

## Christopher C. Austin: Biographical Sketch

### A. Expertise

*Population Genetics and Evolutionary Biogeography of Amphibians and Reptiles*: use of genetic data to resolve intra and interspecific relationships in a geological historical context.

*Systematics and Taxonomy*: use of molecules and morphology to describe new species of amphibians and reptiles in a phylogenetic context.

*Invasive Species*: use of genomic data to identify the spatial, temporal, and anthropogenic aspects of invasive species.

*Parasitology*: identification and description of new species of parasites and their biogeography and systematics.

*Biodiversity Conservation*: conservation genomics of threatened and endangered species, including demography, genetic diversity, and parasitology.

### B. Professional Preparation

University of California at Davis ( <i>citation, honors</i> )	B.S. Zoology	1984-1989
University of Texas at Austin	Ph.D. Zoology	1989-1995
NSF Postdoctoral Fellow, S. Australian Museum, Adelaide		1995-1997
Myer Postdoctoral Fellow, Australian Museum, Sydney		1997
NSF Postdoctoral Fellow, University of California, San Diego		1997-1998
ISM Postdoctoral Fellow, Institute of Statistical Mathematics, Tokyo		1998-1999

### C. Appointments

2009-present	Associate Professor/Curator, Department of Biological Sciences, and Museum of Natural History, Louisiana State University.
2003-2008	Assistant Professor/Curator, Department of Biological Sciences, and Museum of Natural History, Louisiana State University.
2000-2002	Assistant Professor, Department of Biology, University of North Dakota

### D. Publications Related to Project (of 52 publications in print or in press).

Jackson, N.D. and C.C. **Austin** (2012). Inferring hierarchical population genetic structure within a lizard species comprised of cryptic, incompletely-sorted lineages (genus *Scincella*). *Biological Journal of the Linnean Society*, 107:193-209

E.N. Rittmeyer, C.C. **Austin**. (2012) The effects of sampling on delimiting species from multi-locus sequence data. *Molecular Phylogenetics and Evolution*, 65:451-463.

**Austin**, C.C., Rittmeyer, E., Oliver, L., Anderman, J., Zug, G.R, Rodda, G.H. and N.D. Jackson (2011). The bioinvasion of Guam: inferring geographic origin, pace, pattern and process of an invasive lizard (*Carlia*) in the Pacific using multi-locus genomic data. *Biological Invasions*, 13:1951-1967.

**Austin**, C.C., Rittmeyer, R.N., Richards, S.J., and G.R. Zug. (2010) Molecular Phylogeny, Historical Biogeography and Body Size Evolution in Pacific Island Crocodile Skinks *Tribolonotus* (Squamata; Scincidae). *Molecular Phylogenetics and Evolution*, 96(5):968-971.

**Austin**, C.C. (1999). Lizards took express train to Polynesia. *Nature* 397:113-114.

### Five Other significant Publications

**Austin**, C.C., Spataro, M., Peterson, S., Jordan, J., and J.D. McVay. (2010). Conservation genetics of Boelen's python (*Morelia boeleni*) from New Guinea: reduced genetic

- diversity and divergence of captive and wild animals. *Conservation Genetics*, 11:889-896.
- Jackson, N.D. and C.C. **Austin** (2010). The combined effects of rivers and refugia generate extreme cryptic fragmentation within the common ground skink (*Scincella lateralis*). *Evolution*, 64(2):409-428.
- Hamilton, A.M., Hartman, J.H., and C.C. **Austin** (2009). Island area and species diversity in the southwest Pacific Ocean: Is the lizard fauna of Vanuatu depauperate? *Ecography*, 32:247-258.
- Piskurek, O., **Austin**, C.C. and N. Okada. (2006). Sauria SINEs: Genealogy of novel short interspersed retrotransposable elements that are widespread in reptile genomes. *Journal of Molecular Evolution*, 62:630-644.
- Fuerst, G.S. and C.C. **Austin**. (2004). Population genetic structure of the Prairie Skink (*Eumeces septentrionalis*): nested clade analysis of post Pleistocene populations. *Journal of Herpetology*, 38:257-268.

## E. Synergistic Activities

*International educational outreach*: I constructed three tri-lingual 'Kwik Guides' to help local people, educators, scientists and tourists identify some of the most common reptile and amphibian species in New Guinea ('kwik' is the neo-Melanesian or New Guinea Pidgin spelling of 'quick'). The guides were designed as educational posters and can be downloaded as high quality pdf files (<http://www.museum.lsu.edu/Austin/lab.html>). These Kwik Guides were funded with support from the US National Science Foundation (DEB 0445213). Input on these Kwik Guides was provided by the Papua New Guinea Department of Education and the Papua New Guinea National Museum and Art Gallery.

*Service in academic societies*: Editor for one journal and associate editor for two journals. Manuscript and proposal reviewer for 28 journals and 5 granting agencies.

*Museum collections*: Contributing to herpetological specimen collections of Texas Memorial Museum, Papua New Guinea National Museum, South Australian Museum, Australian Museum, Smithsonian, and the Museum of Natural Science at Louisiana State University.

## F. Collaborators & Other Affiliations

**Allen Allison**, Bishop Museum (USA); **Ilaiah Bigilale**, Papua New Guinea National Museum (Papua New Guinea); **Rafe Brown**, University of Kansas (USA), **David Cannatella**, University of Texas at Austin (USA); **Chris Dahl**, University of Papua New Guinea (Papua New Guinea); **Steve Donnellan**, South Australian Museum (Australia); **Steve Goldberg**, Whittier College; **Djoko Iskandar**, Bandung Institute of Technology (Indonesia) **Fred Kraus**, Bishop Museum (USA); **Susan Perkins**, American Museum of Natural History (USA); **Olilver Piskurek**, Tokyo Institute of Technology (Japan); **Tod Reeder**, San Diego State University (USA); **Steve Richards**, Conservation International (Australia); **Glenn Shea**, University of Sydney (Australia); **John Wiens**, Stony Brook State University (USA); **George Zug**, Smithsonian (USA)