

## Erin M. Myers

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### DEGREES HELD

Ph.D. 2008 Iowa State University. Ecology and Evolutionary Biology.  
Advisors: Drs. Fred Janzen & Dean Adams  
B.A. 2002 Cornell University. Biology.  
*magna cum laude & distinction in all subjects.*  
Advisor: Dr. Kelly Zamudio

### POSITIONS

2009-present Research Assistant Professor: Department of Biology & Biochemistry. University of Houston.  
2009-2011 NSF Bioinformatics Postdoctoral Fellow: Department of Biology & Biochemistry. University of Houston.  
2008- 2009 Postdoctoral Fellow: Department of Biology & Biochemistry. University of Houston.  
2005-08 Teaching Assistant: Department of Ecology, Evolution, and Organismal Biology. Iowa State University.  
Su 2006, 2008 Curator: ISU Herpetology collections  
2004-05 Research Assistant: Graduate College Competitive Fellow, Department of Ecology, Evolution, and Organismal Biology. Iowa State University  
2002-04, S06 Research Assistant: MGET Fellow, Department of Ecology, Evolution, and Organismal Biology. Iowa State University.  
2000-02 Undergraduate Researcher: Department of Ecology and Evolution, Cornell University  
2000, 2001 Researcher: Food and Drug Administration, Center for Biologics Evaluation and Research, National Institutes of Health

### PEER REVIEWED JOURNAL ARTICLES

10. Sethuraman, A., C. H. Chandler, J. L. Christiansen, S. Hayden, A. LeClere, S. E. McGaugh, J. Monson-Miller, E. M. Myers, R. T. Paitz, J. M. Refsnider, T. VanDeWalle, and F. J. Janzen. Nuclear population genetics and molecular phylogeography of Blanding's turtles (*Emydoidea blandingii*) in the Great Plains. (*Conservation Genetics*, in press)

9. Myers, E. M., E. L. Joyce\*, T. Harwell\*, A. Lamb\* and W. A. Frankino. Multi-generation fitness consequences of hybridization in a classic species pair. (Accepted pending revision *PLoS One*; \* undergraduate authors).
8. Freedberg, S. and E. M. Myers 2012. Different rates of mitochondrial and nuclear DNA introgression in a turtle lacking sex chromosomes. *Biological Journal of the Linnaean Society* 106:405-417.
7. Myers, E. M. and W. A. Frankino 2012. Time in a bottle: Reinforcement in a *Drosophila* species pair. *PLoS ONE* 7(2): e31759.
6. Myers, E. M. and D. C. Adams. 2008. Morphology is decoupled from interspecific competition in *Plethodon* salamanders in the Shenandoah Mountains. *Herpetologica* 64:281-289.
5. Myers, E. M., J. K. Tucker, and C. H. Chandler. 2007. Experimental analysis of body size and shape during critical life-history events of hatchling slider turtles, *Trachemys scripta elegans*. *Functional Ecology* 21:1106-1114.
4. Engstrom, T. E., T. Edwards, M. F. Osentoski, E. M. Myers. 2007. Turtle Primer Compendium: A Compendium of PCR Primers for mtDNA, Microsatellite, and other Nuclear Loci for Freshwater Turtles and Tortoises. *Chelonian Research Monographs*. 124-141.
3. Myers, E. M., F. J. Janzen, D. C. Adams, and J. K. Tucker. 2006. Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*). *Evolution*. 60:563-572. (Cover article)
2. Maerz, J. M., E. M. Myers, and D. C. Adams. 2006. Fine scale trophic polymorphism in a terrestrial salamander. *Evolutionary Ecology Research*. 8: 23-35.
1. Myers, E. M., and K. R. Zamudio. 2004. Multiple paternity in an aggregate breeding amphibian: the effect of reproductive skew on estimates of male reproductive success. *Molecular Ecology*. 13: 1951-1963.

#### MANUSCRIPTS IN PROGRESS

1. Myers, E. M., C. Sikes\*, E. L. Joyce\*, and W. A. Frankino. Larval substrate influences wing shape and flight performance. (In preparation for submission to *Biological Journal of the Linnaean Society*; \* undergraduate authors).
2. McGaugh, S. E, T. Mitchell, and E. M. Myers. Heritability of righting of response in slider turtles.
3. Myers, E. M. A phylogenetic assessment of morphological evolution within a radiation of turtles. (In Revision, to be submitted to *Evolution*)
4. Myers, E. M. The concordance of genes, morphology, and geography in three species of aquatic turtle. (In Revision, to be submitted to *Biological Journal of the Linnaean Society*)
5. Myers, E. M. The role of color pattern in mate choice of three species of map turtles (*Graptemys*) and a description of a novel mating behavior (In Revision, to be submitted to *Chelonian Conservation Biology* )
6. Myers, E. M. Environmental and genetic effects on multivariate heritability in species-specific morphological patterns. (In Revision, to be submitted to *Biological Journal of the Linnaean Society*)

## GRANTS

- 2009 Postdoctoral Fellowship in Biology, NSF (\$120,000)  
2005 Doctoral Dissertation Improvement Grants, NSF (\$11,999)  
2004 Women's Enrichment Fund, Iowa State University "Women in the Biological Sciences Symposium" (\$2500 with matching support from departments \$2500)  
2004 William Clark EEB Graduate Student Award (\$500)  
2003 Chelonian Research Foundation, Linneaus Fund (\$2000)  
2003 Iowa State University, Professional Advancement Research Grant (\$180)  
2001 Cornell University (4 grants, \$2400)

## INVITED SEMINARS

- 2013 Department of Biological Science, Fairleigh Dickinson University  
Department of Biological Sciences, University of Scranton  
2010 Department of Biological Sciences, Auburn University

## TEACHING EXPERIENCE

- Spring 09-11 Guest Lecturer (1) in "Evolution" (Biol 3306). University of Houston  
Fall 2008 Guest Lecturer (1) in "Population Biology Seminar". University of Houston  
Spring 2008 Guest Lecturer (4) in "Evolution" (Biol 315). Iowa State University  
Fall 2007 Guest Lecturer (3) in "Vertebrate Biology" (AnEcl 365). Iowa State University  
Spring 2007 Guest Lecturer (1) in "Evolutionary Genetics" (Gen 462). Iowa State University  
2005-08 Teaching Assistant: "Vertebrate Biology" (Biol 365), "Evolution" (Biol 315). Iowa State University.  
2005-2006 Tutor: "Principles of Genetics" (Biol 313), "Evolution" (Biol 315). Iowa State University.  
Spring 2001 Teaching Assistant: "The Vertebrates: Form, Function, and Evolution" (BioEE 274). Department of Ecology and Evolution, Cornell University, Ithaca, NY.

## MENTORING

- Graduate Committees: E. Bakota, University of Houston, Masters thesis topic: Genetics of Morphological Scaling in Flies.  
Undergraduate Fellowships: (3) A. Serna UH-PURS scholar, A. Lamb UH-SURF scholar, C. Sadd UH-PURS scholar  
Undergraduate Senior Capstone Projects: (2) A. Sleem, A. Lamb, University of Houston  
Undergraduates mentored:

Iowa State University (2 students)  
University of Houston (15 students)

#### **HONORS AND AWARDS**

2009 NSF Bioinformatics Postdoctoral Fellow  
2005 Who's Who Among Students, American Universities and Colleges  
2004 Honorable Mention, SSAR Seibert Award, Evolution  
2002 Iowa State University. Graduate College Award.  
2002 Iowa State University. PACE award.  
2002 Iowa State University. MGET fellowship.

#### **PROFESSIONAL SOCIETIES AND MEMBERSHIP**

2004-present American Society of Ichthyologists and Herpetologists  
2003-present Society for the Study of Evolution  
2003-present Society for the Study of Amphibians and Reptiles

#### **SERVICE**

2013 Reviewer for OutTexas Fellowship program  
2006-2007 EEB Graduate Student Organization (GREBE) (Treasurer)  
Co-organized 14<sup>th</sup> Annual Symposium  
2005-2006 EEOB Graduate Student Organization (Treasurer)  
2005 Panelist, Women's Leadership Consortium: Women's enrichment  
mini-grant information session  
2004-present Chair (IA), Cornell Alumni Admissions Ambassador Network  
2004-2005 EEOB Graduate Student Organization (President)  
2004-2005 Search Committee. Department of Ecology, Evolution, and  
Organismal Biology, Iowa State University, Ames, IA.  
2003-2004 Seminar Committee. Department of Ecology, Evolution, and  
Organismal Biology, Iowa State University, Ames, IA.  
2003-2004 Curriculum Committee. Ecology and Evolutionary Biology  
program, Iowa State University, Ames, IA.  
1999-2002 Cornell Herpetological Society (multiple positions)

#### **OUTREACH**

2008 Presentation for the Ames Middle and High School Science  
Olympiad teams  
2007 Presentation for Ames High School AP biology  
2007 St. Cecilia's science fair for elementary school children and families  
2006 Participated in presentation on turtle biology at Thomson  
Causeway Recreation Area  
2005,06 Co-organizer, GREBE Envi-run Earth Day 5k

**REVIEWER OF MANUSCRIPTS FOR**

*Copeia*, *Herpetologica*, *Global Change Biology*, *Ecology*, *Oecologia*, *Journal of Evolutionary Biology*, *Biological Journal of the Linnean Society*, *Ethology*, *Acta Amazonica*, *Behavioral Ecology and Sociobiology*, **KNOWLEDGE PROJECT**

**PRESENTED PAPERS AND SEMINARS**

- 2009 Myers, E. M. and W. A. Frankino. Time in a Bottle: Reinforcement in a *Drosophila* species pair. *Evolution*. Moscow, Idaho. (Poster)
- 2008 Myers, E. M. A comparison of genes, morphology, and geography in a radiation of aquatic turtles. *Evolution*. Minneapolis, Minnesota.
- 2007 Myers, E. M., J. K. Tucker, and C. H. Chandler. Experimental analysis of body size and shape during critical life-history events of hatchling slider turtles, *Trachemys scripta elegans*. *Joint Annual Meeting of the Herpetologist League, and the Society for the Study of Amphibians and Reptiles*, St. Louis, Missouri.
- 2007 Myers, E. M., J. K. Tucker, and C. H. Chandler. Experimental analysis of body size and shape during critical life-history events of hatchling slider turtles, *Trachemys scripta elegans*. *Annual Graduate Research in Evolutionary Biology and Ecology Symposium*, Ames, Iowa.
- 2005 Myers, E. M., F. J. Janzen, D. C. Adams, and J. K. Tucker. Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*). *Evolution*. Fairbanks, Alaska.
- 2004 Myers, E. M., F. J. Janzen, and D. C. Adams. Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*). *Joint Annual Meeting of the Herpetologist League, and the Society for the Study of Amphibians and Reptiles*, Norman, Oklahoma.
- 2004 Maerz, J. M., E. M. Myers, and D. C. Adams. 2004. Between and within habitat patterns of trophic morphology and resource use in red-backed salamanders, *Plethodon cinereus*. *Joint Annual Meeting of the Herpetologist League, and the Society for the Study of Amphibians and Reptiles*, Norman, Oklahoma. (Poster)
- 2004 Myers, E. M., F. J. Janzen, and D. C. Adams. Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*). *Annual Graduate Research in Evolutionary Biology and Ecology Symposium*, Ames, Iowa.
- 2004 Myers, E. M., F. J. Janzen, and D. C. Adams. Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*). *Annual Meeting of the Society of Integrative and Comparative Biology*, New Orleans, Louisiana.
- 2003 Myers, E. M., and K. R. Zamudio. Multiple paternity in an aggregate breeding amphibian: the effect of reproductive skew on estimates of male reproductive success. *Annual Meeting of the Society of Integrative and Comparative Biology*, Toronto, Canada.