

REBECCA T. KIMBALL

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EDUCATION

Ph.D. (Biology). "Sexual selection in House Sparrows, *Passer domesticus*." (J. D. Ligon, advisor). University of New Mexico, Albuquerque, New Mexico, 1995.

B.A. (Biology). Dartmouth College, Hanover, New Hampshire, 1985.

RESEARCH INTERESTS

I am broadly interested in evolution, particularly (though not exclusively) of birds. My research has focused in two main areas. The first area is molecular phylogenetics and population genetics. The second area is behavioral ecology, where I am interested in mating systems, sexual selection and the evolution and proximate control of secondary sexual characters. I am interested in integrating these two areas, by using phylogenetics to understand and examine the evolution of avian behaviors and traits. I am also interested in using population genetic data to understand genetic consequences and conservation implications of different mating systems and behaviors.

PROFESSIONAL POSITIONS

Associate Professor. University of Florida, Department of Zoology. 2006 – present.

Assistant Professor. University of Florida, Department of Zoology. 2003 – 2006.

Assistant Scientist. University of Florida, Department of Zoology. 2001 - 2003.

Postdoctoral Researcher (Competitive Teaching postdoctoral position). Ohio State University, Department of Evolution, Ecology, and Organismal Biology. 2000-2001. Taught Introduction to Human Physiology. Conducted research on the molecular systematics of the Asteraceae with Dr. D. J. Crawford; included examining biogeographic patterns, trait evolution, and timing of divergences.

Visiting Scientist. Ohio State University, Department of Evolution, Ecology, and Organismal Biology. 1999-2000. Conducted postdoctoral research with Dr. D. J. Crawford. Was supported on an NSF grant on the Phylogeny of the Lemnaceae (to Dr. Crawford and Dr. Don Les, Univ. of Connecticut).

Research Assistant Professor. University of New Mexico, Department of Biology. 1995-1998. Conducted research with Dr. J. D. Ligon on the phylogeny of galliform birds using molecular techniques; focused on the evolution of ornamental traits among pheasants.

Contractor. Army Corps of Engineers, Albuquerque District, New Mexico. 1994, 1995. Surveyed for the endangered Southwestern Willow Flycatcher.

PUBLICATIONS

- Whiteman, N.K., **R.T. Kimball**, and P.G. Parker. In press. Co-phylogeography and comparative population genetics of the threatened Galápagos hawk and three ectoparasite species: ecology shapes population histories within parasite communities. *Molecular Ecology*.
- Mort, M.E., C.P. Randle, **R.T. Kimball**, M. Tadesse, and D.J. Crawford. In press. Phylogeny of Coreopsidae (Asteraceae): Insights from Nuclear and Plastid Sequences. *Taxon*.
- Chojnowski, J.L., J. Franklin, Y. Katsu, T. Iguchi, L.J. Guillette Jr, **R.T. Kimball** and E.L. Braun. 2007. Patterns of Vertebrate Isochore Evolution Revealed by Comparison of Expressed Mammalian, Avian and Crocodylian Genes. *Journal of Molecular Evolution* 65: 259-266.
- Cox, W. A., **R.T. Kimball**, and E. L. Braun. 2007. Phylogenetic position of the New World quail (Odontophoridae): eight nuclear loci and three mitochondrial regions contradict morphology and the Sibley-Ahlquist tapestry. *Auk* 124: 71-84.
- Gibb, G.C., O. Kardailsky, **R.T. Kimball**, E.L. Braun, and D. Penny. 2007. Mitochondrial genomes and avian phylogeny: Complex characters and resolvability without explosive radiations. *Molecular Biology and Evolution* 24: 269-280.
- Kimball, R.T.**, E.L. Braun, J.D. Ligon, E. Randi, and V. Lucchini. 2006. Using molecular phylogenetics to interpret evolutionary changes in morphology and behavior in the Phasianidae. *Acta Zoologica Sinica* 52 (supplement): 362-365.
- Crowe, T.M., P. Bloomer, E. Randi, V. Lucchini, **R. Kimball**, E. Braun, and J.G. Groth. 2006. Supra-generic cladistics of landfowl (Order Galliformes). *Acta Zoologica Sinica* 52 (supplement): 358-361.
- Bollmer, J. L., **R.T. Kimball**, N. K. Whiteman, J. H. Sarasola, and P.G. Parker. 2006. Phylogeography of the Galápagos Hawk (*Buteo galapagoensis*): a recent arrival to the Galápagos Islands. *Molecular Phylogenetics and Evolution* 39: 237-247.
- Kimball, R.T.** 2006. Hormonal control of avian coloration. Pp. 431-468. *in* Bird Coloration I: measurements and mechanisms. G. E. Hill and K. McGraw, eds. Harvard Univ. Press.
- Crawford, D. J., E. Landolt, D. H. Les, and **R.T. Kimball**. 2005. Speciation in duckweeds (Lemnaceae): phylogenetic and ecological inferences. *Aliso* 22:229-240.
- Crawford, D. J., E. Landolt, D. H. Les, J. K. Archibald, and **R.T. Kimball**. 2005. Allozyme variation within and divergence between *Lemna gibba* and *L. disperma*: systematic and biogeographic implications. *Aquatic Botany* 83: 119-128.
- Kimball, R.T.** and D.J. Crawford. 2004. Phylogeny of Coreopsidae (Asteraceae) using ITS sequences suggests lability in reproductive characters. *Molecular Phylogenetics and Evolution* 33: 127-139.
- Les, D.H., D.J. Crawford, **R.T. Kimball**, M.L. Moody, and E. Landolt. 2003. Biogeography of discontinuously distributed hydrophytes: a molecular appraisal of intercontinental disjunctions. *International Journal of Plant Sciences* 164: 917-932.
- Kimball, R.T.**, J.C. Bednarz, and P.G. Parker. 2003. Occurrence and evolution of cooperative breeding among diurnal raptors (Accipitridae and Falconidae). *Auk* 120: 717-729.
- Kimball, R.T.**, D.J. Crawford, D.H. Les, and E. Landolt. 2003. Out of Africa: molecular phylogenetics and biogeography of *Wolffiella* (Lemnaceae). *Biological Journal of the Linnean Society* 79: 565-576.
- Kimball, R.T.**, E.D. Smith, and D.J. Crawford. 2003. Molecular phylogeny and evolution of *Coreocarpus* (Asteraceae). *Evolution* 57: 52-61.
- Braun, E.L. and **R.T. Kimball**. 2002. Examining Basal Avian Divergences with Mitochondrial Sequences: Model Complexity, Taxon Sampling and Sequence Length. *Systematic Biology* 51: 614-625.

- Les, D.H., D.J. Crawford, E. Landolt, J.D. Gabel, and **R.T. Kimball**. 2002. Phylogeny and systematics of Lemnaceae Dumortier, the duckweed family. *Systematic Botany* 27: 221-240.
- Kimball, R.T.**, D.J. Crawford, J.R. Page and P. J. Harmon. 2001. Intersimple Sequence Repeat (ISSR) diversity within *Monarda fistulosa* var. *brevis* (Lamiaceae) and divergence between var. *brevis* and var. *fistulosa* in West Virginia. *Brittonia* 53: 511-518.
- Crawford, D. J., E. Landolt, D. H. Les, and **R.T. Kimball**. 2001. Allozyme studies in Lemnaceae: variation and relationships in *Lemna* sections *Alatae* and *Biformes*. *Taxon* 50: 987-999.
- Crawford, D.J., **R.T. Kimball**, and M. Tadesse. 2001. The generic placement of a morphologically enigmatic species in Asteraceae: evidence from ITS sequences. *Plant Systematics and Evolution* 228: 63-69.
- Armstrong, M.H., E.L. Braun, and **R.T. Kimball**. 2001. Phylogenetic Utility of Avian Ovomuroid Intron G: A Comparison of Nuclear and Mitochondrial Phylogenies in the Galliformes. *Auk* 118: 799-804.
- Kimball, R.T.**, E.L. Braun, J.D. Ligon, E. Randi, and V. Lucchini. 2001. A Molecular Phylogeny of the Peacock-pheasants (Galliformes: *Polyplectron* spp.) Indicates Loss and Reduction of Ornamental Traits and Display Behaviors. *Biological Journal of the Linnean Society* 73: 187-198.
- Randi, E., V. Lucchini, A. Hennache, **R.T. Kimball**, E.L. Braun, and J.D. Ligon. 2001. Evolution of the mitochondrial DNA control-region and cytochrome *b* genes, and the inference of phylogenetic relationships in the avian genus *Lophura* (Galliformes). *Molecular Phylogenetics and Evolution* 19: 187-201.
- Lowrey, T.K., C.J. Quinn, R.K. Taylor, R. Chan, **R.T. Kimball**, J.C. De Nardi. 2001. Molecular and morphological reassessment of relationships with the *Vittadinia* group of Astereae (Asteraceae). *American Journal of Botany* 88: 1279-1289.
- Braun, E.L., and **R.T. Kimball**. 2001. Polytomies, the power of phylogenetic inference, and the stochastic nature of molecular evolution: a reply to Walsh et al. (1999). *Evolution* 55: 1261-1263.
- Randi, E, V. Lucchini, T. Armijo-Prewitt, **R.T. Kimball**, E.L. Braun, and J.D. Ligon. 2000. Mitochondrial DNA phylogeny and speciation of the tragopans. *Auk* 117: 1003-1015.
- Kimball, R.T.** and J.D. Ligon. 1999. Evolution of avian plumage dichromatism from a proximate perspective. *American Naturalist* 154: 182-193.
- Kimball, R.T.**, E.L. Braun, P. Zwartjes, T.M. Crowe, and J.D. Ligon. 1999. A molecular phylogeny of the pheasants and partridges suggests that these lineages are not monophyletic. *Molecular Phylogenetics and Evolution* 11: 38-54.
- Furlow, F.B., **R.T. Kimball**, M.C. Marshall. 1998. Are rooster crows honest signals of fighting ability? *Auk* 115: 763-766.
- Ligon, J.D., **R.T. Kimball**, and M. Merola-Zwartjes. 1998. Mate choice in red junglefowl: the issues of multiple ornaments and fluctuating asymmetry. *Animal Behaviour*: 55: 41-50.
- Kimball, R.T.** 1997. Male morphology and nest-site quality in House Sparrows. *Wilson Bulletin* 109: 711-719.
- Kimball, R.T.**, J.D. Ligon, and M. Merola-Zwartjes. 1997. Testicular asymmetry and secondary sexual characters in red junglefowl. *Auk* 114: 221-228.
- Kimball, R.T.**, E.L. Braun, and J.D. Ligon. 1997. Resolution of the phylogenetic position of the Congo peafowl, *Afropavo congensis*: a biogeographic and evolutionary enigma. *Proceedings of the Royal Society of London B* 264: 1517-1523.

- Kimball, R.T.**, J.D. Ligon, and M. Merola-Zwartjes. 1997. Fluctuating asymmetry in red junglefowl. *Journal of Evolutionary Biology* 10: 441-457.
- Hagelin, J.C. and **R.T. Kimball**. 1997. A female Gambel's Quail with partial male plumage. *Wilson Bulletin* 109:544-546.
- Kimball, R.T.** 1996. Female choice for male morphological traits in house sparrows, *Passer domesticus*. *Ethology* 102:639-648.
- Møller, A.P., **R.T. Kimball**, and J. Erritzøe. 1996. Sexual ornamentation, condition, and immune defense in the house sparrow *Passer domesticus*. *Behavioral Ecology and Sociobiology* 39: 317-322.

MANUSCRIPTS: In revision and Submitted

- Yuri, T., M.J. Braun, **R.T. Kimball**, and E.L. Braun. In revision. Duplication of growth hormone gene and accelerated evolution in passerine birds. *Molecular Biology and Evolution*.
- Kimball, R.T.**, and E.L. Braun. In Revision. A Multigene Phylogeny of Galliformes Supports a Single Origin of Erectile Ability in Non-feathered Facial Traits. *Journal of Avian Biology*.
- Chojnowski, J., **R.T. Kimball**, and E.L. Braun. In Revision. Introns outperform exons in analyses of basal avian phylogeny using clathrin heavy chain genes. *Gene*.
- Harshman, J. E.L. Braun, M.J. Braun, C.J. Huddleston, R.C.K. Bowie, J.L. Chojnowski, S. Hackett, K-L. Han, **R.T. Kimball**, B.D. Marks, K.J. Miglia, W.A. Moore, S. Reddy, F.H. Sheldon, C. Witt, and T. Yuri. Submitted. Phylogenomic evidence for multiple losses of flight in ratite birds. *Science*.
- Haas, S.E., **R.T. Kimball**, J. Martin, and W. Kitchens. Submitted. Genetic divergence among snail kite populations: implications for the conservation of the endangered Florida snail kite (*Rostrhamus sociabilis*). *Animal Conservation*.
- Krakauer, A. and **R.T. Kimball**. Submitted. Heterospecific brood parasitism in galliform birds. *Ibis*.
- Hull, J.M., W. Savage, J.L. Bollmer, **R.T. Kimball**, P.G. Parker, N. Whiteman, H.B. Ernest. Submitted. On the origin of a Galápagos Archipelago lineage: Phenotypic differentiation and the phylogenetic relationships of Swainson's (*Buteo swainsoni*) and Galápagos (*B. galapagoensis*) hawks. *Biological Journal of the Linnean Society*.
- Lomáscolo, S., P. Speranza, and **R.T. Kimball**. Submitted. Correlated evolution of fig size and color in *Ficus* (Moraceae) supports the Dispersal Syndrome hypothesis. *Oecologia*.

MANUSCRIPTS: In Prep

- S. Hackett, **R. T. Kimball**, S. Reddy, E. L. Braun, M. Braun, R. Bowie, J.L. Chojnowski, K-L Han, J. Harshman, C. Huddleston, B. Marks, K. Miglia, W.A. Moore, F.H. Sheldon, D. Steadman, and C. Witt. Multi-gene phylogeny of the major lineages of birds. For submission to *Science*.
- Haas, S.E., **R.T. Kimball**, and A.M. Clark. Isolation and characterization of nine polymorphic microsatellite markers for the brown-headed nuthatch (*Sitta pusilla*). For submission to *Molecular Ecology Notes*.

PRESENTATIONS

- Harshman, J., E.L. Braun, M.J. Braun, R.C.K. Bowie, J. Chojnowski, S. Hackett, K.L. Han, C.J. Huddleston, R.T. Kimball, B.D. Marks, K.J. Miglia, W.S. Moore, S. Reddy, F.H. Sheldon, D.W. Steadman, S.J. Steppan, C.C. Witt, T. Yuri. Phylogenomic evidence for multiple losses of flight in ratite birds. 2007. Association of Field Ornithologists Orono, Maine.
- Les, D.H., D.J. Crawford, N.P. Tippery, R.T. Kimball, E. Landolt. 2007. Duckweeds go nuclear: successful sequencing of nrDNA lends support to the phylogeny of Lemnaceae. Botany and Plant Biology 2007. Chicago, IL.
- Reddy, S., S. Hackett, R. Kimball, E. L. Braun, M. Braun, R. Bowie, K-L Han, J. Harshman, C. Huddleston, B. Marks, K. Miglia, W. A. Moore, F. H. Sheldon, D. Steadman, and C. Witt. 2006. Assembling the avian tree of life: evaluating signal and conflict in a 19 gene dataset. 24th International Ornithological Congress, Hamburg, Germany. [Invited]
- Harshman, J., E.L. Braun, M.J. Braun, R.C.K. Bowie, J. Chojnowski, S. Hackett, K.L. Han, C.J. Huddleston, **R.T. Kimball**, B.D. Marks, K.J. Miglia, W.S. Moore, S. Reddy, F.H. Sheldon, D.W. Steadman, C.C. Witt, T. Yuri. Earlybird, an international collaboration in deep molecular phylogenetics of birds: can assault by masses of DNA sequences and sampled species breach the wall of death. . 24th International Ornithological Congress, Hamburg, Germany. [Invited]
- Harshman, J., E.L. Braun, M.J. Braun, R.C.K. Bowie, J. Chojnowski, S. Hackett, K.L. Han, C.J. Huddleston, **R.T. Kimball**, B.D. Marks, K.J. Miglia, W.S. Moore, S. Reddy, F.H. Sheldon, D.W. Steadman, C.C. Witt, T. Yuri. 2006. Earlybird, an international collaboration in deep molecular phylogenetics of birds: can assault by masses of DNA sequences and sampled species breach the wall of death. . 24th International Ornithological Congress, Hamburg, Germany. [Invited]
- Whiteman, N.K., J.L. Bollmer, **R.T. Kimball**, V.S. Dosanjh and P. Parker. 2006. Comparative microevolutionary dynamics of an endemic Galápagos bird and its five ectoparasite species: A model for studying parasite speciation. Entomological Society of America, Indianapolis, IN.
- Kimball, R.T.**, N. Elejalde, and J. Bates. 2006. Genetic data suggest possible hybridization between the African and the Redbellied Paradise Flycatcher. North American Ornithological Congress, Veracruz, Mexico.
- Haas, S.E., J.A. Cox, **R.T. Kimball**. 2006. Genetic structure within a population of cooperatively-breeding Brown-headed Nuthatches. North American Ornithological Congress, Veracruz, Mexico.
- Whiteman, N. K., J.L. Bollmer, **R.T. Kimball**, K. D Matson, and P.G. Parker. 2006. Avian disease ecology: insights from a model host-ectoparasite system in the Galápagos Islands. North American Ornithological Congress, Veracruz, Mexico.
- Bollmer, J.L., N.K. Whiteman, **R.T. Kimball**, K.D. Matson, and P.G. Parker. 2006. Population genetics of the endemic Galápagos Hawk: a recent arrival to the Galápagos Islands. North American Ornithological Congress, Veracruz, Mexico. [Invited]
- Braun, M.J., C.J. Huddleston, K.L. Han, S. Hackett, J. Harshman, R. Bowie, E. Braun, **R. Kimball**, J. Chojnowski, B. Marks, K. Miglia, W. Moore, S. Reddy, F. Sheldon, C. Witt, T. Yuri. 2006. Are raptorial birds each other's closest relatives? North American Ornithological Congress, Veracruz, Mexico. [Invited]
- Braun, M.J., C.J. Huddleston, K.L. Han, T. Yuri, S. Hackett, J. Harshman, R. Bowie, S. Reddy,

- E. Braun, **R. Kimball**, J. Chojnowski, W. Moore, K. Miglia, F. Sheldon, B. Marks, and C. Witt. The utility of introns and other non-coding DNA sequences for deep node phylogenetic inference. 24th International Ornithological Congress, Hamburg, Germany.
- Reddy, S., S. Hackett, **R. Kimball**, E. L. Braun, M. Braun, R. Bowie, K-L Han, J. Harshman, C. Huddleston, B. Marks, K. Miglia, W. A. Moore, F. H. Sheldon, D. Steadman, and C. Witt. Assembling the Avian Tree of Life: Examining signal and conflict in a 19 gene dataset. 24th International Ornithological Congress, Hamburg, Germany. [Invited]
- Harshman, J., E. L. Braun, M. Braun, R. Bowie, S. Hackett, K-L Han, C. Huddleston, **R. Kimball**, B. Marks, K. Miglia, W. A. Moore, S. Reddy, F. H. Sheldon, D. Steadman, and C. Witt. Early Bird, an international collaboration in deep molecular phylogenetics of birds: can assault by masses of DNA sequences and sampled species breach the wall of death? 24th International Ornithological Congress, Hamburg, Germany.
- Kimball, R.T.** and E.L. Braun. 2006. Evolution of introns in galliform birds. *Evolution* 2006, Stony Brook, NY.
- Reddy, S., S. Hackett, **R. Kimball**, E. L. Braun, M. Braun, R. Bowie, K-L Han, J. Harshman, C. Huddleston, B. Marks, K. Miglia, W. A. Moore, F. H. Sheldon, D. Steadman, and C. Witt. Assembling the avian tree of life: evaluating signal and conflict in a 19 gene dataset. *Evolution* 2006, Stony Brook, NY.
- Braun, E.L., **R.T. Kimball**, S. Hackett, M. Braun, J. Harshman, W. Moore, F. Sheldon, D. Steadman, R. Bowie, J. Chojnowski, K-L Han, C. Huddleston, B. Marks, K. Miglia, C. Witt and T. Yuri. Analysis of deep avian phylogeny using alignment free methods. *Evolution* 2006, Stony Brook, NY.
- Kimball, R.T.** 2006. Avian Phylogenomics. Genetics Institute, University of Florida. [Invited]
- Kimball, R.T.**, B. Marks and K-L Han. 2006. Relationship between evolution of the visual pigment rhodopsin and transitions to a nocturnal lifestyle in birds. Society for Integrative and Comparative Biology, Orlando, FL.
- Bonilla, A.J., **R.T. Kimball**, and E.L. Braun. 2006. Conservation and Molecular Evolution of 3' Untranslated Regions in Birds. Society for Integrative and Comparative Biology, Orlando, FL.
- Smith, J.V., **R.T. Kimball**, and E.L. Braun. 2006. Resolving the Phylogeny of Paleognathes: A Novel Genomic Approach. Society for Integrative and Comparative Biology, Orlando, FL.
- Heimer-Torres, V.R., E.L. Braun, and **R.T. Kimball**. 2006. Molecular Evolution of Non-Canonical Introns in the Class Aves. Society for Integrative and Comparative Biology, Orlando, FL.
- Kimball, R.T.**, B. Burkley, E. L. Braun and W. A. Cox. 2005. Phylogenetic relationships within the Galliformes inferred from sequences of 14 nuclear loci. American Ornithologists' Union, Santa Barbara, CA.
- Kimball, R.T.**, S. Hackett, E. Braun, M. Braun, J. Harshman, W. Moore, F. Sheldon, D. Steadman, R. Bowie, J. Chojnowski, C. Huddleston, B. Marks, K. Miglia, C. Witt and T. Yuri. 2005. Molecular evolutionary properties of gene regions used in the Early Bird project. American Ornithologists' Union, Santa Barbara, CA.
- Crawford, D.J., E. Landolt, D. Les and **R.T. Kimball**. Biogeography and Speciation in the Plant Family Lemnaceae (duckweeds); Insights from Molecular and Ecological Data. Korean Association of Biological Sciences, Daejeon, Korea. [Invited]
- Braun, M.J., C.J. Huddleston, K.L. Han, T. Yuri, J. Hunt, M. Krosby, S. Hackett, J. Harshman, R. Bowie, S. Reddy, M. Burns, E. Sackett, R. Flynn, E. Braun, **R. Kimball**, D. Steadman, J.

- Chojnowski, W. Moore, K. Miglia, F. Sheldon, B. Marks, C. Witt, L. Cristidis, J. Norman, R. Page, R.T. Chesser, and D. Swofford. 2005. Early bird: a collaborative project to resolve the deep nodes of avian phylogeny. Wilson Ornithological Society, Beltsville, MD.
- Braun, E.L. and **R.T. Kimball**. 2005. Problems using mitochondrial data to resolve avian phylogeny. Museum of Natural History, Louisiana State University.
- Kimball, R.T.** 2004. Evolution in the galliforms. University of New Mexico, Albuquerque, NM. [Invited]
- Kimball, R.T.** D. J. Crawford, and T. K. Lowrey. 2004. A molecular study of *Brachylaena* (Asteraceae): phylogenetic and biogeographic implications. Botany 2004. Snowbird, Utah.
- Kimball, R.T.**, N. K. Whiteman, J. L. Bollmer, and P. G. Parker. 2004. Phylogeography of Galapagos Hawks. Evolution 2004, Colorado State University, Fort Collins, CO.
- Whiteman, N., **R. Kimball**, J. Bollmer, and P. Parker. 2004. Host-parasite evolution on the Galapagos Islands. Evolution 2004, Colorado State University, Fort Collins, CO.
- Braun, E. L., R. C. K. Bowie, M. J. Braun, S. J. Hackett, K.-L. Han, J. Harshmann, C. Huddleston, **R.T. Kimball**, B. D. Marks, K. J. Miglia, W.A. Moore, F.H. Sheldon, D. Steadman, T. Yuri. 2004. Early Bird – a large-scale approach to avian phylogeny. Evolution 2004, Colorado State University, Fort Collins, CO.
- Harshmann, J., E. L. Braun, M.J. Braun, R. C. K. Bowie, K.-L. Han, C. Huddleston, T. Yuri, **R. Kimball**, B. D. Marks, F. H. Sheldon, K. J. Miglia, W. A. Moore, D. Steadman. 2004. What, if anything, is a ratite? Evolution 2004, Colorado State University, Fort Collins, CO.
- Chojnowski, J., **R.T. Kimball**, and E.L. Braun. 2004. A comparison of paralogous *clathrin-heavy chain* genes in avian phylogenetics. Evolution 2004, Colorado State, Fort Collins, CO.
- Miglia, K., T. Yuri, W. A. Moore, R. C. K. Bowie, E. L. Braun, M. J. Braun, S. J. Hackett, K.-L. Han, J. Harshmann, C. Huddleston, **R.T. Kimball**, B. D. Marks, F. H. Sheldon, D. Steadman. 2004. Early Bird: Comparative study of nucleotide substitutions in introns, exons and utrs in avian orders. Evolution 2004, Colo. State University, Fort Collins, CO.
- Harshmann, J., E. L. Braun, M. J. Braun, R. C. K. Bowie, S.H. Hackett, K.-L. Han, C. Huddleston, T. Yuri, **R. Kimball**, B. D. Marks, F. H. Sheldon, K. J. Miglia, W. A. Moore, D. Steadman. 2004. What, if anything, is a ratite? American Ornithologists' Union, Quebec City, Canada.
- Kimball, R.T.** and Braun, E.L. 2003. Evolution of ornamentation in the Phasianidae: implications from molecular phylogenetics. Evolution 2003, Chico, California.
- Braun, E.L. and **R.T. Kimball**. 2003. A genomic view of polytomies in species trees: a case study in the Avian genus *Gallus*. Evolution 2003, Chico, California.
- Hackett, S., E. Braun, M. Braun, J. Harshman, **R. Kimball**, W. Moore, F. Sheldon, D. Steadman, R. Bowie, R.T. Chesser, J. Chojnowski, L. Cristidis, M. Krosby, B. Marks, K. Miglia, R. Page, and T. Yuri. 2003. Early Bird: A collaborative project to resolve the deep nodes of avian phylogeny. 121st American Ornithologists' Union Meeting, Urbana-Champaign, Illinois.
- Braun, E.L., co-authored with members of the Early Bird consortium and the Alligator Genome working group. Evolutionary Genomics of the Archosauria: Initial Results from the "Early Bird" and Alligator Genome Projects. Evolutionary Genomics Conference, Tucson, AZ.

- Crawford, D.J., D.H. Les, E. Landolt, and **R.T. Kimball**. 2003. Speciation in Lemnaceae (duckweeds): inferences from molecular data. Monocots III, Ontario, California.
- Kimball, R.T.**, P. G. Parker, and J. C. Bednarz. 2002. The occurrence and evolution of cooperative breeding among the diurnal raptors. North American Ornithological Conference, New Orleans, LA.
- Kimball, R.T.**, E. L. Braun, J. D. Ligon, E. Randi, and V. Lucchini. 2002. Using molecular phylogenetics to understand evolutionary changes in morphology and behavior in the Phasianidae. 23rd International Ornithological Congress, Beijing China.
- Braun, E. L. and **R.T. Kimball**. 2002. The role of evolutionary model complexity and taxon sampling upon avian phylogenetic estimation. 23rd International Ornithological Congress, Beijing China. [Invited]
- Crowe, T. M., P. Bloomer, E. Randi, V. Lucchini, **R.T. Kimball**, E. Braun and J. G. Groth. 2002. Phylogeny of the Galliformes. 23rd International Ornithological Congress, Beijing China. [Invited]
- Crawford, D. J., **R.T. Kimball**, D. H. Les, E. Landolt, and L. E. Wallace. 2002. The origin of *Lemna japonica*: insights from molecular data. Botanical Society of America, Madison, WI.
- Les, D. H., D. J. Crawford, **R.T. Kimball**, M. L. Moody, and Elias Landolt. 2002. Biogeography of cosmopolitan hydrophytes: a molecular appraisal of intercontinental disjunctions. Botanical Society of America, Madison, WI.
- Crawford, D.J., **R.T. Kimball** and Mesfin Tadesse. 2001. Relationships in subtribe Coreopsidinae (Asteraceae: Heliantheae): insights from ITS sequences. Botanical Society of America Meeting, Albuquerque, NM.
- Kimball, R.T.**, J.C. Bednarz, and P.G. Parker. 2000. The occurrence of cooperative breeding in Falconiformes. Raptor Research Foundation, Fayetteville, AR.
- Kimball, R.T.** 2000. Mitochondrial and nuclear phylogenies within the avian order Galliformes: implications for evolutionary processes. Fordham University, NY.
- Kimball, R.T.** and E.L. Braun. 2000. Comparison of nuclear intron and mitochondrial phylogenies in the avian order Galliformes. Evolution, Bloomington, IN.
- Crawford, D.J., D.H. Les, E. Landolt, **R.T. Kimball**, and J.D. Gabel. 2000. A phylogenetic study of the genus *Wolffiella*. Botanical Society of America, Portland, OR.
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- Kimball, R.T.** 1999. Mitochondrial and nuclear phylogenies within the avian order Galliformes: implications for evolutionary processes. Illinois Natural History Survey, IL.
- Kimball, R.T.** 1999. Evolution of the pheasants and partridges. Ohio State University, OH.
- Parker, P.G., J.L. Bollmer, **R. Kimball**, J.C. Bednarz, Tj. DeVries, M. Donaghy Cannon, D. Sanchez, T. Sanchez, S.M. Struve, and J. Faaborg. 1999. Galápagos hawks: genetic

- studies of variable mating systems. Symposium on molecular evolutionary ecology, European Society for Evolutionary Biology, Barcelona, Spain.
- Chan, R., T. Lowrey, D. Natvig, **R. Kimball**, R. Whitkus, and C. Quinn. 1999. Molecular phylogeny of *Tetramolopium* (Asteraceae). XVI International Botanical Congress, St. Louis, MO.
- Kimball, R.T.** 1998. A molecular phylogeny of the pheasants and partridges. University of Maryland, MD. [Invited]
- Kimball, R.T.**, E.L. Braun, P. Zwartjes, and J.D. Ligon. 1996. Phylogenetic relationships within and between the pheasants and partridges. Analysis of Biological Diversity, Tucson, AZ.
- Furlow, F.B., M.C. Marshall, and **R.T. Kimball**. 1996. The Case of the Soprano Junglefowl: Do Bird Vocalizations Reveal Developmental Health? New Mexico Ornithological Society, Albuquerque, NM.
- Kimball, R.T.** 1994. The Role of Fluctuating Asymmetry in the Bids of Male House Sparrows. Animal Behavior Society, Seattle, WA.
- Kimball, R.T.** 1992. Mate Choice in House Sparrows. New Mexico Ornithological Society, Albuquerque, NM.
- Kimball, R.T.** 1989. Adoption or Infanticide by Replacement Mates in Acorn Woodpeckers. University of New Mexico, Albuquerque, NM.

GOVERNMENT PUBLICATIONS

- Finch, D. M., J. L. Ganey, W. Yong, R. Kimball, and R. Sallabanks. 1997. Effects and interactions of fire, logging, and grazing. *In* Songbird Ecology in Southwestern Ponderosa Pine Forests: A literature review. USDA Forest Service Gen. Tech. Rep. RM-GTR-292: 103-136.
- Mehlman, D., K. Gordon, D. Gray, R. Kimball, M. J. Mund-Meyerson. 1995. 1995 survey for and habitat characteristics of the southwestern willow flycatcher (*Empidonax traillii extimus*) in the Isleta-Belen reach of the Rio Grande, New Mexico. Report to the U.S. Army Corps of Engineers, Albuquerque District.
- Mund, M. J., R. Kimball, D. Mehlman, K. Gordon, J. Travis, and D. Gray. 1994. Survey for the Southwestern Willow Flycatcher, *Empidonax traillii extimus*, in the Middle Rio Grande Flood Protection Project area, Isleta Pueblo to south of Belen. Report to the U.S. Army Corps of Engineers, Albuquerque District.

GRANTS

In Review:

- Kimball, R.T. and E.L. Braun. National Science Foundation. COLLABORATIVE RESEARCH: Resolving deep polytomies: theoretical and empirical phylogenomic approaches using birds. \$405,881.00. (3 year award, 2008-2010).

Funded:

- Kimball, R.T. 2007. National Science Foundation. REU supplement to ATOL: COLLABORATIVE RESEARCH Early Bird: A Collaborative Project to Resolve the Deep Nodes of Avian Phylogeny. \$12,000.

Kimball, R.T., E. L. Braun, and D. W. Steadman. 2002 - 2006. National Science Foundation. ATOL: COLLABORATIVE RESEARCH Early Bird: A Collaborative Project to Resolve the Deep Nodes of Avian Phylogeny. \$454,697.

Kimball, R.T. and E.L. Braun. 2005. National Science Foundation REU supplement to ATOL: COLLABORATIVE RESEARCH Early Bird: A Collaborative Project to Resolve the Deep Nodes of Avian Phylogeny. \$14,000.

Additional grants: Sigma Xi Grant-in-Aid-of-Research; Chapman Memorial Fund, AMNH; Student Research Allocations Committee, UNM; Graduate Research Allocations Committee, UNM; Vice-President's Graduate Research Fund, UNM; Arts and Sciences Fund, UNM.

TEACHING EXPERIENCE

Evolution. University of Florida 2007.

Behavioral Ecology (graduate level). University of Florida 2004, 2006.

Integrated Principles of Biology II. University of Florida 2001 – present.

Phylogenetic Comparative Methods. University of Florida 2002.

Introduction to Human Physiology (Ohio State University. 2000-2001).

Introductory Biology for majors, I and II. University of New Mexico 1996 – 1997.

Non-majors Human Anatomy and Physiology. University of New Mexico 1991.

Teaching Assistant. University of New Mexico. 1987-1995. Taught labs for: Introductory Biology (both semesters), Human Anatomy and Physiology (both semesters), Ecology, General Vertebrate Zoology, Animal Behavior, Ornithology, Biology for non-majors, Human Anatomy and Physiology for non-majors.

Teaching Assistant. Duke University, Durham, NC. 1992. Taught Introductory Biology labs.

SERVICE TO SCIENTIFIC ORGANIZATIONS

Society for Systematic Biology, Council Member (elected position). 2008-2010.

Pheasant Specialist Group of the World Pheasant Association (invited member). 2002-present.

American Ornithologists' Union, Student Awards Committee (invited member). 2005-present.

Cooper Ornithological Society, Harry R. Painton Award Committee (invited member). 2004.

REFEREE FOR:

American Naturalist, Animal Behaviour, Annals of Botany, Auk, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Conservation, Biological Journal of the Linnean Society, Botanical Bulletin of Academia Sinica, Cladistics, Condor, Evolution, Evolutionary Ecology, Journal of Avian Biology, Journal of Raptor Research, Journal of Zoology, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, Molecular Ecology, Ostrich, Proceedings of the Royal Society of London B, Systematic Biology, Zoological Journal of the Linnean Society, Zoological Society of Japan

National Science Foundation – Animal Behavior, Systematics and Population Biology. Panel member in Systematics.

GRADUATE STUDENTS, current and former

PhD Students: Greg Babbitt (Co-chair), Julie Allen, Jena Chojnowski, Christine Edwards, Jeremy Kirchman, Hope Klug, Silvia Lomascolo, Maria Malay, Ashley Morris, Clare Ritschoff, Wendy Schelsky

MS Students: Sarah Haas (Co-chair), Deena Westbrook (Co-chair), Melissa Nasuti (Co-Chair), Jackson Frechette, Alfred Thompson

DEPARTMENT SERVICE

Strategic Planning Committee (Co-Chair, 2006-present)
Search Committee, Evolutionary Morphology Search (2006-2007)
Executive Committee (2006-present)
Graduate Committee (2003-2006)
Seminar Committee (Co-Chair, 2003-2006)

PROFESSIONAL SOCIETIES

American Ornithologists' Union
Cooper Ornithological Society
Animal Behaviour Society
Society for the Study of Evolution
Society for Systematic Biology