

Benjamin P. Keck

Dept. Ecology and Evolutionary Biology
University of Tennessee
569 Dabney Hall
Knoxville, TN 37996

Email: benjamin.keck@yale.edu

Phone: 865-974-1948

Professional Affiliations

2011 to Present – Postdoctoral Associate, University of Tennessee, Dept. Ecology and Evolutionary Biology, Lab of Darrin Hulsey
2009 to 2011 – Postdoctoral Associate, Yale University, Dept. Ecology and Evolutionary Biology, Lab of Thomas Near

Education

Ph.D. University of Tennessee, 2009. Ecology and Evolutionary Biology
M.Sc. University of Tennessee, 2003. Ecology and Evolutionary Biology
B.S. Centre College. 1999. Biology.

Teaching

Ichthyology lab, Aquatic Entomology lab, General Ecology lab,
General Biology for Majors lab

Publications

- Hulsey, C.D., **B.P. Keck**, and P.R. Hollingsworth. 2011. Species tree estimation and the historical biogeography of heroine cichlids. *Molecular Phylogenetics & Evolution* 58; 124-131
- Keck, B.P.** and T.J. Near. 2010. A young clade repeating an old pattern: Diversity in *Nothonotus* Darters (Teleostei: Percidae) endemic to the Cumberland River. *Molecular Ecology* 19; 5030-5042
- Keck, B.P.** and T.J. Near. 2010. Geographic and temporal aspects of mitochondrial replacement in *Nothonotus* Darters (Teleostei: Percidae: Etheostomatinae). *Evolution*. 64(5); 1410-1428
- Keck, B.P.** and T.J. Near. 2009. Patterns of natural hybridization in Darters (Percidae: Etheostomatinae). *Copeia* 2009; 759-774
- Keck, B.P.** and T.J. Near. 2008. Assessing phylogenetic resolution among mitochondrial, nuclear, and morphological datasets in *Nothonotus* Darters (Teleostei: Percidae). *Molecular Phylogenetics & Evolution* 46; 708-720
- Near, T.J. and **B.P. Keck**. 2005. Dispersal, vicariance, and timing of diversification in *Nothonotus* Darters. *Molecular Ecology* 14; 3485-3496
- Keck, B.P.** and D.A. Etnier. 2005. Distributional changes of the fishes of the Hatchie River System in western Tennessee and northern Mississippi. *Southeastern Naturalist* 4(4); 597-626

Awards

2008 Student Poster Award. Southeastern Fishes Council meeting, Chattanooga, TN.

Funding

North American Native Fish Association: Conservation Research Grant, 2009.

Presentations at Professional Meetings (past five years only)

Phylogeography of *Nothonotus camurus*, Bluebreast Darter. Southeastern Fishes Council meeting. Athens, GA, 2010.

Species tree estimation in a clade with known introgression. American Society of Ichthyologists and Herpetologists. Providence, RI, 2010.

Range contraction and relict populations: Genetic diversity in *Nothonotus chlorobranchius*, Greenfin Darter. Southeastern Fishes Council meeting. Guntersville, AL, 2009

Information in the gene trees of introgressed genomes: Sweeps, zones, and founder effects. American Society of Ichthyologists and Herpetologists. Portland, OR, 2009

Geographic and temporal aspects of mitochondrial replacement in the Redline Darter, *Nothonotus rufilineatus*. Southeastern Fishes Council meeting. Chattanooga, TN, 2008

A new species of *Nothonotus* darter from the Caney Fork River and paraphyly in its sister clade of *N. microlepidus* and *N. sanguifluus*. Poster. Southeastern Fishes Council meeting. Chattanooga, TN, 2008

Geographic patterns of mito-nuclear discordance in *Nothonotus* darters (Teleostei: Percidae). Society for the Study of Evolution meeting. Minneapolis, MN, 2008

Genetic & Meristic Analysis of *Nothonotus sanguifluus*. American Society of Ichthyologists and Herpetologists meeting. St. Louis, MO, 2007

Hybridization and introgression in *Nothonotus* darters. American Society of Ichthyologists and Herpetologists meeting. New Orleans, LA, 2006

Hybridization in *Nothonotus* darters. Association of Southeastern Biologists meeting. Gatlinburg, TN, 2006

Dispersal, vicariance, and timing of diversification in *Nothonotus* darters. American Society of Ichthyologists and Herpetologists meeting. Tampa, FL, 2005.

Fishes of the Hatchie River System. Southeastern Ecology and Evolution Conference. Athens, GA, 2005.

Invited Presentations

Biology Department, Centre College, Danville, KY, November 2007

Society Memberships

American Fisheries Society, American Society of Ichthyologists and Herpetologists, Association of Southeastern Biologists, Society for the Study of Evolution, Society of Systematic Biologists, Southeastern Fishes Council

Peer Reviews

Biological Invasions, Bulletin of the Peabody Museum of Natural History, Copeia, Conservation Genetics, Ecography, Molecular Phylogenetics and Evolution, Northeastern Naturalist, Southeastern Naturalist

Service and Outreach

The diversity of North American fishes. Norwalk Aquarium Society (CT), 2010.
The diversity of North American fishes. Bucks County (PA) Aquarium Society, 2009.
Ichthyological surveys for The Nature Conservancy. Wolf River, TN. 2005
Field trip and presentation about local fishes for Louisville Tropical Fish Fanciers
aquarium fish club. Louisville, KY. 2004

References

Thomas J. Near, PhD
Assistant Professor, Dept. Ecology and Evolutionary Biology
Curator of the ichthyology collection, Yale Peabody Museum of Natural History
370 ESC
Yale University
New Haven, CT 06520
phone: 203-432-3002
e-mail: thomas.near@yale.edu

David A. Etnier, PhD
Professor Emeritus, Dept. Ecology and Evolutionary Biology
Curator University of Tennessee Etnier Ichthyology Collection
569 Dabney Hall
University of Tennessee
Knoxville, TN 37996
phone: 865-974-3107
e-mail: dipnet@utk.edu

C. Darrin Hulsey, PhD
Assistant Professor, Dept. Ecology and Evolutionary Biology
569 Dabney Hall
University of Tennessee
Knoxville, TN 37996
phone: 865-974-2189
e-mail: chulsey@utk.edu