins of mitochondrial control region

- duplications in the order Psittaciformes. Molecular Phylogenetics and Evolution 64:342-356.
- Wright, T. F., **J. R. Eberhard**, E. A. Hobson, M. L. Avery, and M. A. Russello. 2010. Behavioral flexibility and species invasions: the adaptive flexibility hypothesis. Ethology, Ecology and Evolution. (TFW and JRE co-first authors)
- Gonçalves da Silva, A., **J. R. Eberhard**, T. F. Wright, M. L. Avery and M. A. Russello. 2010. Genetic evidence for high propagule pressure and long-distance dispersal in monk parakeet (*Myiopsitta monachus*) invasive populations. Molecular Ecology 19:3336-3350.
- Zager, I., K. M. Rodríguez-Clark, **J. R. Eberhard**, J.P. Rodríguez and P. A. Millán. 2009. Nest poaching in the Venezuelan insular subspecies of the Brown-throated Parakeet (*Aratinga pertinax*). Ornitología Neotropical 20(1):99-112.
- Wright, T.F., E.E. Schirtzinger, T. Matsumoto, **J.R. Eberhard**, G.R. Graves, J.J. Sanchez, S. Capelli, H. Müller, J. Scharpegge, G.K. Chambers and R.C. Fleischer. 2008. A multi-locus molecular phylogeny of the parrots (Psittaciformes): Support for a Gondwanan origin during the Cretaceous. Molecular Biology and Evolution 25:2141-2156.
- Rusello, M. A., V. Saranathan, S. Buhrman-Deever, **J. Eberhard** and A. Caccone. 2007. Characterization of polymorphic microsatellite loci for the invasive monk parakeet (*Myiopsitta monachus*). Molecular Ecology Notes 7:990-992.
- Rodríguez, A. M. and **J. R. Eberhard**. 2006. Reproductive behavior of the Yellow-crowned parrot (*Amazona ochrocephala*) in Western Panama. Wilson J. Ornithology 118:225-236.
- Eberhard, J. R.** and E. Bermingham. 2005. Phylogeny and comparative biogeography of *Pionopsitta* parrots and *Pteroglossus* toucans. Molecular Phylogenetics and Evolution 36:288-304.
- Eberhard, J. R.** and E. Bermingham. 2004. Phylogeny and biogeography of the *Amazona ochrocephala* complex. The Auk 121:318-332.
- Ottens-Wainright, P., K. M. Halanych, **J. R. Eberhard**, R. I. Burke, J. W. Wiley, R. S. Gnam, and X. Gálvez Aguilera. 2004. Independent geographic origins of the genus *Amazona* in the West Indies. J. Caribbean Ornithology—Special issue honoring Nedra Klein:23-49.
- González, M. A., **J. R. Eberhard**, I. J. Lovette, S. L. Olson and E. Bermingham. 2003. Mitochondrial DNA phylogeography of the Bay Wren complex. The Condor 105:228-238..
- Harms, K. E. and **J. R. Eberhard**. 2003. Roosting behavior of the Brown-throated Parakeet (*Aratinga pertinax*) and roost locations on four southern Caribbean Islands. Ornitología Neotropical 14:79-89.
- Eberhard, J. R.** 2002. Cavity-adoption and the evolution of coloniality. The Condor 104:240-247.
- Miyaki, C. Y. e **J. R. Eberhard**. 2002. Genética de conservação de Psitacídeos. *In Ecologia e Conservação de Papagaios em Brasil* (M. Galetti and M. A. Pizo, eds.) Melopsittacus Publicações Científicas.

- Eberhard, J. R.** 2002. Biología y conservación de los loros, pericos y guacamayos de Panamá. Pp. 164-168 in Panamá: Puente Biológico (S. Heckadon-Moreno, ed.) Instituto Smithsonian de Investigaciones, Panamá.
- Eberhard, J. R.**, T. F. Wright and E. Bermingham. 2001. Duplication and concerted evolution of the mitochondrial control region in the parrot genus *Amazona*. Molecular Biology and Evolution 18(7):1330-1342. (JRE and TFW co-first authors)
- Wright, T.F., C.A. Toft, E. Enkerlin-Hoeflich, J. Gonzalez-Elizondo, M. Albornoz, A. Rodríguez-Ferraro, F. Rojas-Suárez, V. Sanz, A. Trujillo, S. R. Beissinger, V. Berovides A., X. Gálvez A., A. T. Brice, K. Joyner, **J. Eberhard**, J. Gilardi, S. E. Koenig, S. Stoleson, P. Martuscelli, J. M. Meyers, K. Renton, A. M. Rodríguez, A. C. Sosa-Asanza, F. J. Vilella, and J. W. Wiley. 2001. Nest poaching in Neotropical parrots. Conservation Biology 15:710-720.
- Eberhard, J. R.** 1998. Breeding biology of the Monk Parakeet. The Wilson Bulletin 110: 463-473.
- Eberhard, J. R.** 1998. Evolution of nest-building behavior in *Agapornis* parrots. The Auk 115:455-464.
- Eberhard, J. R.** 1996. Nest adoption by Monk Parakeets. The Wilson Bulletin 108: 374-377.
- J. W. Dalling, K. E. Harms, **J. R. Eberhard** and I. Candanedo. 1996. Natural history and uses of Tagua (*Phytelephas seemannii*) in Panamá. Principes 40: 16-23.
- Reed, J. M., R. C. Fleischer, **J. R. Eberhard**, L. W. Oring. 1996. Minisatellite DNA variability in two populations of spotted sandpipers *Actitis macularia* in Minnesota, U.S.A. Wader Study Group Bulletin, vol 79:115-117.
- Eberhard, J. R.** and P. W. Ewald. 1994. Food availability and intrusion pressure on territory size: an experimental study of Anna's hummingbirds (*Calypte anna*). Behavioral Ecology and Sociobiology 34(1): 11-18.

PRESENTATIONS AT PROFESSIONAL MEETINGS

- Eberhard, J. R. and T. F. Wright. 2014. Complete mitochondrial genome sequences reveal that independent control region duplications (usually) result in identical gene orders in parrots. Society for the Study of Evolution, Raleigh, N.C.
- Wright, T. F., E. E. Schirtzinger, A. M. Young, E. A. Hobson, J. R. Eberhard. 2011. Mitochondria and aging: do duplicated mtDNA control regions confer longer lifespans in parrots? Society for Integrative and Comparative Biology, Salt Lake City, UT. Integrative and Comparative Biology 51(S1):E154.
- Shirtzinger, E. E., L. A. Gonzales, J. R. Eberhard, G. R. Graves and T. F. Wright. 2007. Repeated mitochondrial control region duplication in parrots. Society for the Study of Evolution, annual meeting. Christchurch, New Zealand.
- Zager, I., J. R. Eberhard and K. M. Rodríguez-Clark. 2007. Geographic variation in the vocalizations of Brown-throated Parakeets (*Aratinga pertinax*): and effect of phylogeny? VIII Neotropical Ornithology Congress, Maturín, Venezuela.

- Zager, I., J. R. Eberhard, and K. M. Rodríguez-Clark. 2007. Do the insular subspecies of the Brown-throated Parakeet (*Aratinga pertinax*) form a monophyletic group? Evidence from mitochondrial DNA. VIII Neotropical Ornithology Congress, Maturín, Venezuela.
- Wright, T. F., E. E. Schirtzinger, T. Matsumoto, J. R. Eberhard, G. R. Graves, and R. C. Fleischer. 2005. A framework phylogeny of parrot genera derived from mitochondrial coding and nuclear intron sequences. American Ornithological Union, annual meeting. Santa Barbara, CA.
- Eberhard, J. R. 2002. Call variation in island endemic subspecies of the Brown Throated Parakeet. North American Ornithological Conference, New Orleans, Louisiana.
- Eberhard, J. R. and E. Bermingham. 2000. Biogeography of *Pionopsitta* parrots and *Pteroglossus* toucans. Society for the Study of Evolution, annual meeting, Bloomington, Indiana.
- Wright, T. F., J. R. Eberhard, E. Bermingham, and G. S. Wilkinson. 2000. Concerted evolution of duplicate mitochondrial control regions in the parrot genus *Amazona*. Society for the Study of Evolution, annual meeting, Bloomington, Indiana.
- Eberhard, J. R., and E. Bermingham. 1999. Phylogeny and biogeography of the *Amazona ochrocephala* species complex. VI Congress of Neotropical Ornithology, Monterrey, Mexico.
- Eberhard, J. R. and Cristina Yumi Miyaki. 1999. Conservation genetics of Neotropical parrots. . VI Congress of Neotropical Ornithology, Monterrey, Mexico.
- Eberhard, J. R. 1998. The evolution of nest-building behavior in parrots and other cavity-nesting birds. North American Ornithological Conference, St. Louis, Missouri.
- Eberhard, J. R. and E. Bermingham. 1998. Phylogeny and biogeography of the *Amazona ochrocephala* species complex. North American Ornithological Conference, St. Louis, Missouri.
- Eberhard, J. R. 1996. Evolution of nest-building behavior in parrots. Society for the Study of Evolution, annual meeting, St. Louis, Missouri.

INVITED SEMINARS

- 2010 Dept. of Renewable Natural Resources, Louisiana State University
- 2008 Dept. of Zoology, University of Melbourne, Australia
Dept. of Botany, Latrobe University, Australia
Escuela de Biología, Universidad de Costa Rica
- 2006 Museum on Natural Science, Louisiana State University
Dept. of Biology, New Mexico State University
- 2005 Dept. of Zoology, University of British Columbia
- 2004 Dept. of Biological Sciences, University of New Orleans
Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela.
- 2003 Dept. of Ecology, Ethology & Evolution, University of Illinois, Urbana/Champaign
Dept. of Renewable Natural Resources, Louisiana State University
- 2002 Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela

- Department of Biological Sciences, Louisiana State University
Museum of Natural Science, Louisiana State University
- 2001 Utkal University, Bhubaneswar, India
Pondicherry University, Pondicherry, India
- 2000 Smithsonian Tropical Research Institute, Balboa, Panama
Ecology, Evol. & Marine Biology Dept., University of California, Santa Barbara
- 1999 Instituto de Ecología, Xalapa, Mexico
Parque Natural Metropolitano, Balboa, Panama
Tropical Forest Research Centre, Atherton, Australia
James Cook University, Cairns, Australia
- 1997 Estación Biológica Charles Darwin, Galápagos, Ecuador
Smithsonian Tropical Research Institute, Balboa, Panama

GRANTS AND AWARDS

- 2006 NIH-SCORE grant (subaward; PI: Timothy Wright, New Mexico State Univ.)
- 2003 AAAS/NSF Women's International Science Collaboration grant
- 2001 Committee for Research and Exploration, National Geographic Society grant
- 1997 American Ornithological Union, Alexander Wetmore Award.
- 1997 Frank M. Chapman Memorial Fund, award for post-doctoral research.
- 1995 Assoc. for Women in Science Educational Foundation, Citation of Merit.
- 1994 Sigma Xi Grant-in-Aid of Research.
- 1991-1994 National Science Foundation Graduate Fellowship.
- 1990 William C. Young Prize (Amherst College) to fund summer research.
- 1989 National Science Foundation Research Experience for Undergraduates Program (Paul W. Ewald, P.I.).
- 1989 Ford Foundation Grant to support undergraduate honors research.

HONORS

- 2018 Volunteer of the Year finalist, Associated Professional Educators of Louisiana
- 2018 Volunteer of the Year finalist, Volunteers in Public Schools (EBR Parish)
- 2011 National Wildlife Research Center Award for Outstanding Publication (Gonçalves da Silva et al, Molecular Ecology, 2010)
- 1990 Oscar E. Schotté Award for best honors thesis in biology.
- 1990 Cooper Ornithological Society Student Membership Award.

MEMBERSHIPS

- American Ornithologists' Union (Elective Member)
- American Society of Naturalists
- Association for Parrot Conservation
- Association for Tropical Biology and Conservation
- Bombay Natural History Society
- Ecological Society of America
- Society of Sigma Xi
- Society for the Study of Evolution

World Parrot Trust

PROFESSIONAL SERVICE

- Manuscript reviewer for the following journals: The Auk, Behaviour, Bioacoustics, Biotropica, Butlletí del Grup Català d'Anellament, Caribbean Journal of Science, The Condor, Current Zoology, Evolution, Genetics and Molecular Biology, The Ibis, Journal of Avian Biology, Journal of Biogeography, Journal of Field Ornithology, Journal of Heredity, Journal of Louisiana Ornithology, Journal of Ornithology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Oikos, Ornitología Neotropical, PLoS ONE, Revista de la Sociedad Entomológica Argentina, Systematic Biology.
- Proposal Reviewer for the following agencies: National Science Foundation (U.S.), National Research Foundation (South Africa).
- 2006, 2007, 2008, 2009, 2010 Member, Mewaldt-King Award committee, Cooper Ornithological Society
- 2006 Reviewer, Graduate Women in Science/Eloise Gerry Fellowship

COMMUNITY OUTREACH

- Team co-manager for a Destination Imagination team of 4th and 5th graders at the Baton Rouge Center for Visual & Performing Arts. The team won first place at the state competition, and went on to compete at the D.I. global competition in Knoxville, TN. (2017-2018)
- Co-Mentor of Science Stars, an after-school STEM club for 4th and 5th graders at the Baton Rouge Center for Visual & Performing Arts (2014-2017)
- Presentation on Animal Communication for the LSU Museum of Natural Science's Special Saturdays series of science programs for elementary-age children.
- Hosted a high school senior from St. Joseph's Academy (Baton Rouge, LA), who shadowed me in the laboratory for two days.
- Designed a non-academic slide presentation on the biology and conservation of parrots, for presentation to non-scientific audiences. Have given the presentation in Spanish for a seminar series at a national park in Panama and to a group of Panamanian police cadets, and in English to retirees in Arizona and elementary school students in Iowa.
- Participated in Career Day at a local middle school (Sherwood M. S., Baton Rouge LA)

LANGUAGES

Fluent in spoken and written Spanish.
Basic knowledge of French.