

CURRICULUM VITAE

Raelynn Deaton

Assistant Professor

Department of Biological Sciences
Sam Houston State University
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Biographical Information

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Education

Ph.D. Zoology, Department of Zoology, University of Oklahoma, Norman, OK, Fall 2006
Major Advisor: Dr. Edie Marsh-Matthews.
Title: Mechanisms of sexual selection in a livebearing fish with a coercive mating system
(Western mosquitofish: *Gambusia affinis*).
M.S. Biology, Department of Biology, University of New Orleans, New Orleans, LA, Spring 2001.
Major Advisor: Dr. Robert C. Cashner.
Title: Effects of predation on substrate choice in the naked goby, *Gobiosoma bosc*.
B.A. Biology, Department of Biology, Berea College, Berea, KY, Spring 1995.

Current and Recent Employment

Assistant Professor, Department of Biological Sciences, Sam Houston State University,
Huntsville, TX. Fall 2008-Present. Chair, Dr. Todd Primm.
Affiliated Research Associate, University of Oklahoma, Department of Zoology, Norman, OK.
Fall 2009-Present. Chair, Dr. William Matthews.
Visiting Assistant Professor, Department of Biological Sciences, Sam Houston State University,
Huntsville, TX. Fall 2007-Spring 2008. Chair, Dr. Jerry Cook.
Adjunct Professor, Department of Biological Sciences, Sam Houston State University,
Huntsville, TX. Fall 2006-Spring 2007. Chair, Dr. Matt Rowe.
Instructor, Department of Zoology, University of Oklahoma, Norman, OK Fall 2006- Present.
Chair, Dr. William Matthews.

Research Interests

Animal Behavior, Evolution, Behavioral and Evolutionary Ecology, Sexual Selection and Mating Systems, Fish Ecology and Conservation, Life History Evolution, Molecular Ecology, Population Genetics, Conservation Genetics, Human Mating Behavior, Evolutionary Psychology

Research Experience

Research Fellow, University of Oklahoma Biological Station, Willis, Oklahoma.

Female control over mating in the western mosquitofish, *G. affinis*. Summer, 2006. Dr. Lawrence Weider, Director.

Research in Molecular Biology and Genetics, University of Oklahoma, Department of Zoology and Oklahoma Biological Survey, Norman, Oklahoma.

Population genetics of isolated populations of the large spring gambusia, *Gambusia geiseri*. Employed use of microsatellite DNA analysis to determine intra- and inter-population variation in *G. geiseri*. Fall 2002 – Present. Dr. Rich Broughton, Supervisor.

Graduate Student Research Assistantship, University of Oklahoma, Sam Noble Oklahoma Museum of Natural History and Department of Zoology, Norman, Oklahoma.

Investigation of life history evolution and ecology of live-bearing fishes. Examined factors influencing matrotrophy (mother-to-embryo transfer of nutrients) in Poeciliid fishes. Fall 2001 – Summer 2004. Dr. Edie Marsh-Matthews, Supervisor.

Ichthyology Research. University of New Orleans Vertebrate Collection. Department of Biological Sciences. New Orleans, Louisiana.

Field collections for the Lake Pontchartrain ichthyofaunal survey. Sampling methods included gill-netting, seining, and trawling. Identified and sorted museum specimens. January 1999 – August 2000. Dr. Robert Cashner, Supervisor.

Cetacean Research Intern. New England Whale Center, Gloucester, Massachusetts.

Collected field behavioral data on cetacean species in the Gulf of Maine. August – December 1995. Mason T. Weinrich, Director.

Peer-Reviewed Publications

*undergraduate and +graduate students in my lab at time of submission

13. **Raelynn Deaton** and James Cureton. Female masculinization and reproductive life history in a population of the western mosquitofish in the Brazos River, TX (*accepted, Environmental Biology of Fishes*).
12. **Raelynn Deaton**. Effect of a parasitic nematode on reproductive life history in female mosquitofish, *Gambusia affinis* (*accepted, The Southwestern Naturalist*)
11. Edie Marsh-Matthews, **Raelynn Deaton**, and Melody Brooks. 2009. Survey of matrotrophy in lecithotrophic species. In *Viviparous Fishes II, the Proceedings of the III International Symposium on Viviparous Fishes* (*in press*, Ed. Mari Carmen Uribe and Harry Grier).
10. James Cureton*, Jason Randall*, and **Raelynn Deaton**. 2009. Density increases male homosexual behavior in the Western Mosquitofish, *Gambusia affinis*. (*in press, The Southwestern Naturalist*).
9. James C. Cureton+, Anna Buchman+, Christopher P. Randle, William I. Lutterschmidt, and **Raelynn Deaton**. 2010. Development and cross-amplification of nine novel *Gambusia geiseri* microsatellite loci in *G. clark-hubbsi* and the endangered *G. nobili*. *Conservation Genetics Resources* DOI 10.1007/s12686-010-9220-7.

8. Cureton, James⁺, Buchman, Anna⁺, Chris Randle, William Lutterschmidt, and **Raelynn Deaton**. 2009. Characterization of ten novel microsatellite loci for the threatened ornate box turtle, *Terrapene ornate*. *Conservation Genetics Resources*. DOI 10.1007/s12686-009-9034-7.
7. Anna Buchman⁺, **Raelynn Deaton**, Chris Randle, Ted Brummel, Everett Wilson, and William Lutterschmidt. 2009. Isolation and characterization of eight polymorphic microsatellite loci for the three-toed box turtle (*Terrapene carolina triunguis*) and cross-amplification in other *Terrapene* species. *Mol Ecol Resources* doi: 10.1111/j.1755-0998.2009.02593.x
6. **Raelynn Deaton**. 2009. Effects of parasites on male mate choice in the western mosquitofish, *G. affinis* *Behavioral Processes* 80:1-6.
5. **Raelynn Deaton**. 2008. Use of microsatellite markers to determine male reproductive success in western mosquitofish, *Gambusia affinis* *Behaviour* 145:795-814.
4. **Raelynn Deaton**. 2008. Factors influencing male mating behavior in a coercive mating system. *J Fish Biol* 72(7): 1607–1615.
3. Edie Marsh-Matthews and **Raelynn Deaton**. 2006. Resources and offspring provisioning: A test of the Trexler & DeAngelis model for matrotrophy evolution. *Ecology* 87(12): 3014–3020.
2. Chad W. Hargrave, Raul Ramirez, Melody Brooks, Michael A. Eggleton, Katherine Sutherland, **Raelynn Deaton**, and Heather Gailbraith. 2006. Species-specific ecosystem effects enhance production of a primary consumer through indirect food web interactions. *Freshwater Biology* 51(10), 1901–1910.
1. Edie Marsh-Matthews, Melody Brooks, **Raelynn Deaton**, and Hui Tan. 2005. Effects of maternal and embryo characteristics on post-fertilization provisioning in fishes of the genus *Gambusia*. *Oecologia* 144 (1): 12-24.

Journals Reviewed For:

Copeia
 Biodiversity and Distributions
 Southeastern Fishes Council Proceedings
 The Southwestern Naturalist
 Herpetologia
 Ethology
 Journal of Parasitology
 Journal of the Linnean Society
 Environmental Biology of Fishes

Grant Reviews:

Sigma Xi Student Grant Reviews, November 2008.

Howard McCarley Student Grant Reviews, Southwestern Association of Naturalists, April 2008.

Research Grants and Fellowships

13. Chad Hargrave, **Raelynn Deaton** and Gary Garrett. 2010. Population dynamic and food web structure of two endangered fish species in west Texas. Texas Parks and Wildlife Department, \$16,000 (contract)
12. **Raelynn Deaton**, Chris Randle, William Lutterschmidt, Michael Janis, and Donald Ruthven. 2009. Conservation of Declining Ornate Box Turtles (*Terrapene ornata ornata*) in Texas: Impacts of Urbanization on Population Genetic Structure and Mortality. Arthur Seeglis Conservation Fund, Dallas-Fort Worth Zoo. \$5,000.
11. **Raelynn Deaton**. 2009. American University of Women Publication Fellowship. \$5,000.
10. **Raelynn Deaton**. 2009. Direct and indirect effects of male coercion on female fitness in a livebearing coercive fish. Faculty Research Grant, Sam Houston State University, \$5,000.
9. Chad Hargrave, **Raelynn Deaton** and Gary Garrett. 2009. Conservation status of Comanche Springs pupfish (*Cyprinodon elegans*) and Pecos gambusia (*Gambusia nobilis*) in the ciénegas of Balmorhea State Park, Texas Section 6 Grant through Texas Parks and Wildlife Department, \$28,482.
8. Chad Hargrave, **Raelynn Deaton** and Gary Garrett. 2008. Population dynamic and food web structure of two endangered fish species in west Texas. Texas Parks and Wildlife Department, \$2,200 (contract)
7. Chad Hargrave and **Raelynn Deaton**. 2008. Influence of local microhabitat characteristics on Fish assemblage structure across water corridors in the Big Thicket National Preserve. Big Thicket ATBI Grant, \$5,200.00.
6. Chris Randall, Sibyl Buchelli, **Raelynn Deaton**, Anne Gaillard, Todd Primm. 2007. Genomics Educational Grant, Beckman Coulter, Inc., Bioresearch Division, *For acquisition of one or more GenomeLab CEQ™ Genetic Analysis System(s)*, Matching Funds, \$102,000.
5. **Raelynn Deaton**. 2006. Research Fellowship, University of Oklahoma Biological Station, Lake Texoma, Willis, Oklahoma. \$2,500.00.
4. **Raelynn Deaton**. 2003-2006. Adam's Memorial Research Scholarship, Department of Zoology, University of Oklahoma, \$5,000.00.
3. **Raelynn Deaton**. 2004 and 2006. McCarley Research Award, Southwestern Association of Naturalists, \$2,000.
2. **Raelynn Deaton**. 2003-2005. Graduate Student Senate Research Award, University of Oklahoma, \$1,200.
1. **Raelynn Deaton**. 2004. Roberrson Research Award, University of Oklahoma Graduate College, \$1,000.00.

Students

Past Graduate Students:

Anna Buchman – M.S. Biology, Summer 2008. Sam Houston State University. Population genetics and potential hybridization between two species of Carolina box turtles (co-advisor, W. Lutterschmidt)

Current Graduate Students:

James Cureton– Conservation genetics and ecology of ornate box turtles.

Rachel Martin– Paternity assurance hypothesis in livebearing fishes.

Rick Lewis– Abiotic and biotic factors influencing male fluctuating asymmetry and sperm quality in isolated spring populations of *Gambusia geiseri*.

Stacy Stoops,– Within and between population variation in gonopodial structure of isolated spring populations of *Gambusia geiseri*.

Janalyn West– Effect of female resistance on male mating success across varying levels of male courtship in livebearing fishes

Chris Kroll-Behavioral ecology of Honduran livebearing fishes

Jessica Sanchez-Predicting community structure using life history parameters of fishes in a small order stream (co-advisor, C. Hargrave)

Graduate Student Committees

Angela Hawkins

Brent Rawles

Edward Tivador

Diana Hernandez

Tyler Saxton

Past Research Experience for Undergraduates (REU) Students

Mallory Wilson, 2010 – Sam Houston State University, Texas

Sarah Sendelbach, 2009 – Sam Houston State University, Texas

Travis Kocurek, 2009 – Sam Houston State University, Texas (co-advised with Dr. Chad Hargrave)

Stephanie (Ivy) McClellan, University of Mary Hardin-Baylor, TX (co-advised with Dr. Chad Hargrave)

Elizabeth Lamb, 2008 - University of Miami

Jacob Landis, 2008 - University of Kansas (co-advised with Dr. Chad Hargrave)

Kevin Hudson, 2007 - Bloomington College, Pennsylvania.

Presentations at Professional Meetings (First-authored only - * undergraduate or + graduate student in my lab at time of presentation)

Raelynn Deaton, James Cureton⁺, Rick Lewis⁺, Rachel Martin⁺, and Stacy Stoops⁺. Effects of black spot disease on male and female mating preferences: do parasitized individuals behave differently?
At: Southwestern Association of Naturalist, Junction, TX, April 2010; Poster.

Raelynn Deaton, Emily Amenta^{*}, and Michi Tobler. Effects of male gonopodial length on male reproductive success in western mosquitofish.
At: Southwestern Association of Naturalist, Junction, TX, April 2010; Poster.

Raelynn Deaton, James Cureton⁺ and Rachel Martin⁺. Male reproductive success in a livebearing fish: a test of the paternity assurance hypothesis.
At: Southwestern Association of Naturalists, Junction, TX, April 2010; Oral.
At: Fourth European Conference for Poeciliid Biologists, St. Andrews, Scotland, June, 2010; Oral.

Raelynn Deaton, Jacob Landis^{*}, James Cureton⁺, Elizabeth Lamb^{*}, Stacy Stoops⁺. Do coercive male mosquitofish care when and where they mate?
At: Southwestern Association of Naturalist, Monterrey Mexico, April, 2009; Oral.

Raelynn Deaton, James Cureton⁺, and Rachel Martin⁺. Sex ratio and density affect male harassment and aggression in the livebearing Mosquitofish, *Gambusia affinis*.

At: Great Plains Limnology Conference and Oklahoma-Texas Aquatics Research Group, Univ. of Oklahoma Biological Station, Willis, TX, September 2008; Poster.

Raelynn Deaton and Stephanie Schweig⁺. Factors influencing female choice in the Western Mosquitofish, *Gambusia affinis*.

At: Southwestern Association of Naturalists, Memphis, TN, April 2008; Poster.

Raelynn Deaton and Jason Randall^{*}. Effects of temperature and male body size on male mating behavior in the Western Mosquitofish, *Gambusia affinis*.

At: Southwestern Association of Naturalists, Memphis, TN, April 2008; Oral.

Raelynn Deaton, Chad W. Hargrave, and Ricky Cothran. Female control over mating in the coercive livebearing fish, *Gambusia affinis*.

At: Southwestern Association of Naturalists, Tarleton State University, Stephenville, TX, April 2007; Oral.

At: Third European Conference for Poeciliid Biologists, Chioggia, Italy, March 2008; Oral.

Raelynn Deaton and Edie Marsh-Matthews. Do big boys always win? Male body size affects reproductive success in a livebearing fish.

At: Behavior and Evolution, University of Oklahoma Biological Station, Willis, Oklahoma, March 2006; Oral.

At: Graduate College Research and Endeavors Poster Symposium, Graduate College, University of Oklahoma, March, 2006; Poster (1st Place, Science).

At: Southwestern Association of Naturalists, Colima, Mexico, April, 2006; Oral (Wilk's Award Winner – Best Student Paper).

Raelynn Deaton, David Lame, Edie Marsh-Matthews, Paulette Reneau, and Rich Broughton. Genetic divergence among isolated populations of the spring-dwelling fish, *Gambusia geiseri*.

At: American Society of Ichthyologists and Herpetologists, Norman, Oklahoma, July 2004; Oral.

At: Oklahoma Texas Aquatics Research Group, Univ. Oklahoma Biological Station, Willis, Oklahoma, October, 2005; Oral.

Raelynn Deaton and Edie Marsh-Matthews. A closer look at the *Gambusia* mating system: Factors influencing male choice.

At: Southwestern Association of Naturalists, Sam Houston State University, Huntsville, Texas, April 2005; Oral.

Raelynn Deaton, Edie Marsh-Matthews, and Melody Brooks. Effects of parasites on mating behavior of the Western Mosquitofish, *Gambusia affinis*.

At: Graduate Student Poster Symposium, Graduate College, University of Oklahoma, April 2003; Poster.

At: Association of Southwestern Naturalists, Norman, Oklahoma, April 2003; Oral.

At: Animal Behavior Society, Boise, Idaho, July 2003; Poster

At: First European Conference for Poeciliid Biologists, Zurich, Switzerland, December 2003; Oral.

At: Southwestern Association of Parasitologists, University of Oklahoma Biological Station, Lake Texoma, Willis, TX; Oral.

Raelynn Deaton, Edie Marsh-Matthews, and Melody Brooks. Effects of food availability on embryo mass and body condition in a livebearing fish.

At: Ecological Society of America, Savannah, Georgia, August 2003; Oral.

Raelynn Deaton, Chad W. Hargrave, Raul Ramirez, Melody Brooks, Michael A. Eggleton, Katherine Sutherland, and Heather Gailbraith. Species-specific ecosystem effects enhance production of a primary consumer through indirect food web interactions.

At: Oklahoma Academy of Sciences, Oklahoma City, Oklahoma, October 2002; Oral.

Raelynn Deaton, Melody Brooks, and Edie Marsh-Matthews. Diet history influences cannibalism and reproductive life history in the Western Mosquitofish, *Gambusia affinis*.

At: Great Plains Limnology Conference, University of Oklahoma Biological Station, September 2002; Oral.

At: Association of Southwestern Naturalists, Norman, Oklahoma, April 2003; Poster.

Raelynn Deaton, Melody Brooks, and Edie Marsh-Matthews. Offspring size variation in the largespring gambusia, *Gambusia geiseri*.

At: Southwestern Association of Naturalists, Cuernavaca, Mexico, April, 2002; Poster.

At: American Society of Ichthyologists and Herpetologists, Kansas City, Kansas, July, 2002; Poster.

Raelynn Deaton. Effects of predation on substrate choice of the Naked Goby, *Gobiosoma bosc*, under field and laboratory conditions.

At: American Society of Ichthyologists and Herpetologists. La Paz, Mexico, June 2000; Oral.

At: Ecology and Evolutionary Ethology of Fishes. Athens, Georgia, May 2000; Oral.

At: Southwestern Association of Naturalists. Denton, Texas, April 2000; Oral.

At: Association of Southeastern Biologists. Chattanooga, Tennessee, April 2000; Poster.

At: University of Houston, Graduate Student Science Symposium. Houston, Texas, April 2000; Poster.

At: Gulf Coast Research Laboratory Graduate Student Symposium, University of Southern Mississippi, February 2000; Poster.

Invited Seminars

Raelynn Deaton. Battle *between* or *within* the sexes? Sexual conflict in coercive livebearing fish.

At: University of Southern Mississippi, Department of Biology, Hattiesburg, MS. January 2010.

At: University of Kentucky, Department of Evolution, Ecology and Behavior, Lexington, KY, Fall 2009.

At: University of Texas, Ecology, Evolution, and Behavior Seminar Series, Austin, TX, Fall 2009.

At: Rice University, Department of Ecology, Evolution, and Behavior, Houston, TX, Fall 2009.
At: Sam Houston State University, Department of Biology, Huntsville, Texas, Fall 2008.
At: University of New Orleans, New Orleans, LA, Fall 2008.

Raelynn Deaton. From cow pastures to lake islands: the ecology, evolution, and behavior of Lake Texoma's cattle egret population.

5. At: Eagle Quest, Texoma West End Association, Gordonville, Texas, November 2006.
[A nonprofit annual event held to educate the general public on the ecology and conservation of Lake Texoma and its inhabitants].

Raelynn Deaton. Tales of a livebearing fish: A closer look at the *Gambusia* mating system.

At: Sam Houston State University, Department of Biology, Huntsville, Texas, Fall 2006 (Job Interview Seminar)

At: Texas A&M, Department of Biology, College Station, Texas, Spring 2006.

At: University of Oklahoma, Department of Zoology, Norman, Oklahoma, Spring 2006 (Dissertation Exit Seminar)

At: Texas State University, Department of Biology, San Marcos, Texas, Spring 2005.

Raelynn Deaton. Sex, parasites, and cannibalism, Oh My! Factors influencing mate choice and reproductive life history in livebearing fishes of the genus *Gambusia*.

At: Berea College, Department of Biology, Berea, Kentucky, Spring 2003

Teaching Experience

Sexual Selection and Genital Evolution (BIO 595). Graduate Level Course. Spring 2010. Sam Houston State University. Department of Biology. Chair, Dr. Todd Primm. *Course developed by R. Deaton (co-taught with S. Bucheli).*

Life History Evolution (BIO 595). Graduate Level Course. Spring 2010. Sam Houston State University. Department of Biology. Chair, Dr. Todd Primm. *Course developed by R. Deaton*

Difficult Dialogues. Intelligent Design, Evolution, Creationism and Science: Exploring the 'Culture War' in 21st Century America. (HON 475). Honor's seminar. Fall 2009. Team-taught. Honor's College, Director, Dr. Gene Young.

Evolution of Mating Systems: A Human Model (BIO 595). Graduate level Course. Spring 2009. Sam Houston State University. Department of Biology. Chair, Dr. Todd Primm. *Course developed by R. Deaton.*

Embryology (BIO 341). Spring 2009. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Conservation Genetics (BIO 595). Graduate Level Course. Fall 2008. Sam Houston State University. Department of Biology. Chair, Dr. Todd Primm. *Course developed by R. Deaton*

Human Anatomy Lecture (BIO 245). Spring 2007 - Present. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Contemporary Biology Lecture (BIO 134). Fall 2006 and Fall 2007. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Contemporary Issues in Biology Online (BIO 1003). Fall 2006 – Fall 2007. University of Oklahoma, Department of Zoology. Chair, Dr. Bill Matthews.

Contemporary Biology Online (BIO 134). Fall 2006 – Summer 2008. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Honor's Integrated Science (HON 162). Spring 2007, Spring 2008. Sam Houston State University, Honor's College, Director, Dr. Gene Young.

Human Biology (BIO 341) and Human Anatomy (BIO 245) Lab Coordinator. Spring 2007 - Present. Sam Houston State University, Department of Biology. Chair, Dr. Jerry Cook.

Human Biology Lecture (BIO 341). Spring 2007, Spring 2008, Summer 2009. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Introductory Zoology Lecture (BIO 162). Fall, 2006. Sam Houston State University, Department of Biology. Chair, Dr. Todd Primm.

Human Mate Choice: An Evolutionary Perspective (ZOO 4970/PSY 4920). August 2006. University of Oklahoma, Summer Intersession. Departments of Zoology and Psychology. Chairs, Dr. Bill Matthews (ZOO) and Dr. George Mendoza (PSY). *Course developed by R. Deaton.*

Introductory Zoology Lecture (ZOO 1114). Fall 2005 – Spring 2006. University of Oklahoma, Department of Zoology. Chair, Dr. Bill Matthews.

Graduate Student Teaching Assistantship. Fall 2004 – Spring 2005. University of Oklahoma, Department of Zoology. Course: Concepts in Biology Lab (Biology Course for Non-majors). Dr. Marielle Hoefnagels, Supervisor.

Human Anatomy Laboratory Instructor. Fall 2000. Lexington Community College, Department of Biological Sciences and Health Technologies. Tammy Liles, Supervisor.

Graduate Teaching Assistant. Fall 1998 – Spring 2000, University of New Orleans, Department of Biological Sciences. Course: Form and Function Lab. Dr. Kathy Burt-Utley, Supervisor.

Graduate Teaching Assistant. Summer 2000. University of New Orleans, Department of Biological Sciences. Course: Biodiversity Lab. Dr. Kathy Burt-Utley, Supervisor.

Honors, Scholarships and Awards

Fellow, American Association of University Women. 2009. \$5,000.

1st Place (Science), OU Graduate Student Research and Endeavors Poster Symposium, Spring 2006.

Wilk's Award (Best Graduate Student Presentation). Southwestern Association of Naturalists. Colima, Mexico, April 2006.

Thompson Award for Teaching Excellence, Department of Zoology, University of Oklahoma, \$500, Spring 2006.

Graduate Student Senate Travel Award, University of Oklahoma, \$600, 2003-2005.

University of Oklahoma Graduate College Travel Award, \$500.00, 2003.

Saunders's Memorial Scholarship, Department of Biology, University of New Orleans, \$500.00, 2001. (Award for Outstanding Graduate Student and Teaching).

Graduate Student Association Travel Award, University of New Orleans, \$600.00, Spring 2000.

Kentucky Colonel's Service Recognition Award, Spring 1998.

Professional Memberships

Association for Environmental Studies and Sciences, Member

Sigma Xi – Full Member

European Poeciliid Biologists, Member

Texas Academy of Sciences, Member

Ecological Society of America, Member

Society for the Study of Animal Behavior, Member

Southwestern Association of Naturalists, Member

Society for the Study of Evolution, Member

American Society of Ichthyologists and Herpetologists, Member

Service, Outreach, and Continuing Education

Sam Houston State University International Studies Program. Volunteer Host for International Exchange Students.

Co-advisor, Tri-Beta, Sam Houston State University, Fall 2008 – Present.

Advisor, Texas Academy of Sciences Sam Houston State Chapter, Spring 2009 – Present.

Section Chair, Vice President, Aquatic Sciences, Texas Academy of Sciences, 2009 and 2010.

Poster Judge, Southwestern Association of Naturalists. April 2007, April 2008.

Display Showcase. Livebearing Fishes of the World. SHSU Department of Biological Sciences, Sam Houston State University. Funds donated by Office of Research and Special Programs, Dr. Jerry Cook, Vice President, Sam Houston State University. Summer 2008 – Present.

Sam Houston State University All-Girl Cheerleading Coach. Fall 2006-Summer 2008.

Research Experience for Undergraduates (REU). Department of Biological Sciences, Sam Houston State University, Huntsville, Texas.

Mentor undergraduates from other universities in biological research. Dr. Diane Neudorf and Dr. Bill Lutterschmidt, Directors. Summers 2007 and 2008.

Scientist, Summer Institute for Mid-Level Science Teachers. Sam Noble Oklahoma Museum of Natural History, Norman, Oklahoma.

Conducted scientific investigations with elementary and junior high teachers. Led teachers through scientific experiments to promote scientific inquiry a better understanding of the process of science. Summer 2004 and 2005. Dr. Wendy Gram, Head of Education, Sam Noble Oklahoma Museum of Natural History.

United States Peace Corps Volunteer. Papua New Guinea, South Pacific.

Established a university extension center assisting students in attaining high school equivalency. Taught math and English via correspondence for grades 10, 11, and 12. Developed curriculum for and taught grades 7 and 8 math in a provincial high school. April 1996 – September 1997.

AmeriCorps Volunteer. Housing Counselor. Berea, Kentucky.

Aided low-income families in Eastern and Southeastern Kentucky in the process of home ownership. Explained legal documents and mortgage process to families. Worked with attorneys and held loan closing for clients. Engaged in various service projects across Kentucky with other AmeriCorps members. October 1997 - July 1998.

References

Dr. Richard Broughton
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Department of Zoology
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Dr. Robert Cashner
Dean of Graduate College *and*
Vice Chancellor of Research
AD 205
University of New Orleans
New Orleans, Louisiana 70148
(504) 280 – 6319
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Dr. Edie Marsh-Matthews
Associate Professor of Zoology
Department of Zoology *and*
Curator of Ichthyology
Sam Noble Museum of Natural History
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Dr. Matthew Rowe
Professor of Biology
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