

Bryan C. Carstens

**contact
information**

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**academic
positions**

August 2007
Assistant Professor, Department of Biological Sciences
Louisiana State University

January 2005 to May 2007
Post-doctoral Researcher in the lab of Lacey Knowles,
Department of Ecology & Evolutionary Biology, University of Michigan

education

Ph.D. in Zoology — University of Idaho (December 2004)
under the direction of Jack Sullivan
M.S. in Zoology — Michigan State University (May 2001)
under the direction of Barbara Lundrigan
B.S. Zoology — Michigan State University (May 1998)
B.A. English — Michigan State University (December 1993)

professional

Society for the Study of Evolution, Society of Systematic Biologists

organizations

Editorial Review Board: Molecular Ecology (2006-2009)

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service

Reviews provided for: American Midland Naturalist, American Museum Novitates, American Naturalist, Bioinformatics, Biological Journal of the Linnean Society, Evolution, Gene, Genetica, Journal of Biogeography, Journal of Heredity, Journal of Mammalogy, Journal of Mammalian Evolution, Journal of Molecular Evolution, Molecular Ecology, Molecular Phylogenetics & Evolution, Occasional Papers of the Museum of Texas Tech University, Proceedings of the Royal Society of London (B), Systematic Biology.

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manuscripts

Richards CL, Carstens BC, Knowles LL (2007) Distribution modelling and statistical phylogeography: An integrative framework for generating and testing alternative biogeographical hypotheses. *Journal of Biogeography*, *in press*.

Carstens BC, Richards CL (2007) Integrating coalescent and ecological niche modeling in comparative phylogeography. *Evolution* **61**, 1439-1454.

Knowles LL, Carstens BC, Keat ML (2007) Coupling genetic and ecological niche models to examine how past population distributions contribute to divergence. *Current Biology* **17**, 1-7.

Carstens BC, Knowles LL (2007) Estimating phylogeny from gene tree probabilities in *Melanoplus* grasshoppers despite incomplete lineage sorting. *Systematic Biology* **56**, 400-411.

Carstens BC, Knowles LL (2007) Shifting distributions and speciation: genomic resolution of species divergence during rapid climate change. *Molecular Ecology* **16**, 619-627.

Brunsfeld SJ, Miller TR, Carstens BC (2007) Insights into the biogeography of the Pacific Northwest of North America: Evidence from the phylogeography of *Salix melanopsis* (Salicaceae). *Systematic Botany* **32**, 129-139.

Knowles LL, Carstens BC (2007) Inferring a population-divergence model for statistical phylogeographic tests in montane grasshoppers. *Evolution* **61**, 477-493.

Carstens BC, Knowles LL (2006) Variable nuclear markers for *Melanoplus oregonensis* identified from the screening of a genomic library. *Molecular Ecology Notes*, **6**, 683-685.

Carstens BC, Brunsfeld SJ, Demboski JR, Good JD, Sullivan J (2005) Investigating the evolutionary history of the Pacific Northwest mesic forest ecosystem: Hypothesis testing within a comparative phylogeographic framework. *Evolution*, **59**, 1639-1652.

Carstens BC, Degenhardt JD, Stevenson AL, Sullivan J (2005) Accounting for coalescent stochasticity in testing phylogeographic hypotheses: Modeling Pleistocene population structure in the Idaho Giant Salamander *Dicamptodon aterrimus*. *Molecular Ecology* **14**, 255-265.

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manuscripts

Carstens BC, Bankhead III A, Joyce P, Sullivan J (2005) Testing population genetic structure using parametric bootstrapping. *Genetica* **124**, 71-75.

Steele CA, Carstens BC, Storfer A, Sullivan J (2005) Testing hypotheses of speciation timing in *Dicamptodon copei* and *Dicamptodon aterrimus* (Caudata: Dicamptodontidae). *Molecular Phylogenetics & Evolution* **36**, 90-100.

Johnson DG, Carstens BC, Sheppard WS, Zack RS (2005) Phylogeny of the leafhopper subgenus *Errhomus* (Erronus) (Hemiptera: Homoptera: Cicadellidae) based on mitochondrial DNA sequences. *Annals of the Entomological Society of America* **98**, 165-172.

Carstens BC, Stevenson AL, Degenhardt JD, Sullivan J (2004) Testing nested phylogenetic and phylogeographic hypotheses in the *Plethodon vandykei* species group. *Systematic Biology* **53**, 781-792.

Carstens BC, Sullivan J, Davalos LM, Larsen PA, Pedersen SC (2004) Exploring population genetic structure in three species of Lesser Antillean bats. *Molecular Ecology* **13**, 2557-2566.

Carstens BC, Lundrigan BL, Myers P (2002) A phylogeny of the Neotropical nectar-feeding bats (Chiroptera: Phyllostomidae) based on morphological and molecular data. *Journal of Mammalian Evolution* **9**, 23-53.

grants & awards

2004 Graduate Student of the Year Award, Department of Biological Sciences, University of Idaho

2004 Student Presentation Award, EVO-WIBO

2003 University of Idaho Presidential Fellowship

2003 Idaho State Wildlife Grant. *Assessing Population Density in D. aterrimus*

2002 University of Idaho Presidential Fellowship

2001 University of Idaho Presidential Fellowship

teaching experience

2003. Teaching Assistant. Principles of Systematic Biology, UI.

2001. Teaching Assistant. Center for Integrated Studies in the Biological Sciences, MSU.

2000-1998. Teaching Assistant. Biology Sciences, MSU.

1998-1996. Education Specialist. Organization for Bat Conservation.

mentoring & outreach activities

Publications with undergraduate students: Jeremiah Degenhardt, Angela Stevenson, Peter Larsen, Marcia Keat.

Training of undergraduate students: Javan Bauder, Bernard Chan, Jeremiah Degenhardt, Marcia Keat, Clay Small, Angela Stevenson, Karina Villa.

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field experience

Collecting and surveying amphibians in the Pacific Northwest, behavioral ecology of ground squirrel populations in the Sierra Nevada Mountains, handling and preparing a variety of amphibians, reptiles and small mammals, mist-netting bats in Michigan, and basic ecological field methods.

references

available on request