

*Curriculum Vitae*

**MICHAEL W. SANDEL**

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PERSONAL INFORMATION

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Date of birth: Hometown	13 August, 1980: Mansfield, Ohio
Current residence	Northport, Alabama
Spouse	Dawn Marie (DeKrell) Sandel, MT-BC, M.Ed.
Children	Austin (5.5 years) Evan (2.5 years)
Military service	Air National Guard (15 years)

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CURRENT POSITION

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Assistant Professor  
Department of Biological and Environmental Sciences  
College of Natural Sciences and Mathematics  
The University of West Alabama  
Station 7 Bibb Graves Hall  
Livingston, Alabama 35470  
[evozoa@gmail.com](mailto:evozoa@gmail.com)

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ACADEMIC PREPARATION

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- 2014 **NHLBI T-32 Postdoctoral Research Training Fellowship: Statistical Genetics**  
*The University of Alabama at Birmingham, Birmingham, AL*
- 2012 **Doctor of Philosophy: Biological Sciences**  
*The University of Alabama, Tuscaloosa, AL*
- ABD **Master of Science (candidate): Physical Geography**  
*The University of Alabama, Tuscaloosa, AL*
- 2004 **Bachelor of Science: Zoology**  
*The Ohio State University, Columbus, OH*
- 2003 **Associate of Applied Science: Aerospace Technology**  
*The Community College of the Air Force, Montgomery, AL*

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HONORS AND AWARDS

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- 2014 Most Creative Proposal Presentation: New Energetics Ideas Round II. UAB NORC  
Travel Award: Mathematical Biosciences Institute, The Ohio State University  
Travel Award: NIMBioS, University of Tennessee  
Program for Excellence in Science Award: AAAS
- 2013 Naomi Fineberg Distinguished New Researcher Award: UAB Dept. of Biostatistics  
Creativity is a Decision Prize: UAB Nutrition and Obesity Research Center  
Career Development Award: UAB Office of Postdoctoral Education
- 2012 Statistical Genetics and Genomics Bursary Award: NIGMS  
Comparative Genomics Tuition Stipend: Cold Spring Harbor Laboratory
- 2009 McNair Scholars Honor Society Induction
- 2007 Second Runner-up Student Oral Presentation Competition: SFC Annual Conference  
Joab L. Thomas Endowed Fellowship: UA School of Arts and Sciences
- 2006 Best Student Presentation Award: Southeastern Division ASIH  
Golden Key International Honor Society Induction
- 2005 Air University Achievement Medal: United States Air Force

- 2004 Student Advisory Committee Appointment: OSU Department of EEOB  
2003 Mad Collector Award: Stone Laboratories, The Ohio State University

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## POST-SECONDARY TEACHING EXPERIENCE

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### **Instructor**

*Stillman College, Tuscaloosa, AL*

Environmental Science: BIO 433: Introduction to exposure, toxicology, and human-environment interaction. Comprehensive course development, including syllabus, lectures, interactive activities, written examinations and performance evaluation.

### **Guest Lecturer**

*The University of Alabama, Tuscaloosa, AL*

Outdoor Action: University Honors Program: UH 173

Discover Alabama: Field Biology for Educators: BSC 595

### **Graduate Teaching Assistant**

*The University of Alabama, Tuscaloosa, AL*

Biology of Fishes Laboratory (with lectures): BSC 428/528

Vertebrate Zoology Laboratory (with lectures): BSC 373

Introduction to Biology Laboratory I and II (Majors and Non-Majors): BSC 108-117

Natural Resource Management: BSC 444

Vertebrate Functional Morphology Laboratory: BSC 400/500

Vertebrate Anatomy and Physiology Laboratory: BSC 215

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## SPECIALIZED TRAINING

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- 2014 **Phylogeographic Inference using Approximated Likelihoods (PHRAPL): NSF**  
*Mathematical Biosciences Institute, The Ohio State University, Columbus, OH*  
**Mathematical Sciences in Obesity Research: NIH-NIDDK**  
*The University of Alabama at Birmingham, Birmingham, AL*  
**Predictive Models for Ecological Risk Assessment Workshop: EPA**  
*National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville, TN*
- 2013 **Quantitative Evolutionary Genetics Course: NSF**  
*National Evolutionary Synthesis Center, Durham, NC*  
**Metabolomics Workshop: NIH-NHLBI**  
*The University of Alabama at Birmingham, Birmingham, AL*  
**Population Studies Workshop: NIH-NHLBI**  
*National Institutes of Health, Bethesda, MD*
- 2012 **Statistical Genetics and Genomics short course: NIH-NIGMS**  
*The University of Alabama at Birmingham, Birmingham, AL*  
**Computational and Comparative Genomics Course**  
*Cold Spring Harbor Laboratory, Cold Spring Harbor, NY*  
**Next Generation Sequencing Technology and Statistical Methods: NIH-NHGRI**  
*The University of Alabama at Birmingham, Birmingham, AL*
- 2005 **PADI Open water SCUBA certification**
- 2003 **Larval fishes identification workshop**  
*Stone Laboratories, The Ohio State University, Put-in-Bay, OH*

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## RESEARCH EXPERIENCE

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### **Post-Doctoral Research Fellow**

*Department of Biostatistics, The University of Alabama at Birmingham*

Research Concentration: Mitochondrial genomic determinants of metabolism, and nuclear-mitochondrial crosstalk. I am using mitochondrial data to develop research

methods applied to the study of aging, speciation, and ecotoxicology. I also have ongoing projects focused on the conservation of freshwater biodiversity.

**Doctoral Dissertation Research 2005-2012**

*Department of Biological Sciences, The University of Alabama, Tuscaloosa, AL*

Research Concentration: Molecular Genetics of Aquatic Animals

Dissertation: Evolutionary Relationships and Historical Biogeography of Elasmobranchii

An examination of genetic variation of the pygmy sunfishes (Elasmobranchii) and related species. Papers include a phylogenetic analysis of all spiny ray-finned fishes, interspecific trait evolution, and phylogeography of a single wide-ranging species.

During this time I also conducted a conservation assessment and population genetics study on the Spring Pygmy Sunfish, which was funded by four agencies and NGOs. The results of the study were supportive of a successful petition to protect this species under the Endangered Species Act.

**UAIC Curatorial Research Assistant 2005-2006**

*The University of Alabama Ichthyological Collection, Tuscaloosa, AL*

**Aquatic Biology Consultant 2003-2004**

*The Ohio State University Museum of Biological Diversity, Columbus, OH*

Engaged in independent and collaborative osteology research, assisted with fieldwork and electronic curation of the world's fifth largest academic ichthyological collection.

**Assistant Field Biologist 2003**

*Ohio River Valley Water Sanitation Commission (ORSANCO), Cincinnati, OH*

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FUNDS RECEIVED – *Sum of independently solicited research funds = \$69,300*

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- 2013 **UAB Department of Biostatistics:** \$500  
Naomi Fineberg Distinguished New Researcher award  
*Monkeys, cancer, and the self-similarity of genomic coevolution*  
**UAB Nutrition and Obesity Research Center:** \$2,500  
*Genomic determinants of metabolic diversification among Baikal sculpins*  
**UAB Office of Postdoctoral Education:** \$1,500  
*Genomic determinants of metabolic diversification among Baikal sculpins*
- 2012 **NIGMS:** Statistical Genetics and Genomics Bursary Award: \$1,500  
*Mitochondrial SNPs Associated with Longevity in Humans: A Multiethnic Approach*
- 2010 **USFWS:** ADWFF Section 6 Conservation Grant: \$13,155  
*Population genetics of the Mud Sunfish (*Acantharchus pomotis*)*
- 2009 **USFWS:** Flexible Funds for Conservation Research: \$20,000  
*Population genetics and Conservation Status Update of the Spring Pygmy Sunfish*
- 2006 **USFWS:** ADWFF Section 6 Conservation Grant: \$27,345  
*Population genetics and Conservation Status Update of the Spring Pygmy Sunfish (*Elassoma alabamae*).*
- 2005 **American Museum of Natural History:** Theodore Roosevelt Memorial Grant: \$1,500  
*Comparative Phylogeography of Elasmobranchii: A Test of the Interglacial Refugia Hypothesis.*  
**North American Native Fishes Association:** Conservation Research Grant: \$500 &  
**Birmingham Audubon Society:** Walter Coxe Research Award: \$800  
*Conservation Genetics and Inbreeding Depression in the Critically Imperiled Spring Pygmy Sunfish (*Elassoma alabamae*)*

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PENDING AND PREPARED APPLICATIONS

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New submission in prep: NSF IOS, Symbiosis, Defense, and Self-recognition  
The dermal mucosa of guppy (*Poecilia reticulata*) as a model for the study of  
vertebrate-bacteriophage coevolution. Collaborators: Eric Benbow, Heather Jordan

Resubmission in prep: NSF DEB, Biodiversity: Discovery and Analysis #1429677  
Sink or swim: Phenomic and transcriptomic diversification of the endemic sculpins  
(Teleostei: Cottidae) of Lake Baikal

Resubmission in prep: NSF DEB, Emerging Frontiers DEB #1428833: Historical,  
geographical and ecological influences on the diversity of freshwater fishes in the  
eastern U.S. PI – Eric Hilton, coinvestigators- Andres Lopez, Casey Dillman

Resubmission in prep: R-01 National Institute of Aging: Comparative genomic analysis  
of rockfish species with extraordinary variation in maximum lifespan. PI – Oleg  
Evgrafov, coinvestigators – Vince Buonnacorsi, Andres Aguilar

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PUBLICATIONS AND REPORTS

<http://orcid.org/0000-0001-9083-9202>

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- Allison D, Antoine L, Ballinger S, Bamman M, Biga P, Darley-Usmar V, Fisher G, Gohlke J, Halade G, Hartman J, Hunter G, Messina J, Nagy T, Plaisance E, Roth K, **Sandel M**, Schwartz T, Smith D, Sweatt JD, Tollefsbol T, Watts S, Yang Y, Zhang J, Austad S. 2014. Aging and energetics' 'Top 40' future research opportunities 2010-2013. *F1000Research*. 3:219.
- Harris PM, Hubbard GK, and **Sandel M**. 2014. Catostomidae (book chapter). pp. 451-502. *In: Freshwater Fishes of North America: Volume 1: Petromyzontidae to Catostomidae*. M Warren and BM Burr, eds. John Hopkins Press.
- Sandel M**, Rohde F, Harris P. 2014. Interspecific relationships and the evolution of sexual dimorphism in pygmy sunfishes. *Molecular Phylogenetics and Evolution*. 77: 166-176.
- Sandel M\***, Dunham-Snary K, Westbrook D, Ballinger S. 2014. A method for assessing mitochondrial bioenergetics in whole white adipose tissues. *Redox Biology*. 2(14): 656-660. \*Shared first authorship with Dunham-Snary.
- Bagley J, **Sandel M**, Wooten J, Travis J, de Lourdes Lozano-Vilano M, Johnson J. 2013. Testing biogeographic hypotheses of Plio-Pleistocene history and diversification along the North American Gulf-Atlantic Coastal Plain in least killifish (*Heterandria formosa*). *BMC Evolutionary Biology*. 13: 223.
- Near TJ, **Sandel M**, Kuhn K, Unmack PJ, Wainwright PC, Smith WL. 2012. Nuclear gene inferred phylogenies resolve the relationships of the enigmatic pygmy sunfishes, *Elassoma* (Teleostei: Percomorpha). *Molecular Phylogenetics and Evolution*. 63: 388-395.
- Makowsky R, Yan Q, **Sandel M**, Wiener HW, Aissani B, Kaslow RA, Tiwari HK, Shrestha S. 2012. A comparison of principal component analysis using autosomal variants with phylogeny based on Y-chromosome and mitochondrial markers. *Frontiers in Genetics* 3:301.
- Sandel M**. 2012. Phylogeographic diagnosis of a newly discovered population of Mud Sunfish (*Acantharchus pomotis*) in Southern Alabama. Final Report submitted to Alabama Division of Wildlife and Freshwater Fisheries. 21 pp.
- Sandel M**. 2011. *Elassoma alabamae*: Southeastern Fishes Council Imperiled Species Conservation Plans. Special publication *Southeastern Fishes Council Proceedings*.
- Sandel M**. 2011. United States Fish and Wildlife Service: Interim Report on the Conservation Status of *Elassoma alabamae*, a Species in Rapid Decline. 13 pp.

- Sandel M.** 2009. The Desperate Dozen: *Elassoma alabamae* (Mayden 1993). *Southeastern Fishes Council Proceedings*. 52(1): 15.
- Sandel M**, Greenwald N. 2009. United States Fish and Wildlife Service: Petition to List the Spring Pygmy Sunfish (*Elassoma alabamae*) as an Endangered Species. 36 pp. Proposed rule (petition successful) released in the Federal Register, 1 October, 2012.
- Sandel M.** 2008. Final Report to the Alabama Division of Wildlife and Freshwater Fisheries: Conservation Genetics and Population Status Update of *Elassoma alabamae*. 45 pp.
- Sandel M**, Harris PM. 2007. Threatened Fishes of the World: *Elassoma boehlkei* (Rohde and Arndt, 1987). *Environmental Biology of Fishes*. Vol. 78(4): 289-290.
- Sandel M**, Harris PM. 2007. Threatened Fishes of the World: *Elassoma okatie* (Rohde and Arndt, 1987). *Environmental Biology of Fishes*. Vol. 80(4): 487-488.

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SUBMITTED AND PREPARED PUBLICATIONS

"\*" DENOTES UNDERGRADUATE COAUTHOR

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- Sandel M\***, Dunham-Snary KJ, Westbrook DG, Sammy MJ, Ratcliffe WF, Young ME, Ballinger SW. The Mitochondrial Genome Influences Body Composition, Energy Balance and Mitochondrial Bioenergetics in Mice. In preparation for *Science*. \*Shared first authorship with Dunham-Snary.
- Sandel M**, Teterina V, Kirilchik S, Lapidus A, Allison D, Tiwari H, O'brien S. Complete mitochondrial genomes of the genus *Comephorus* (Teleostei: Cottidae) reveal genetic associations with obesity related phenotypes. Prepared for *Molecular Biology*.
- Sandel M**, Aguilar A, Buonnacorsi V, Herstein J, Allison D, Austad S, Evgrafov O. Complete mitochondrial genomes of the genus *Sebastes* (Teleostei: Scorpaenidae) reveal genetic associations with extreme longevity. Prepared for *Aging*.
- Sandel M**, Tiwari HK, Singh KK. First evidence for mitochondrial pseudogene transposition as an indicator of colorectal cancer progression. Prepared for *Science*.
- Sandel M**, Unmack P, Miya M, Mahon A, Harris PM. Less is more: A mitogenome data purging strategy reconciles a rogue taxon (Teleostei: Centrarchidae: *Elassoma*) and corroborates an emerging acanthomorph phylogeny. Prepared for *Systematic Biology*.
- Sandel M**, Harris PM. Phylogeography of *Elassoma zonatum* concords with geology and paleohydrography of the Gulf-Atlantic Coastal Plain. Prepared for *Molecular Ecology*.
- Holliman C, Davidson M, **Sandel M**, Singh KK, Tiwari HK. Statistical Methods for Investigation of Mitochondrial Disorders. Submitted to *Frontiers Genetics*.

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INVITED PRESENTATIONS

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- Sandel M. November 18<sup>th</sup> 2013 [oral presentation] Don't call it a comeback: Mitochondrial DNA in the Next Generation of Comparative Genomics. Jackson Heart Study Group, Jackson, MS.
- Sandel M. September 2<sup>nd</sup> 2013 [oral presentation] Evolutionary Ecology of Freshwater Sculpins. Russian Academy of Sciences Limnological Institute, Irkutsk Oblast.
- Sandel M. April 13<sup>th</sup> 2013 [oral presentation] Evolutionary Relationships of Pygmy Sunfishes (*Elassoma*): Characterization of an Optimal Model for Historical Biogeography. Dobzhansky Genome Bioinformatics Center, St. Petersburg, Russia.
- Sandel M. 2013 [oral presentation] A Hard NUMT to Crack: Characterizing Mitochondrial Pseudogenes in Healthy and Malignant Human Cells. Evolutionary Studies Program of The University of Alabama.
- Sandel M. 2012 [oral presentation] Evolutionary Origins and Conservation Implications of the Aquatic Biodiversity Hotspot in the Southeastern United States. University of West Alabama, Department of Mathematics and Natural Sciences.
- Sandel M. 2012 [oral presentation] Aquatic Biodiversity Conservation and Implications for Human Health. North American Native Fishes Association Annual Convention, Cambridge, OH.

- Sandel M. September 30<sup>th</sup> 2010 [oral presentation] Extraordinary mtDNA Substitution Rates within Pygmy Sunfishes (Elassomatidae): A Multi-scale Analysis of Molecular Divergence within North America's Most Ambiguous Fishes. University of Alabama at Birmingham, Section on Statistical Genetics Seminar Series.
- Sandel M. 2008 [oral presentation] The Desperate Dozen: *Elassoma alabamae*. Southeastern Fishes Council Annual Symposium, Chattanooga, TN.
- Sandel M. November 2007 [oral presentation] Comparative Phylogeography of Elassomatidae: A Test of the Interglacial Refugia Hypothesis. Science Seminar Series: Valdosta State University, Valdosta, GA.

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CONTRIBUTED PRESENTATIONS

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- Dunham-Snary KJ, Westbrook DG, Sammy MJ, Sandel M, Ratcliffe WF, Young ME, Ballinger SW. November 22<sup>nd</sup> 2013 [oral presentation] The Mitochondrial Genome Influence Body Composition, Energy Balance and Mitochondrial Bioenergetics in Mice. 20th Annual Society for Free Radical Biology and Medicine Meeting. San Antonio, TX.
- Sandel M. November 17<sup>th</sup> 2013 [oral presentation] New hypotheses regarding the generation of aquatic biodiversity in the southeastern United States. Southeastern Fishes Council, Guntersville, AL.
- Dunham-Snary KJ, Westbrook DG, Sammy MJ, Sandel M, Ratcliffe WF, Young ME, Ballinger SW. November 13<sup>th</sup> 2013 [oral presentation] The Mitochondrial Genome Influence Body Composition, Energy Balance and Mitochondrial Bioenergetics in Mice. UAB Graduate Biomedical Student Outreach Annual Fall Seminar. Birmingham, AL.
- Dunham-Snary KJ, Westbrook DG, Sammy MJ, Sandel M, Ratcliffe WF, Young ME, Ballinger SW. May 7<sup>th</sup> 2013 [oral presentation] The Role of Mitochondrial Genetic Background on Body Composition and Energy Balance. 4th Annual UAB Diabetes Research Day, May 7, 2012. Birmingham, AL. (Eliezer S. Award – Best Diabetes Abstract)
- Bagley JC, Sandel M, June 26<sup>th</sup> 2013 [poster presentation] Testing biogeographic hypotheses of Plio-Pleistocene history and diversification along the North American Gulf-Atlantic Coastal Plain in least killifish (*Heterandria formosa*). Evolution Joint Meeting, Snowbird, UT.
- Sandel M, Holliman C, Tiwari H, Singh K. [oral presentation] A Hard NUMT to Crack: Characterizing Mitochondrial Pseudogenes in Healthy and Malignant Human Cells UAB Postdoctoral Research Symposium, Birmingham, AL.
- Sandel M. July 2011 [oral presentation] Comparative Phylogeography of Fishes and Amphibians of the Gulf-Atlantic Coastal Plain. Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN.
- Kuhajda BR, Sandel M. November 2011 [oral presentation] Response of a fish community to stream restoration after a coal slurry spill in a tributary to the North River (Black Warrior Drainage, Mobile Basin) in Alabama. Southeastern Fishes Council Annual Meeting, Chattanooga, TN.
- Sandel M. July 2010 [oral presentation] Phylogenetic Affinities and Interrelationships of Centrarchidae and Elassomatidae: A Synthesis of Molecules, Morphology, and Biogeography. Joint Meeting of Ichthyologists and Herpetologists, Providence, RI.
- Sandel M. 2009 [oral presentation] Plight of the Pygmies: Coastal Plain Vicariance and Comparative Phylogeography of the Pygmy Sunfishes. American Fisheries Society, Nashville, TN.
- Sandel M. 2009 [oral presentation] Plight of the Pygmies: Coastal Plain Vicariance and Comparative Phylogeography of the Pygmy Sunfishes. Alabama Fisheries Association, Auburn, AL.
- Sandel M. March 2009 [oral presentation] Plight of the Pygmies: Coastal Plain Vicariance and Comparative Phylogeography of the Pygmy Sunfishes. Association of Southeastern Biologists, Birmingham, AL.

- Sandel M. 2008 [oral presentation] Comparative Phylogeography of Ellassomatidae: A Test of the Interglacial Refugia Hypothesis. Joint Evolution Meeting, Minneapolis, MN.
- Sandel M, Ott B. January 2008 [poster presentation] Comparative Bioenergetics of Endangered Freshwater Fishes and Widespread Relatives: A Case Study of Crenophiles from the Tennessee River Basin. Society for Integrative and Comparative Biology, San Antonio, TX.
- Sandel M. July 2008 [oral presentation] Comparative phylogeography of Ellassomatidae: A higher resolution test of the interglacial refugia hypothesis. Joint Meeting of Ichthyologists and Herpetologists, St. Louis, MO.
- Sandel M. October 2006 [poster presentation] From GIS to Gene Trees: Paleohydrography of the Southeastern Coastal Plain. 3<sup>rd</sup> Annual GIS Symposium at Auburn University, Auburn, AL.
- Sandel M. October 2006 [oral presentation] Comparative phylogeography of Ellassomatidae. American Fisheries Society Student Colloquium, Auburn, AL.
- Sandel M. July 2006 [oral presentation] Intraspecific Phylogeography of Ellassomatidae: A Test of the Interglacial Refugia Hypothesis. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA. (Best student presentation, ASIH-SE)

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## OUTREACH

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**Girls Engaged in Math and Science (GEMS), Oak Park Middle School, Decatur, Alabama.** This is my most recent outreach project, in which I aim to demonstrate the importance of wetland ecosystem services in reducing the risk of infectious disease. This project involves both field and classroom exercises, which require lesson plan development and coordination with collaborators at the Wetlands Edge Environmental Center in Decatur, Alabama.

**Hands-on-Herps Program, 2008-Present.** Over the past five years, I have developed an introduction to reptile and amphibian diversity for children, aged 3-16. This program draws attention to anthropogenic impacts on wildlife communities, while providing an interactive experience with a wide range of live animals. This program has been especially well received at the RISE school of Tuscaloosa, which serves pre-kindergarten children with special needs.

**Discover Alabama Television Series "Ask the Experts" program:** From 2006 to 2009 I served as an expert naturalist for a free-to-the-public, online reference service.

**Roll Tide Fish Show, University of Alabama.** I participated in an interactive exhibit of UAIC fishes before homecoming football games.

**4-H of Tuscaloosa County: NatureWorks Lecture Series.** In 2006 and 2007 I was a guest lecturer for Tuscaloosa 4-H. I used fieldwork to expose students to the diversity of career options in the biological sciences.

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## SERVICE

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- 2012 **Petitioner to United States Fish and Wildlife Service:** My collaborative federal petition to protect the Spring Pygmy Sunfish under the Endangered Species Act received a positive rule on 1 October, 2013.
- 2011 **Symposium Co-host:** Joint Meeting of Ichthyologists and Herpetologists, Minneapolis  
Symposium title: "Comparative Phylogeography of the Gulf-Atlantic Coastal Plain"

- Interview: Huntsville Times Newspaper:** “Feds may protect rare sunfish found only in Limestone County's Beaverdam Creek”
- 2009 **Interview: Decatur Daily Newspaper:** “Rock Quarry vs. Pygmy Sunfish”
- 2006 **Conference Co-host:** Southeastern Evolution and Ecology Conference: University of Alabama
- Guest Editor:** Southeastern Naturalist
- Reviewer:** Biological Journal of the Linnean Society  
Behaviour  
Fisheries  
Journal of Cell and Animal Biology  
Southeastern Fishes Council Proceedings  
Biomed Research International

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PAST UNDERGRADUATE MENTEES -11 OF 15 BELONG TO AN UNDERREPRESENTED GROUP IN SCIENCE

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Matthew Bush, MSc student (nursing) – Auburn University Montgomery  
Eduardo Cortez-Garcia, DO student – Philadelphia College of Osteopathic Medicine  
Lauren Evans, MSc student (English) – University of North Carolina Wilmington  
Seth Garrett, MD student – St. George’s University School of Medicine  
Philip Hegji, BSc – Biologist with United States Fish and Wildlife Service  
Danielle Kelly, MSc – U.S. Public Health Service  
Sherry Le, MSc – employed by Baxter Healthcare  
Luis Mestre, sophomore (mathematical bioscience)– University of Puerto Rico  
Jessica Pearson, MD student – St. Jude Children’s Hospital  
John Person, MSc – SCAD Atlanta and Wellstar Health System  
Meganne Rockman, MSc – GIS specialist with Alagasco  
Beth (Gonstad) Stevens, MSc student (neurobiology) – North Carolina State University  
Alicia Waggoner, MD student – University of South Alabama  
Amy Wilson, DMD – Independent dental practice in Morris, AL  
Roberta Wrighten, DVM – Veterinarian with Banfield Pet Hospital

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PROFESSIONAL ORGANIZATIONS AND HONOR SOCIETIES

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American Society of Ichthyologists and Herpetologists  
Society for Free Radical Biology and Medicine  
Faculty of 1000 (associate member)  
Genetics Society of America  
Society of Systematic Biologists  
American Fisheries Society  
Southeastern Fishes Council  
McNair Honor Society  
Golden Key Honor Society