

## Erin M. Myers

ADDRESS: Department of Biology & Biochemistry  
University of Houston Fax: 713-743-2636  
321A Science & Research Bldg 2 Cell: 240-441-5421  
Houston, TX 77204 e-mail: [myers.erinm@gmail.com](mailto:myers.erinm@gmail.com)  
<http://www.bchs.uh.edu/~embrunner>

### 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

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. and W. A. Frankino. Time in a bottle: Reinforcement in a *Drosophila* species pair. (Accepted pending revision, *PLoS ONE* **Revision submitted 10/27/2011**)
2. Freedberg, S. and E. M. Myers. Different rates of mitochondrial and nuclear DNA introgression in a turtle lacking sex chromosomes. (In Revision for *Biological Journal of the Linnaean Society*, **Revision to be submitted by 11/30/11**)
3. 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*, to be submitted by 11/30/11; \* undergraduate authors).
4. Myers, E. M. and W. A. Frankino. Multi-generation fitness consequences of hybridization in a classic species pair. (In preparation for submission to *Evolution*, to be submitted by 11/30/11).
5. McGaugh, S. E, T. Mitchell, and E. M. Myers. Heritability of righting of response in slider turtles.
6. 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. In preparation. Nuclear population genetics and molecular phylogeography of Blanding's turtles (*Emydoidea blandingii*) in the Great Plains. (In preparation for submission to *Molecular Ecology*)
7. Myers, E. M. A phylogenetic assessment of morphological evolution within a radiation of turtles. (In Revision, to be submitted to *Evolution*)
8. 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*)
9. 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* )
10. 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**

Pending	The Evolution of Enhanced Species Discrimination in Experimental Sympatry, NSF (requested \$648,954)
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	ASIH Travel Grant (\$200)
2004	William Clark EEB Graduate Student Award (\$500)
2003	Chelonian Research Foundation, Linneaus Fund (\$2000)
2003	Iowa State University, Professional Advancement Research Grant (\$180)
2002- 2007	Iowa State University, Professional Advancement Travel Grant (4 grants ea. ~\$300)
2001	Cornell University, Morley Student Research Grant (\$1500)
2001	Cornell University, Einhorn Discovery Grant (\$500)
2001	Cornell University, Undergraduate Research Program Grant (\$200)
2001	Cornell University, Biology Honors Grant (\$200)

**INVITED SEMINARS**

2010	Department of Biological Sciences, Auburn University
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**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.

**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.

#### **MENTORING**

- Graduate Committee: Masters Student Eric Bakota, University of Houston  
(anticipated defense January 2012)
- Undergraduate Senior Capstone Projects: (2) Amber Sleem, Abigail Lamb,  
University of Houston
- Undergraduates mentored:
  - Iowa State University (2 students)
  - University of Houston (9 students)

#### **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**

- 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*

#### 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.