

## CAITLIN RATHIE GABOR

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### EDUCATION

Postdoctoral **University of Texas, Austin** 1997-1999  
Research Advisor: Dr. Michael J. Ryan  
Ph.D. **University of Louisiana, Lafayette** (formerly USL) 1997  
Environmental and Evolutionary Ecology  
BEHAVIORAL AND GENETIC VARIATION IN SALAMANDRIDAE AND POECILIIDAE:  
IMPLICATIONS FOR MATE CHOICE AND KIN RECOGNITION  
Advisor: Dr. Robert G. Jaeger  
M.S. **University of Louisiana, Lafayette** (formerly USL) 1993  
Biology  
THE EFFECTS OF PREY TYPE ON TERRITORIAL QUALITY OF *PLETHODON CINEREUS*  
Advisor: Dr. Robert G. Jaeger  
B.A. **University of California, Santa Barbara** 1990  
Aquatic Biology (*Honors*)  
**Tufts University** 1986-1988  
**West Indies Laboratory** (Fairleigh Dickinson Univ.); Marine Biology Fall 1988

### ACADEMIC POSITIONS

Professor of Biology, **Texas State University** 2012-present  
Associate Professor of Biology, **Texas State University** 2005-2012  
(Note: I was on 50% maternity leave spring 2007)  
Assistant Professor of Biology, **Texas State University** (formerly SWT) 2000-2005  
Lecturer/Postdoctoral Research Assoc., **University of Texas, Austin** 1999-2000

### RESEARCH INTERESTS

I study the historical forces of natural and sexual selection on speciation in the unisexual-bisexual species complex of live bearing fish from a behavioral and physiological standpoint. I am also interested in predator-prey dynamics in aquatic systems.

### PUBLICATIONS

1. DR Davis & CR Gabor. *In press*. Behavioral and physiological antipredator responses of the San Marcos salamander, *Eurycea nana*. *Physiology and Behavior*
2. CA Blake, L Alberici da Barbiano, JE Guenther & CR Gabor. 2014. Recognition and response to native and novel predators in the Largespring mosquitofish, *Gambusia geiseri*. *Ethology online* DOI: 10.1111/eth.12331
3. A Reedy, A Edwards, C Pendlebury, L. Murdaugh, R. Avery, J. Seidenberg, A Aspbury, C Gabor. 2014. An acute increase in the stress hormone, corticosterone is associated with mating behavior in both male and female red-spotted newts, *Notophthalmus viridescens*. *General and Comparative physiology* 208:57-63.

4. D. Kim, J. Waller, AS Aspbury, **CR Gabor**. 2014. Mating preferences of the gynogenetic Amazon molly differ between populations sympatric with different host species. *Ethology* 120:1053-1061.
5. C Blake & CR Gabor. 2014. Effect of prey personality depends on predator species. *Behavioral Ecology* 25: 871-877.
6. Muraco, JJ, AS Aspbury, **CR Gabor**. 2014. Does male behavioral type correlate with species recognition and stress hormones in a unisexual-bisexual mating complex? *Behavioral Ecology* 25: 200-205. doi: 10.1093/beheco/art106
7. Alberici da Barbiano, L., \*R Robinson, M Tobler, A Aspbury & **C. R. Gabor**. 2014. Differences in resource assimilation between the unisexual Amazon molly, *Poecilia formosa* (Poeciliidae) and its sexual host (*Poecilia latipinna*). *Environmental Biology of Fishes* 97:875-880.
8. Alberici da Barbiano, L., Z. Gompert, A.S. Aspbury, **CR Gabor** & C.C. Nice. 2013. Population genomics reveals a possible history of backcrossing and recombination in the gynogenetic fish *Poecilia formosa*. *PNAS* 110: 13797-13802.
  - San Marcos Record: <http://www.sanmarcosrecord.com/content/txst-researchers-uncover-genetic-diversity-clonal-fish>
9. **Gabor, CR**, A.S. Aspbury & R. L. Rodríguez. 2013. Geographic variation in behaviour: An introduction. *Evolutionary Ecology Research* 15:601-604.
10. **Gabor, CR**, L. Alberici da Barbiano & A.S. Aspbury. 2013. Geographic variation in male mate choice in a gynogenetic species complex: evaluating long-term data across mating contexts. *Evolutionary Ecology Research* 15:653-666
11. \*DeSantis, D.L., D.R. Davis & **C. R. Gabor**. 2013. Chemically mediated predator avoidance in the Barton Springs salamander. *Herpetologica* 69:291-297.
12. **Gabor, C. R.**, J. Bosch, J. Fries & D. Davis. 2013 A non-invasive water-borne hormone assay for amphibians. *Amphibia-Reptilia* 34:151-162.
13. **Gabor, C. R.**, M. Fisher, J. Bosch. 2013. A non-invasive stress assay shows that tadpole populations infected with *Batrachochytrium dendrobatidis* have elevated corticosterone levels. [PLOSone 8, e56054](#)
14. Alberici da Barbiano, L., \*L. Rangel, A.S. Aspbury & **C. R. Gabor**. 2012. Male permissiveness in a unisexual-bisexual mating complex promotes maintenance of a vertebrate unisexual sperm-dependent species. *Behaviour* 149:869-879.
15. Davis, D., K. Epp & **C. R. Gabor**. 2012. Predator generalization decreases the effect of introduced predators in the San Marcos salamander, *Eurycea nana*. *Ethology* 118:119-1197.
16. Swanbrow Becker, L. & **C. R. Gabor**. 2012. Effects of turbidity and visual versus chemical cues on anti-predator response in the endangered fountain darter (*Etheostoma fonticola*). *Ethology* 118:994-1000.
17. Sandkam, B., J.B. Joy, C.T. Watson, \*P. Gonzalez-Bendiksen, **C. R. Gabor** & F. Breden. 2012. Hybridization leads to sensory repertoire expansion in a gynogenetic fish, the Amazon molly (*Poecilia formosa*): a test of the hybrid-sensory expansion hypothesis. *Evolution*. 67:120-130.
18. **Gabor, C. R.** & \*A. Contreras. 2012. Measuring water-borne cortisol in sailfin mollies: is the process stressful, can stress levels be minimized and is cortisol correlated with sex steroids? *Journal of Fish Biology* 81:1327-1339

19. **Gabor, C. R.**, A.S. Aspbury, J. Ma & C. Nice. 2012. The role of androgens in sperm production and species recognition in Atlantic mollies (*Poecilia mexicana*). *Physiology & Behavior*. 105:885-892.
20. Swanbrow Becker, L., A. S. Aspbury & **C. R. Gabor**. 2012. Body size dependent male sexual behavior in a natural population of sailfin mollies (*Poecilia latipinna*). *American Midland Naturalist* 167:366-372.
21. Robinson, D., \*T. Konkin-Garcia, \*C. M. Espinedo, **C. R. Gabor** & A. Aspbury. 2011. Seasonal effects on female fecundity and male sperm availability in a thermal stable temperate population of sailfin mollies (*Poecilia latipinna*). *American Midland Naturalist*. 166:394-403
22. **Gabor, C. R.**, \*M. Parmley, & A. S. Aspbury. 2011. Repeatability of female preferences in a unisexual-bisexual mating system. *Evolutionary Ecology Research* 13:145-157.
23. Alberici da Barbiano, L., A. S. Aspbury, C. Nice, **C. R. Gabor**. 2011. The impact of social context on male mate preference in a unisexual-bisexual mating complex. *Journal of Fish Biology* 79:194-204.
24. Alberici da Barbiano, L., J. Waller, & **C. R. Gabor**. 2010. Differences in competitive efficiency between a sexual parasite and its host may explain the maintenance of a sperm-dependent vertebrate species. *Journal of Freshwater Ecology* 25:523-530.
25. Thaker, M., JN Fries, KJ Epp, & **C. R. Gabor**. 2010. Cohabitation patterns of the San Marcos salamander (*Eurycea nana*). *Amphibia-Reptilia* 31:503-508.
26. **Gabor, C. R.** & M. S. Grober. 2010. The role of male and female androgen in species recognition in a unisexual-bisexual mating complex. *Hormones and Behavior* 57:427-433.
27. **Gabor, C. R.**, Gonzalez, R., \*Parmley, M. & Aspbury, A. S. 2010. Variation in male sailfin molly preference for female size: Does sympatry with sexual parasites drive preference for smaller conspecifics? *Behavioral Ecology and Sociobiology* 64: 783-792
28. Espinedo, C., **C. R. Gabor**, & Aspbury, A. S. 2010. Males, but not females, contribute to sexual isolation between two sympatric species of *Gambusia*. *Evolutionary Ecology* 24:865-878.
29. Epp, K. J., R. Gonzales & **C. R. Gabor**. 2010. The role of water-borne chemical cues in mediating social interactions of the Texas blind salamander, *Eurycea rathbuni*. *Amphibia-Reptilia* 31: 294-298
30. Aspbury, A. S., J. M Coyle, & **C. R. Gabor**. 2010. Effect of predation on male mating behavior in a unisexual-bisexual mating system. *Behaviour* 147:53-63.
31. Aspbury, A. S., C. Espinedo, & **C. R. Gabor**. 2010. Lack of species discrimination based on chemical cues by male sailfin mollies, *Poecilia latipinna*. *Evolutionary Ecology* 24:69-82.
32. Lucas, L. K., Fries, J. N., **Gabor, C. R.**, & Nice, C. C. 2009. Genetic variation and structure in *Eurycea nana*, a federally threatened salamander endemic to the San Marcos Springs. *Journal of Herpetology* 43:220-227.
33. **Gabor, C. R.**, & A. S. Aspbury. 2008. Non-repeatable mate choice by male sailfin mollies, *Poecilia latipinna*, in a unisexual-bisexual mating complex. *Behavioral Ecology* 19: 871-878.
34. Epp, K. J. & **C. R. Gabor**. 2008. Innate and learned predator avoidance mediated by chemical cues in *Eurycea nana*. *Ethology* 114:607-615.

35. Robinson, D.M., A. S. Aspbury, & **C. R. Gabor**. 2008. Differential sperm expenditure by male sailfin mollies, *Poecilia latipinna*, in a unisexual-bisexual species complex and the influence of spermiation during mating. *Behavioral Ecology and Sociobiology* 62:705-711.
36. Thaker, M., **C. R. Gabor**, & J. N. Fries. 2006. Sensory cues and association in San Marcos salamanders. *Herpetologica* 62:151-155.
37. Gumm, J. M., \*R. Gonzalez, A. S. Aspbury & **C. R. Gabor**. 2006. Do I know you? Species recognition in a unisexual-bisexual species complex of mollies. *Ethology* 112:448-457.
38. Gumm, J. M., & **C. R. Gabor**. 2005. Asexuals looking for sex: Conflict between species and mate-quality recognition in sailfin mollies. *Behavioral Ecology and Sociobiology* 58: 558-565.
39. **Gabor, C. R.**, M. J. Ryan, & D. C. Morizot. 2005. Character displacement in sailfin mollies, *Poecilia latipinna*: allozymes, behavior, and morphology. *Environmental Biology of Fishes* 73: 75-88.
40. Aspbury, A. S., & **C. R. Gabor**. 2004. Discriminating males alter sperm production between species. *Proceedings of the National Academy of Sciences* 101:15970-15973.  
(FEATURED IN SCIENCE NOW, SCIENCE MAGAZINE'S ONLINE NEWS SERVICE 11/04; CBC RADIO QUIRKS AND QUARKS, 11/04; PNAS ARTICLE HIGHLIGHTS, 11/04; NATURAL HISTORY MAGAZINE 3/05; WISSENSCHAFT ONLINE, 11/04; LE SCIENZE ONLINE, 11/04)
41. **Gabor, C. R.**, & C. C. Nice. 2004. Genetic variation among populations of Eastern Newts, *Notophthalmus viridescens*: A preliminary analysis based on allozymes. *Herpetologica* 60:373-386.
42. Aspbury, A. S. & **C. R. Gabor**. 2004. Differential sperm priming by male sailfin mollies: Effects of female and male size. *Ethology* 110: 193-202.
43. **Gabor, C. R.**, & R. Page\*. 2003. Female preference for large males in sailfin mollies, *Poecilia latipinna*: the importance of predation pressures and reproductive status. *Acta Ethologica* 6:7-12.
44. **Gabor, C. R.** & M. J. Ryan. 2001. Geographical variation in reproductive character displacement in mate choice by male sailfin mollies. *Proceedings of the Royal Society of London: Series B, Biological Sciences* 268:1063-1070.
45. **Gabor, C. R.**, J. Krenz, & R. Jaeger. 2000. Female choice, male interference, and sperm precedence in the red-spotted newt. *Behavioral Ecology* 11:115-124.
46. **Gabor, C. R.** & R. G. Jaeger. 1999. When salamanders misrepresent threat signals. *Copeia* 1999:1123-1126.
47. **Gabor, C. R.** 1999. Association patterns of sailfin mollies (*Poecilia latipinna*): alternative hypotheses. *Behavioral Ecology and Sociobiology* 46:333-340.
  - <http://www.iflscience.com/brain/sciences-worst-proofreading-error>
  - <http://www.nature.com/news/unusual-reference-attracts-notoriety-1.16364>
48. Jaeger, R. G., **C. R. Gabor**, & H. M. Wilbur. 1998. An assemblage of salamanders in the southern Appalachian mountains: competitive and predatory behavior. *Behaviour* 135: 795-821
49. **Gabor, C. R.** & T. R. Halliday. 1997. Sequential mate choice by smooth newts: females become more choosy. *Behavioral Ecology* 8:162-166.

(FEATURED IN: *BBC Wildlife* 1997. Crestfallen newts. (15, no 12, 59))

50. **Gabor, C. R.** 1996. Differential kin discrimination by red-spotted newts (*Notophthalmus viridescens*) and smooth newts (*Triturus v. vulgaris*). *Ethology* 102:649-659.

FEATURED IN: *Nature Australia* 1998. Newtritious eggs? (25, no 12, 14-15); *BBC Wildlife* 1997. Kin recognition. (15, no 2, 18))

51. **Gabor, C. R.** 1995. Correlational test of Mathis' hypothesis that bigger salamanders have better territories. *Copeia* 1995:729-735.
52. **Gabor, C. R.** & R. G. Jaeger. 1995. Resource quality affects the agonistic behaviour of territorial salamanders. *Animal Behaviour* 49:71-79.
53. Jaeger, R. G. & **C. R. Gabor**. 1993. Intraspecific chemical communication by a territorial salamander via the post-cloacal gland. *Copeia* 1993:1171-1174.

\*Undergraduate researcher

#### BOOK CHAPTER

**Gabor, C. R.** 2010 Agonistic Signals. In: Breed M.D. and Moore J., (eds.) *Encyclopedia of Animal Behavior*, Vol. 1, pp. 35-39 Oxford: Academic Press.

#### PAPERS IN REVIEW

LJ Swanbrow Becker, CR Gabor, KG Ostrand, & EM Brooks. *In review*. Turbidity impairs foraging behavior in the endangered fountain darter (*Etheostoma fonticola*). *American Midland Naturalist*.

#### NON-PEER REVIEWED ARTICLES AND LABORATORY GUIDES

**C. R. Gabor**, M. Fisher & J. Bosch. 2013. A non-invasive stress assay shows that tadpole populations infected with *Batrachochytrium dendrobatidis* have elevated corticosterone levels. *Froglog* 21:84.

**C. R. Gabor** & C. Blake. 2012. Predator-prey interactions in fish and salamanders: a conservation perspective. *The Conservation Behaviorist* 10: 2-3.

Southwest Airlines' Spirit magazine June 2011. 40% of Americans believe their pets have a sixth sense. **C. R. Gabor** Invited Quote

*Organismal Biology Laboratory Exercises* (12 labs) edited by A. Aspbury & **C. R. Gabor** 2007-2012

*Organismal Biology Laboratory Exercises* edited by **C. R. Gabor** and A. Aspbury, 2006-2007

*Organismal Biology Laboratory Exercises* (12 labs) edited by **C. R. Gabor** 2000, 2001, 2002, 2003, 2004. 2006

*Functional Biology Laboratory Exercises* (12 labs) edited by C. Pesthy & **C. R. Gabor** 2006-2010

*Functional Biology Laboratory Exercises* (12 labs) edited by **C. R. Gabor** 2000, 2001, 2002, 2003, 2004, 2005

*Functional Biology Laboratory Exercises* (12 labs) edited by C. Pesthy, A. Bosworth & **C. R. Gabor** 2009.

Jaeger, R. G. & **C. R. Gabor**. 1999. Salamander social behavior. *Reptiles* 7: 32-47.

**GRANTS RECEIVED**

<b>USGS ARMI</b> , 2014 with PI Dr. Susan Walls (USGS) Using a novel ecophysiological tool to evaluate the conservation status of imperiled populations in species distribution models	\$317,927
<b>USFWS State Wildlife Grant Program</b> , 2013 The effects of urbanization on physiological stress of Jollyville Plateau salamanders, <i>Eurycea tonkawae</i>	\$32,716
<b>Barton Springs Salamander Conservation Grant</b> , 2013 The effect of captive rearing on stress and reproductive hormones in <i>Eurycea sosorum</i> .	\$9,349
<b>NSF – GRFP</b> with Chelsea Blake, 2013	\$132,000
<b>NSF - REU Supplement</b> with Drs. Aspbury, Nice, 2013	\$6,000
<b>NSF - REU Supplement</b> with Drs. Aspbury, Nice, 2012	\$6,000
<b>NSF - REU Supplement</b> with Drs. Aspbury, Nice, 2011	\$6,000
<b>NSF - IOS</b> , with Drs. Nice & Aspbury, 2010-2013+1 yr ext The maintenance of unisexuality: Behavior, hormones, and genetic diversity in a unisexual-bisexual mating complex. Grant # 1021873	\$350,000
<b>Faculty Research Enhancement Grant</b> , 2008 Hormonal basis to mate choice behavior in a unisexual-bisexual mating system	\$8,000
<b>NSF - REU Supplement</b> with Dr. Aspbury 2006	\$6,000
<b>NSF - RET Supplement</b> with Dr. Aspbury 2005 Supplemental grant for High School Teachers – Marty Wise	\$5,890
<b>NSF -DIB</b> , Animal Behavior with Dr. Aspbury, 2004 - 2007 +1yr ext Species Recognition versus Mate Quality Recognition by Sailfin Molly Males: Asexuals looking for sperm. Grant # 0415808	\$299,497
<b>Faculty Research Enhancement Grant</b> , 2004 Differential Sperm Allocation by Male Sailfin Mollies	\$7,982
<b>Texas Higher Education Coordinating Board (THECB)</b> , 2003 Supplemental grant for High School Teachers – Matt Holmes	\$8,100
<b>THECB</b> , 2002 Supplemental grant for High School Teachers – Matt Holmes	\$8,100
<b>THECB, Advanced Research Program</b> , 2001-2004 "Species recognition versus mate quality recognition by sailfin molly males". Grant # 003615-0004-2001	\$78,895
<b>U.S. Department of the Interior, Fish and Wildlife Service</b> , 2001-2004 Cooperative Agreement #1448-20181-01-J824 Project Officer Joe Fries "Behavioral Aspects for reproduction in San Marcos salamanders"	\$25,000
<b>Faculty Research Enhancement Grant</b> , 2001 "Testing pre-existing bias theory: female mate choice for novel male traits"	\$7,000
<b>NSF</b> Postdoctoral Research Fellowship, 1997-99 "Evaluation of reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of livebearing fish (Poeciliidae)"	\$80,000
<b>Sigma Xi</b> , The Scientific Research Society, 1996 "Female mate choice in salamanders: the interaction of previous experience with males and male-male competition"	\$500
<b>Louisiana Board of Regents</b> Doctoral Fellowship, 1993-97	\$64,000
<b>Graduate Student Organization</b> , Univ. of Southwestern Louisiana, 1991-96	\$2800
<b>Sigma Xi</b> , The Scientific Research Society, 1993	\$390

"The effects of operational sex ratio on male mating strategies"

**Walton Scholarship**, Mountain Lake Biol. Station, Univ. of Virginia, 1992 \$1000

#### COOPERATIVE GRANT

**U.S. Department of the Interior, Fish and Wildlife Service**, 2004-2007 \$25,000

This grant funds the research of Lauren Lucas, a MS student coadvised by myself and Dr. Chris Nice via with the Project officer Joe Fries "Genetics of San Marcos salamanders produced in captivity" agreement # FWS 1448-21230-5-K001

#### GRANT IN KIND

**City of Austin, Watershed Protection**, 2013 \$1300

Funding to examine stress in *Eurycea tonkawae*

**City of Austin, Watershed Protection**, 2012 \$1300

Funding to examine stress in *Eurycea tonkawae*

**U.S. Department of the Interior, Fish and Wildlife Service**, 2013 \$2000

Funding to examine stress hormones in *Eurycea nana*

**U.S. Department of the Interior, Fish and Wildlife Service**, 2012 \$1300

Funding to examine stress hormones in *Etheostoma fonticola*

**U.S. Department of the Interior, Fish and Wildlife Service**, 2011 \$1300

Funding to examine stress and reproductive hormones in *Eurycea nana*

### PROPOSAL SUBMITTED

### AWARDS AND HONORS

Internal Globalization award, Texas State University 2014

Balassi Institute Scholarship, Hungary 2014

Fulbright Specialist, 2013

Favorite Professor, Alpha Chi 2012

Dean's nominee for Presidential Award for Excellence in Scholarly/Creative Activities 2009, 2014

Presidential Award for Excellence in Scholarly/Creative Activities 2005

Runner up for the College of Science Presidential Award for Excellence in Scholarly/Creative Activities 2004

Elected to Associate Membership in Sigma Xi, The Scientific Research Society. 1995

### RESEARCH EXPERIENCE

VISITING SCIENTIST, James Madison University, Harrisonburg, VA. Spring 1997

VISITING RESEARCH FELLOW, The Open University, Milton Keynes, England. Spring 1994

VOLUNTEER RESEARCH TECHNICIAN, distribution and behavior of *Hemisquilla ensigera*, Dr. Jack Engle (U.C.S.B.). Spring 1990

RESEARCH TECHNICIAN (R.E.U.), courtship behavior of *Thalassima bifasciatum*, Dr. Robert Warner (U.C.S.B.). Summer 1989

VOLUNTEER RESEARCH ASSISTANT, territoriality of *Acanthemblamarina*, Dr. Ray Clarke (Sarah Lawrence University), West Indies Lab. Summer 1989

## PRESENTATIONS AT SCIENTIFIC MEETINGS

### 2014

- D Kim, A Aspbury, C Gabor. Effect of competitors on male mate choice: Proximate regulation by cortisol and 11-ketotestosterone. International Society of Behavioral Ecology
- K Zabierek, C Gabor. Effects of turbidity on the antipredator response of the Barton Springs salamander to predator cues. International Society of Behavioral Ecology
- S Nagy, **C Gabor**. Personality-driven dispersal in a unisexual-bisexual mating complex. International Society of Behavioral Ecology
- DL DeSantis, **CR Gabor**, DR Davis. Invertebrate predator recognition and avoidance in the endangered Barton Springs salamander, *Eurycea sosorum* Texas Academy of Sciences
- A Reedy, A Edwards, C Pendlebury, L. Murdaugh, R. Avery, J. Seidenberg, A Aspbury, **CR Gabor\***. Male and female newts increase corticosterone during amplexus. Section of Integrative Biology
- A Hanninen\*, Thomason, C.B., **Gabor, C.R.**, Altizer, S. Breeding behavior is associated with sex-biased parasitism in the red-spotted newt. Section of Integrative Biology
- N Bendik\*, Davis, DR; Zabierek, K; Gabor, CR. The effects of urbanization on physiological stress of Jollyville Plateau salamanders, *Eurycea tonkawae*. Section of Integrative Biology

### 2013

- Blake, C.\*, Alberici Da Barbiano, L., Guenther, J. & **CR Gabor**. Predator recognition and response to novel and native predators. Texas Poeciliid Conference
- Kim, D, Aspbury, A., & **CR Gabor**. Effect of social competition on male mate choice in a unisexual-bisexual species complex. Texas Poeciliid Conference
- Reyes, J, Kim, Y., & **CR Gabor**. Is the total, conjugated or free portion of 11 ketotestosterone associated with male sailfin molly mating behavior? Texas Poeciliid Conference
- L. Alberici Da Barbiano, K Cunningham, & **CR Gabor**, Behavioral and stress response to predators in a unisexual bisexual system. Texas Poeciliid Conference
- C.R. Gabor**, J. Bosch & M. Fisher. Elevated stress levels in Common and Mallorcan midwife toads infected with *Batrachochytrium dendrobatidi*. European Congress of Herpetology.
- S. DeColo & **C.R. Gabor**. Effects of turbidity on male preference for size in fountain darters, *Etheostoma fonticola*. Animal Behavior society conference
- L. Alberici Da Barbiano, K Cunningham, & **C.R. Gabor**. Behavioral and stress response to predators in a unisexual-bisexual system. Animal Behavior society conference
- D S. Kim, A S. Aspbury & **C.R. Gabor**. Effect of social competition on male mate choice in a unisexual-bisexual species complex. Animal Behavior Society Conference
- C Blake & **C.R. Gabor**. Boldness and Body Shape in the Largespring Mosquitofish (*Gambusia geiseri*). Animal Behavior Society Conference



- A S. Aspbury, D Kim, J Waller, **C.R. Gabor**. Female preference for familiarity vs. LPA by gynogens in a unisexual-bisexual mating complex Animal Behavior Society Conference.
- L. Alberici Da Barbiano, **C.R. Gabor**, & K Cunningham, Behavioral and stress response to predators in mollies. Undergraduate Symposium, Texas State University.
- L. Alberici Da Barbiano, **C.R. Gabor**, & K Cunningham, Behavioral and stress response to predators in mollies. UT-Austin Center for Brain Behavior and Evolution symposium

## 2012

- CR Gabor** & A. Aspbury. Geographic variation in mate choice in a unisexual-bisexual species complex: are populations consistent? International Poeciliid Conference
- C. K. Blake & **CR Gabor**. Predator effects on suites of correlated behaviors in *Gambusia geiseri*. Animal Behavior Society
- A. Aspbury, L. Alberici da Barbiano, L. Rangel & **CR Gabor**. Male permissiveness in a unisexual-bisexual mating complex. Animal Behavior Society
- S. DeColo & **CR Gabor** Effects of turbidity on female preference for larger males in fountain darters, *Etheostoma fonticola*. Animal Behavior Society
- DR Davis & **CR Gabor**. Stress response of the salamander, *Eurycea nana*, to native and introduced predators. Animal Behavior Society
- DL DeSantis, DR Davis, & **CR Gabor** Chemically mediated predator recognition in the Barton Springs salamander. Animal Behavior Society
- DR Davis & **CR Gabor** Stress response of the San Marcos salamander *Eurycea nana*, to native and introduced predators. *EuryceAlliance*
- CR Gabor**, M. Fisher, J. Bosch A non-invasive stress assay shows that diseased tadpole populations have elevated corticosterone. *EuryceAlliance*
- DL DeSantis, DR Davis, & **CR Gabor** Chemically mediated predator avoidance in the Barton Springs salamander, *Eurycea sosorum*. *EuryceAlliance*
- L. Alberici da Barbiano Z. Gompert, A. Buerkle, A. Aspbury, & **C. Gabor**, C. Nice. Phylogeography of a unisexual-bisexual mating complex: a population genomics approach. Texas Poeciliid Conference
- L. Alberici da Barbiano, R. Robinson\*, M. Tobler, A. Aspbury, **C. Gabor** Differences in resource assimilation between a sperm-dependent unisexual species and its sexual host. Texas Poeciliid Conference
- L. Alberici da Barbiano, K. Pena\*, A. Aspbury, & **C. Gabor**. Effects of heterospecific encounters on stress hormone levels in a unisexual-bisexual mating complex. Texas Poeciliid Conference
- C. R. Gabor**, A. Aspbury, & C. Nice. The role of androgens in species recognition and sperm production in Atlantic mollies (*Poecilia mexicana*). Texas Poeciliid Conference
- A. Contreras\* & C. Gabor. Measuring water-borne cortisol in sailfin mollies: is the process stressful and can stress levels be minimized? Texas Poeciliid Conference
- C. Blake & **C. Gabor** Invasive predators select for boldness in native prey populations. Texas Poeciliid Conference
- J. Muraco, A. Aspbury, & **C. Gabor**. Male behavioral type and its correlates with species recognition and hormone production in a unisexual-bisexual mating complex. Texas Poeciliid Conference

- DL DeSantis, DR Davis, & **CR Gabor** Predator recognition in the Barton Springs salamander, *Eurycea sosorum*. Texas Academy of Sciences
- DR Davis & **CR Gabor** Differential corticosterone response towards native and introduced predators by the San Marcos salamander, *Eurycea nana*. Texas Academy of Sciences

## 2011

- DL DeSantis, DR Davis, & **CR Gabor**. Predator recognition and response of the Barton Springs salamander, *Eurycea sosorum*. Texas State Undergraduate Research Conference.
- A. Contreras. & **CR Gabor**. Measuring water-borne cortisol in sailfin mollies: is the process stressful and can it be minimized? Texas State Undergraduate Research.
- ‡DR. Davis & **CR. Gabor**. Differential corticosterone response towards native and introduced predators by the San Marcos salamander, *Eurycea nana*. Texas Herpetologist Society
- \*DL. DeSantis, ‡DR. Davis, & **CR. Gabor**. Predator recognition and response of the Barton Springs salamander, *Eurycea sosorum*. Texas Herpetologist Society
- ‡L. Swanbrow & **CR Gabor**. Effects of turbidity and visual versus chemical cues on predator avoidance in the fountain darter. Aquifer optimization - technical advisory work group
- JJ. Muraco, CR Gabor & A. Aspbury Differences in behavioral type among females of a unisexual-bisexual mating complex. ANIMAL BEHAVIOR SOCIETY CONFERENCE.
- CR Gabor & A. Aspbury. Geographic variation in mate choice in a unisexual-bisexual complex: are populations consistent?. ANIMAL BEHAVIOR SOCIETY CONFERENCE.
- A. Contreras. & **CR Gabor**. Measuring water-borne cortisol in sailfin mollies: is the process stressful and can it be minimized? ANIMAL BEHAVIOR SOCIETY CONFERENCE.
- D. Davis & **CR Gabor**. Generalization of introduced predators by a threatened salamander. ANIMAL BEHAVIOR SOCIETY CONFERENCE
- L. Swanbrow & **CR Gabor**. Effects of turbidity and visual versus chemical cues on predator avoidance in the fountain darter. ANIMAL BEHAVIOR SOCIETY CONFERENCE
- L. Alberici da Barbiano, C. Nice, AS Aspbury, **CR Gabor**. The impact of social context on male mate preference in a unisexual-bisexual mating complex. ANIMAL BEHAVIOR SOCIETY CONFERENCE
- L. Alberici da Barbiano, Z. Gompert\*, A. Buerkle\*, C. Gabor, A. Aspbury, C. Nice Phylogeography of a Unisexual-bisexual Mating System. JMIH Conference
- Gabor, CR**. Stress in *Eurycea nana*. EuryceAlliance Conference
- L. Swanbrow & **CR Gabor**. Effects of turbidity and visual versus chemical cues on predator avoidance by fountain darters, *Etheostoma fonticola*. TEXAS ACADEMY OF SCIENCES CONFERENCE.
- JJ. Muraco & **CR Gabor**. Maintenance of a Unisexual-Bisexual Mating Complex: Importance of Behavioral Syndromes. TEXAS ACADEMY OF SCIENCES CONFERENCE.

D. Davis & **CR Gabor** Phylogenetic generalization of predators by the San Marcos salamander, *Eurycea nana*. TEXAS ACADEMY OF SCIENCES CONFERENCE.

## 2010

- L. Alberici da Barbiano, Z Gompert, AS Aspbury, **CR Gabor**, C. Nice.  
Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model. EVOLUTION CONFERENCE
- L. Alberici da Barbiano, Z Gompert, AS Aspbury, **CR Gabor**, C. Nice.  
Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model. WISE CONFERENCE, TEXAS STATE UNIVERSITY
- L Alberici da Barbiano, Z Gompert, AS Aspbury, **CR Gabor**, C Nice.  
Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model. ANNUAL ECOLOGICAL INTEGRATION SYMPOSIUM, TEXAS A & M UNIVERSITY.
- L Alberici da Barbiano, Z. Gompert, AS Aspbury, **CR Gabor**, C Nice.  
Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model. TEXAS ACADEMY OF SCIENCES CONFERENCE.
- CR Gabor**, J. Ma, AS Aspbury. Androgen response in a unisexual-bisexual mating complex. ANIMAL BEHAVIOR SOCIETY CONFERENCE.
- LI Rangel, **CR Gabor**, AS Aspbury. Permissiveness of males in a unisexual-bisexual mating complex. ANIMAL BEHAVIOR SOCIETY CONFERENCE.
- J Ma, AS Aspbury, **CR Gabor**. Sperm priming, 11-ketotestosterone, and male mate preference in *Poecilia mexicana*. ANIMAL BEHAVIOR SOCIETY CONFERENCE.

## 2009

- Alberici da Barbiano, L., A. Aspbury, C. **Gabor**, Z. Gompert & C. Nice.  
Metapopulation dynamics and sperm storage: a simulation model to explain the maintenance of *Poecilia formosa*. TEXAS POECILIID BIOLOGIST CONFERENCE
- Parmley, M., **Gabor**, C. R., & Aspbury, A. S. Sexually parasitic unisexual Amazon molly mate preference for large males: sensory bias or direct benefits? ANIMAL BEHAVIOR SOCIETY CONFERENCE, Brazil.
- Aspbury, A. S., Coyle, J. M., & C. R. **Gabor**. Effect of predation on male mating behavior in a unisexual-bisexual mating system. ANIMAL BEHAVIOR SOCIETY CONFERENCE, Brazil.
- Gabor**, C. & Grober, M.. The interaction of male and female androgens in male mate preference in a unisexual-bisexual mating complex. ANIMAL BEHAVIOR SOCIETY CONFERENCE

## 2008

- KJ Epp & **CR Gabor**. The effect of predator diet and prey experience on antipredator behavior in the aquatic salamander *Eurycea nana*. EVOLUTION CONFERENCE
- C Espinedo, A Aspbury & **CR Gabor**. Symmetrical Isolation: A Tale of Two Species. EVOLUTION CONFERENCE
- CR Gabor** & A Aspbury. Male preference functions based on female size in the sailfin molly, *Poecilia latipinna*: bigger is not always better. EVOLUTION CONFERENCE

J Coyle, **CR Gabor** & A. Aspbury. Male mate selection of *Poecilia latipinna* under wading bird predation risk. Honors poster presentation.

## 2007

KJ Epp & **CR Gabor**. Experience affects the avoidance of native and non-native predators by the San Marcos salamander, *Eurycea nana*. Texas Herpetological Society Symposium

KJ Epp & **CR Gabor**. Experience affects salamander avoidance of native and non-native predators. ANIMAL BEHAVIOR SOCIETY

L Alberici da Barbiano, AS Aspbury, CC Nice & CR Gabor. Unisexual-bisexual mating systems: Is male fitness influenced by the frequency of unisexual heterospecific females?. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

C Espinedo, AS Aspbury & CR Gabor. Male mate choice in *Gambusia*. ANIMAL BEHAVIOR SOCIETY

C. Espinedo, CR Gabor, & A. S. Aspbury. Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies. AMERICAN FISHERIES SOCIETY MEETING, Lake Jackson, Texas

## 2006

D. Robinson, A. Aspbury, and **CR Gabor**. Rapid spermiation during mating by male sailfin molly, *Poecilia latipinna*. INTERNATIONAL SOCIETY FOR THE STUDY OF BEHAVIORAL ECOLOGY.

K. Epp and **CR Gabor**. Differential Behavioral Response of *Eurycea nana* to Native vs. Non-native predators' chemical cues. INTERNATIONAL SOCIETY FOR THE STUDY OF BEHAVIORAL ECOLOGY.

C. Espinedo and **CR Gabor** Analyzing the significance of chemical versus visual cues in sperm production by male sailfin mollies, *Poecilia latipinna*. EVOLUTIONARY BEHAVIORAL ECOLOGISTS REGIONAL, Annual Meeting spring

D. Robinson, A. Aspbury, and **CR Gabor**. Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*. EVOLUTIONARY BEHAVIORAL ECOLOGISTS REGIONAL, Annual Meeting

K. Epp and **CR Gabor**. Differential Behavioral Response of *Eurycea nana* to Native vs. Non-native predators' chemical cues. EVOLUTIONARY BEHAVIORAL ECOLOGISTS REGIONAL, Annual Meeting

## 2005

L. K. Lucas, C. C. Nice, J. N. Fries, **C. R. Gabor**. Population genetics of a threatened plethodontid salamander. SOCIETY FOR THE STUDY OF EVOLUTION CONFERENCE, Annual Meeting

\*C. M. Espinedo, A. Aspbury, and **C. R. Gabor**. Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies, *Poecilia latipinna* ANIMAL BEHAVIOR SOCIETY, Annual Meeting

D. Robinson, A. Aspbury and **C. R. Gabor**. Differential sperm allocation in the sailfin molly, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

K. Epp and **C. R. Gabor**. Differential behavioural response of the salamander *Eurycea nana* to native vs. non-native predators' chemical cues. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

Gonzalez, **C. R. Gabor** and Aspbury Differential sperm transfer in relation to size in sailfin mollies, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

## 2004

A. S. Aspbury and **C. R. Gabor** Differential Sperm Priming by Male Sailfin Mollies (*Poecilia latipinna*). AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS.

**C. R. Gabor**, D. King,\*, and R. Fields,\* No species recognition based on visual and chemical cues in male sailfin mollies, *Poecilia latipinna*. AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS

## 2003

A. Aspbury and **C. R. Gabor** Differential Sperm Priming by Male Sailfin Mollies (*Poecilia latipinna*). FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS.

Jennifer M. Gumm and **C. R. Gabor** Asexuals looking for sex: Species and mate-quality recognition in *Poecilia latipinna*. FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS.

**C. R. Gabor** and Danielle King\* Examining the use of visual and chemical cues for species recognition in male Sailfin mollies, *Poecilia latipinna*. Poster at FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS. Fall 2003

Maria Thaker, **C. R. Gabor**, and Joe Fries. Sensory cues and association preferences in the San Marcos salamander. TEXAS HERPETOLOGICAL SOCIETY FALL SYMPOSIUM. SOUTHWEST ASSOCIATION OF BIOLOGISTS.

Maria Thaker, **C. R. Gabor**, and Joe Fries. Sensory cues and association preferences in the San Marcos salamander. SOUTHWEST ASSOCIATION OF BIOLOGISTS, Annual Meeting.

Maria Thaker, **C. R. Gabor**, and Joe Fries. Sensory cues and association preferences in the San Marcos salamander. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

Jennifer M. Gumm and **C. R. Gabor**. Asexuals looking for sex: Species and mate-quality recognition in *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

Danielle, King\* and **C. R. Gabor**. Species recognition and discrimination via olfactory cues in the male sailfin molly, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

Andrea Aspbury and **C. R. Gabor** Effects of male size and female presence on sperm availability in the sailfin molly. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

## 2002

**Gabor, C. R.** Female mate choice for novel male traits. Poster presentation at ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**Gabor, C. R.** Female mate choice for artificially selected novel traits. Poster presentation at II INTERNATIONAL SYMPOSIUM ON LIVEBEARING FISHES: Mexico.

## 2001

**Gabor, C. R.**, R. Page\* and C. Setiawan\*. Female reproductive status and preference for smelly big males: Is size all there is? ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**Gabor, C. R.** Geographic variation in mate choice by sailfin mollies, *Poecilia latipinna*. TEXAS ACADEMY OF SCIENCE, Annual Meeting.

## 2000

**Gabor, C. R.** and M. J. Ryan. Geographic variation in reproductive character displacement in mate choice by sailfin mollies. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

## 1999

**Gabor, C. R.** and M. J. Ryan. Reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of live bearing fish. SOUTH CENTRAL BEHAVIOR AND EVOLUTION SOCIETY, Regional Meeting.

**Gabor, C. R.** and M. J. Ryan. Reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of live bearing fish (Poeciliidae). Joint meeting of THE SOCIETY FOR THE STUDY OF EVOLUTION, AND THE AMERICAN SOCIETY OF NATURALISTS, AND THE SOCIETY OF SYSTEMATIC BIOLOGISTS.

**1998**

**Gabor, C. R.,** J. Krenz, and R. Jaeger. Female choice, male interference, and sperm precedence in the red-spotted newt. INTERNATIONAL BEHAVIORAL ECOLOGY CONGRESS.

**Gabor, C. R.,** J. Krenz, and R. Jaeger. Sexual selection for female preference and male interference in the newt, *Notophthalmus viridescens*: behavioral experiments and the detection of sperm precedence using genetic markers. Joint meeting of THE SOCIETY FOR THE STUDY OF EVOLUTION, AND THE AMERICAN SOCIETY OF NATURALISTS, AND THE SOCIETY OF SYSTEMATIC BIOLOGISTS.

**1997**

**Gabor, C. R.** An arms race between female choice and male-male competition in newts. INTERNATIONAL ETHOLOGICAL CONFERENCE.

**Gabor, C. R.** Female choice in red-spotted newts: the null hypothesis and male-male competition. ANIMAL BEHAVIOR SOCIETY, Annual Meeting. Allee Award Competition

**1996**

**Gabor, C. R.** and R. G. Jaeger. The preference for big fish in sailfin mollies is not gender dependent. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

Jaeger, R. G. and **C. R. Gabor.** Variation in agonistic behavior of a territorial salamander. Joint meeting of the AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS AND THE HERPETOLOGISTS' LEAGUE.

**1995**

**Gabor, C. R.** Differential kin discrimination by egg eating salamanders. ANIMAL BEHAVIOR SOCIETY.

**1994**

**Gabor, C. R.** Sequential mate choice by the female smooth newt (*Triturus vulgaris*). Joint meeting of the HERPETOLOGISTS' LEAGUE AND THE SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES, Annual Meeting. Herpetologist League Award Competition

**Gabor, C. R.** The effects of prey type on territorial quality of the red-backed salamander, *Plethodon cinereus*. BRITISH ANIMAL BEHAVIOUR SOCIETY.

**1993**

**Gabor, C. R.** Effects of resource quality on the agonistic behavior of territorial salamanders. Joint meeting of the AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS AND THE HERPETOLOGISTS' LEAGUE.

**1992**

**Gabor, C. R.** and R. G. Jaeger. Qualifying territorial quality quantitatively. PLETHODONTID SALAMANDER CONFERENCE.

### INVITED PRESENTATIONS

- 2014 ST. EDWARDS UNIVERSITY, Department of Biology, Amphibian stress response to urbanization and the threat of predation.
- 2014 UNIVERSITY OF SOUTH FLORIDA, Department of Biology, Geographic variation in mate choice in a unisexual-bisexual species complex: Are populations consistent? + stress and disease in amphibians.
- 2014 UNIVERSITY OF FLORIDA, Department of Biology, Geographic variation in mate choice in a unisexual-bisexual species complex: Are populations consistent? + stress and disease in amphibians.
- 2014 DUQUESNE UNIVERSITY, Department of Biological Sciences, Amphibian stress response to infection and the threat of predation.
- 2013 MOUNTAIN LAKE BIOLOGICAL STATION, UNIVERSITY OF VIRGINIA. Stress response of amphibians to chytrid and the threat of predation.
- 2011 TEXAS STATE UNIVERSITY, SAN MARCOS, Department of Biology. Geographic variation in mate choice in a unisexual-bisexual species complex: are populations consistent? plus Stress hormones in amphibians
- 2010 LONG ISLAND UNIVERSITY, CW POST, Biology Department, Examining the evolutionary maintenance of a Unisexual-Bisexual Mating System: ultimate and proximate mechanisms.
- 2010 UNIVERSITY OF TEXAS, AUSTIN, Integrative Biology, Evolutionary maintenance of a unisexual-bisexual mating system: behavior and hormones
- 2010 TRINITY UNIVERSITY, Department of Biology, Examining the Evolutionary maintenance of a Unisexual-Bisexual Mating System: Hormones and Behavior
- 2010 TEXAS STATE UNIVERSITY, SAN MARCOS, Department of Biology. The maintenance of unisexuality: Behavior, hormones, and genetic diversity in a unisexual-bisexual mating complex.
- 2010 TEXAS A & M, Department of Biology, Evolutionary maintenance of a sexually parasitic livebearing fish.
- 2010 TEXAS STATE UNIVERSITY, SAN MARCOS, Department of Biology. Evolutionary maintenance of a sexually parasitic livebearing fish: ultimate and proximate perspectives
- 2009 UNIVERSITY OF ALABAMA, TUSCALOOSA, Department of Biology, Evolutionary maintenance of a sexually parasitic livebearing fish: ultimate and proximate mechanisms.
- 2009 RICE UNIVERSITY, Department of Biology, Evolutionary maintenance of a sexually parasitic species complex.
- 2008 GEORGIA STATE UNIVERSITY, Department of Biology, Evolutionary maintenance of a sexually parasitic livebearing fish: behavioral and hormonal Perspectives.
- 2008 AUCKLAND UNIVERSITY, Evolutionary maintenance of a sexually parasitic mating complex of livebearing fish.
- 2008 American Livebearers Association Conference, Evolutionary maintenance of a unisexual-bisexual species complex of mollies.
- 2007 SAM HOUSTON STATE UNIVERSITY, Department of Biology. Evolutionary maintenance of a unisexual-bisexual species complex of mollies.
- 2007 UNIVERSITY OF CALIFORNIA, DAVIS, Graduate Group in Ecology. Evolutionary maintenance of a unisexual-bisexual species complex.

- 2005 EASTERN MICHIGAN STATE UNIVERSITY, YPSILANTI, Department of Biology. Species recognition vs mate quality recognition in a unisexual-bisexual species complex.
- 2004 TEXAS STATE UNIVERSITY, SAN MARCOS Department of Biology. Species recognition versus mate quality recognition by sailfin molly males: Asexuals looking for sperm.
- 2003 UNIVERSITY OF LOUISIANA, LAFAYETTE, Department of Biology. Biology Seminar. Species Recognition versus Mate Quality Recognition.
- 2003 TEXAS STATE UNIVERSITY, SAN MARCOS Department of Biology. Speciation through mate choice and species recognition in fish?
- 2002 PALO ALTO COLLEGE, Department of Biology. Biology Seminar. Female receptivity and preference for big smelly males, male choice for conspecifics females.
- 2001 TRINITY UNIVERSITY, Department of Biology. Biology Seminar. Female receptivity and preference for big smelly males, male selectivity and preference for conspecifics over female parasites.
- 2001 SOUTHWESTERN UNIVERSITY, Department of Biology. Biology Seminar. Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 2000 SAN ANTONIO COLLEGE, Bridges Program Chemistry Department. Journal Club. The evolution of courtship in newts and geographic variation in mate choice by sailfin mollies.
- 2000 UNIVERSITY OF TEXAS AT AUSTIN, Section of Integrative Biology. Reproductive Biology Seminar. Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 2000 TEXAS STATE UNIVERSITY, SAN MARCOS Department of Biology. Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 1999 UNIVERSITY OF TEXAS AT AUSTIN, Section of Integrative Biology. Population Biology Seminar. Reproductive character displacement in male mate choice in sailfin mollies.
- 1998 UNIVERSITY OF TEXAS AT AUSTIN, Department of Zoology. Female choice, male interference, and sperm precedence in the red-spotted newt.
- 1997 CANTERBURY UNIVERSITY, New Zealand, Department of Zoology. Differential kin discrimination by two species of newts and a preview of sperm precedence.
- 1997 UNIVERSITY OF VIRGINIA, Department of Biology. An arms race between female choice and male-male competition in newts.
- 1996 FLORIDA STATE UNIVERSITY, Department of Biological Sciences. Preference for larger individuals in sailfin mollies: is mate choice the only factor?
- 1996 JAMES MADISON UNIVERSITY, Biology Department. The effects of size and sex on the preferences for association in sailfin mollies.
- 1996 OREGON STATE UNIVERSITY, Biology Department. Differential kin discrimination by two species of newts, *Triturus v. vulgaris* and *Notophthalmus viridiscens*.
- 1996 UNIVERSITY OF TEXAS AT AUSTIN, Department of Zoology. Preference for association in sailfin mollies: interactions of size and sex.
- 1994 LOUISIANA STATE UNIVERSITY, Biology Department. Sequential mate choice by female smooth newts.



- 1994 THE OPEN UNIVERSITY, United Kingdom, Biology Department. Sequential mate choice by female smooth newts, *Triturus v. vulgaris*.
- 1994 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. Sequential mate choice by female smooth newts.
- 1994 CORNELL UNIVERSITY, Department of Neurobiology and Behavior. Sequential mate choice by female smooth newts.
- 1994 SIGMA XI SOCIETY, University of Southwestern Louisiana. Sequential mate choice by female smooth newts.
- 1993 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. The effects of prey type on territorial quality of the red-backed salamander.
- 1992 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. Effects of food resources on territorial quality of red-backed salamanders.

### TEACHING EXPERIENCE

- BEHAVIORAL ENDOCRINOLOGY, SUMMER 2013. Graduate/undergrad course, Mountain Lake Biological Station
- EVOLUTIONARY ECOLOGY, FALL 2010, 2006, 2004. Department of Biology, Texas State University. Graduate course. (3-15 students)
- ANIMAL BEHAVIOR, FALL 2005, SPRING 2004. Department of Biology, Texas State University. Undergraduate course. (12-20 students)
- POPULATION BIOLOGY SEMINAR, FALL 2009. Department of Biology, Texas State University.
- GRADUATE SEMINAR, FALL 2006, 2003; Spring 2003, 2004, 2008, 2010 Department of Biology, Texas State University. Graduate course on varying topics in Behavioral Ecology. (1-15 students)
- BEHAVIORAL ECOLOGY, SPRING 2006, FALL 2003, Spring 2002. Department of Biology, Texas State University. Graduate course. (5-12 students)
- ORGANISMAL BIOLOGY, Fall 2001, 2002, 2008, 2009, 2011. Spring 2003, 2005 2010, Department of Biology, Texas State University. Undergraduate course (200 students)
- ECOLOGY, EVOLUTION, AND SOCIETY, Spring 2000. Section of Integrative Biology, Univ. of Texas, Austin. Lecturer for non-majors undergraduate course and coordinate T. A. for discussion section.
- ECOLOGY AND EVOLUTIONARY BIOLOGY, Fall 1999. Section of Integrative Biology, Univ. of Texas, Austin. Lecturer for majors undergraduate course and coordinate T. A. for discussion section.
- BIOLOGICAL DIVERSITY 1992-93. Dept. of Biology, Univ. of Southwestern Louisiana.
- ☐ Teaching assistant (laboratory), responsible for lectures, exams, and laboratory set-up.
- PRINCIPLES OF BIOLOGY 1991. Dept. of Biology, Univ. of Southwestern Louisiana.
- ☐ Teaching assistant (laboratory), responsible for lectures and exams.

### GUEST TEACHING LECTURES

- ECOLOGY (Undergraduate), Agnes Scott University
- Population Ecology with emphasis on my research 2008
- ORGANISMAL BIOLOGY (Undergraduate), Southwest Texas State University
- Behavioral Ecology with emphasis on Sexual selection theory 2000 - 2005

- Behavioral Biology: introduction to Ethology 2001  
EVOLUTION (Undergraduate), Southwest Texas State University
- Sexual selection: theories of Darwin, Fisher, Zahavi, and Maynard Smith 2001  
ANIMAL BEHAVIOR (undergraduate), University of Texas, Austin
- ☐ Polyandry and Sperm competition. 1998  
EVOLUTION AND ECOLOGY (undergraduate), University of Southwestern Louisiana
- ☐ Darwin's theory of sexual selection. 1997
- ☐ Theories of mate choice: why females tend to be choosy about sexual partners. 1997.
- ☐ Why human females are more coy and human males more aggressive: parental investment theory. 1996
- ☐ Sequential mating by females and sexual strategies. 1994
- ☐ Intraspecific competition and territoriality. 1992
- EVOLUTIONARY ECOLOGY (graduate), University of Southwestern Louisiana
- ☐ Sexual selection: theories of Darwin, Fisher, Zahavi, and Maynard Smith. 1996
- ☐ Sexual selection: pre-existing biases and sensory drive. 1996
- ☐ Sexual selection: theories of Darwin, Fisher, Zahavi, and Maynard Smith. 1994
- BEHAVIORAL ECOLOGY (graduate), University of Southwestern Louisiana
- ☐ Sperm Competition. 1993

### **UNDERGRADUATE STUDENTS MENTORED**

Collin Garoutte – 2014- present, Francis Rose Award, REU stipend, SURF award  
 Josue Gold - 2013  
 Amelia Stinson – 2013, Francis Rose  
 Jose Reyes – 2013- present, Animal Behavior Society Turner Award, Best Honors Undergraduate poster, Best Undergraduate talk Biology Colloquium, Francis Rose, REU stipend, SURF award, best poster presentation in Physiology at the recent Annual Biomedical Research Conference for Minorities  
 Jessica Guenther- 2012 – 2014, SURF  
 Michael Edwards – 2012- 2013, Francis Rose Award for Excellence  
 Kristyn Cunningham – 2012-present- Francis Rose Award for Excellence  
 Cory Scanes – 2012- 2013  
 Katherine Pena -2011-2013, REU stipend  
 Reginald Robinson-2011  
 Pablo Gonzalez – 2011  
 Dominic DeSantis – 2010- present; Francis Rose Award for Excellence, SURF, TAS, Turner Award from Animal Behavior Society, Texas Herpetology society  
 Mitchell Benjamin – 2011  
 Bei Devolld – 2010 – 2011; Francis Rose Award for Excellence  
 Adam Contreras – 2010- 2011; Francis Rose Award for Excellence, Animal Behavior Society Turner Award; REU stipend, 3<sup>rd</sup> place Honors Poster session  
 Lorena Rangel 2009-2010 - Francis Rose Award for Excellence in Undergraduate Research, Animal Behavior Society Turner Award  
 Mark Vanderslice 2008,

Nick Bertrand 2008,  
Julia Coyle 2007-2008 - Francis Rose Award for Excellence in Undergraduate Research  
Michelle Parmley 2007-2009 - Francis Rose Award for Excellence in Undergraduate Research, Durrenberger Scholarship for Women in Science, Animal Behavior Society Turner Award  
Tamira Konkin-Garcia- 2007 Francis Rose Award for Excellence in Undergraduate Research, Durrenberger Scholarship for Women in Science, Runner up Mitte Honors Poster Presentation  
Holly Brewer 2006  
Celeste Espinedo -Turner Travel Award for Minorities to present at ABS conference 2005; Durrenberger Scholarship for a Women Undergraduate in College of Science. 2006 Outstanding undergraduate presentation TSU Department of Biology Colloquium, REU stipend  
Rosie Gonzalez 2005  
Ray Gonzales 2005-2006  
Paul Phillips IV 2004  
Tami Tarbox 2003  
Andrew Dullnig 2003  
Rebecca Fields 2003-2004  
Danielle King won –Turner Travel Award for Minorities to present at ABS conference 2003, Field Biology Award, and Smith-Wilms Biology Scholarship from TSU  
Carlene Worthington 2001  
**Prior to Texas State**  
Fouad Abedi, Christina Edeus, Eric Holmes, Rachel Page, Melissa Ross, Bobby Schreiber, Christopher Setiawan, Seema Sidhwani, Jennifer Stahl, Elizabeth Vanderwerkin

## THESIS COMMITTEES/ ADVISOR

### Advisor:

1. Megan Mondelli (Spring 2014-present) - MS
2. Steven Nagy (Fall 2013- present)- MS
3. Kristina Zabierek (Spring 2013- fall 2014) – MS, Effects of diel cycle and turbidity on antipredator response to multiple cues of predators by *Eurycea nana* and *Eurycea sosorum*
4. Son Young Kim (Fall 2012- present) - PhD.- Sigma Xi,
5. Chelsea Blake (Fall 2011- present) – PhD, NSF GRFP 2013-2017, Best Biology Colloquium Poster 2012, Howard McCarley Student Research Award (Southwestern Association of Naturalists)
6. Sophia DeColo (Spring 2012-2014) – MS, Effects of turbidity on mate choice behavior in the fountain darter
7. Lily Swanbrow Becker (Fall 2010-2012) – MS, Effects of turbidity on anti-predator response and foraging behavior in the fountain darter, *Etheostoma fonticola*. Howard McCarley Student Research Award (Southwestern Association of Naturalists), Best Biology Colloquium Presentation 2012

8. James Muraco (Fall 2010- 2012) – MS, Proximate and ultimate perspectives on the maintenance of a unisexual-bisexual mating complex: importance of behavioral syndromes and stress hormones. Sigma Xi
9. Drew Davis (Spring 2010-2012) – MS, Predator-prey interactions in the San Marcos salamander (*Eurycea nana*): predator generalization and stress hormones in response to introduced predators. Texas Herpetological Society Award, Howard McCarley Student Research Award (Southwestern Association of Naturalists)
10. Jacqueline Ma (Fall 2009- 2011) – MS – Thesis title: Proximate and ultimate perspectives on sperm production and mating behavior in a bisexual-unisexual mating system between sailfin (*Poecilia latipinna*) and Atlantic (*P. mexicana*) mollies with clonal Amazon mollies (*P. formosa*). Best Biology Colloquium poster 2010, Runner up Best WISE poster 2010.
11. John Waller (Spring 2009- summer 2009) – left for Lund University with his girlfriend
12. Laura Alberici de Barbiano (Fall 2006 – 2012) –PhD – Origins, population genetics and evolutionary ecology of a gynogenetic species. Theodore Roosevelt Award, Texas Academy of Science Student Grant, Raney Award (ASIH), McCarley Award (SWAN), ALA Vern Parish Award, Sigma Xi x 2; Durrenberger Scholarship for Women, Alexander Stone Genetics Scholarship Award, and Schluzer Award
13. Kristen Epp (2004 -2010) – PhD –Dissertation Title: Predator recognition and avoidance in the San Marcos salamander. Animal Behavior Society grant; Sigma Xi, Norris Scholarship, Runner up best grad student presentation 2007, 2009, San Antonio Conservation Association Scholarship, Flowing Waters NSF Fellow, EARD Conservation Scholarship, Durrenberger Scholarship for Women, Norris Scholarship. Assistant professor Ottawa University
14. Celeste Espinedo (2006 – 2008) –M.S.- Thesis title: The degree of reproductive isolating in *Gambusia affinis* and *Gambusia geiseri*. Durrenberger Scholarship, Best undergraduate student presentation Biology Colloquium
15. Rosie Gonzalez (2004-2007) – M.S. Thesis title: Male mate choice in relation to female and male size in *Poecilia latipinna*
16. Donelle Robinson (2004 -2006) – M. S. Thesis title: Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*. Durrenberger Scholarship for Women. Three year RA from Dr. Morris at Ohio University for work on her PhD.
17. Jennifer Gumm (2002-2004) – MS Thesis title: Species and mate-quality recognition in *Poecilia latipinna*. Assistant Professor at Stephen F. Austin State University
18. Maria Thaker (2002-2004) – MS Thesis title: Sensory Cues, Association Preferences, and Social Interactions of the San Marcos Salamander (*Eurycea nana*). Best Graduate student presentation, Stoye Award (2004 ASIH meeting). Assistant Professor at the Center for Ecological Sciences at the Indian Institute of Science

Committee Member:

Ruben Tovar (Garcia) 2014, Devin Preston (Forstner) 2011, Clay Williams (Nice) 2008, Lauren Lucas (Nice) 2007, Scott Egan (Ott) 2003, Erin Foster (Lavalli) 2001, Carmen Hall (Ott) 2001, Richard Reynolds (Ott) 2000

Outside Committee Member:

Nancy Kohn (2003-2008)- PhD. (University of Louisiana, Lafayette).

Dissertation title: Tests of memory and individual recognition in the red-backed salamander

## POSTDOCTORAL ADVISOR

Dr. Andrea Aspbury, University of Nebraska (2002-2004)

Dr. Laura Alberici da Barbiano, Texas State University (2012-2013)

## PROFESSIONAL SERVICE

Associate Editor for *Behavioral Ecology and Sociobiology* (2005-present)

Associate Editor for *Amphibia-Reptilia* (2009-present)

IACUC committee member

Public Affairs Committee chair -Animal Behavior Society (summer 2009-present)

USFW reviewer for salamander listing 2013

Discussion for the Philosophical Dialogue series Texas State University 2012

Presented at the AWIS chapter at Texas State University 2012

Presented at Broader Impacts Symposium Animal Behavior Society Conference 2012- Case studies of successful broader impact projects: a personal perspective

Co-Organized the **EuryceAlliance Conference** – 40 attendees, 2014

Co-Organized the **EuryceAlliance Conference** at Texas State University – 29 attendees and 12 talks 2011, 11 talks 2012

Presented to Capitol Area County Master Naturalists 2011

Presented to Hays County Master Naturalists 2011

Organized symposium on Geographic Variation in Behavior for the joint meeting of the Animal Behavior Society and the International Ethological Conference (IEC) 2011

Allee Competition Judge for Behavior Conference 2011

Mentor for Minority Undergraduates at Animal Behavior Conference Summer (2003, 2010, 2011, 2012)

Coordinate and initiated the Evolution, Ecology, and Behavior (EEB) discussion group (2000-present)

Organized the **Texas Poeciliid Biologist Conference** at Texas State University – 43 attendees and 18 talks December 14, 2009.

Poster Judge Women in Science Conference 2010

Judge for the Hamilton Award –Evolution Conference 2008

Advisor to the TSU Triathlon Club (2002- 2009)

Presented at Travis High School – Women in Science for Marty Wise Spring 2006

Panelist for Women in Science discussion at the Lady Bird Johnson Wildflower center (spring 2005, 2006)

Poster Judge for Society for Advancement of Chicanos and Native Americans in Science (fall 2004)

SMTEI mentor for Lanier, TX high school teacher Matt Holmes (summer 2001-2003)

## REVIEWS

### JOURNALS

*Acta Ethologica, Amphibia-Reptilia, Animal Behaviour, Animal Cognition, American Naturalist, Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behavioral Processes, Biological Journal of the Linnaean Society, Copeia, Current Zoology, Ethology, Ecology, and Evolution, Evolution, Evolutionary Ecology, Herpetologica, International Journal of Zoology, Journal of Environmental Biology, Journal of Ethology, Journal of Fish Biology, Journal of Herpetology, Hormones and Behavior, Naturwissenschaften, PlosONE, Proceedings of the National Academy of Science, Physiology and Behavior, Proceedings of the Royal Society of London, Series B Biological Science, Southwest American Naturalist, Zoo Biology*

### EXTERNAL GRANT REVIEWER

NSF – IOS DDIG grant panel reviewer 2014  
NSF – IOS Grant Panel Reviewer 2014  
Lewis and Clark grants (APLS) 2012, 2013  
Animal Behavior Society grants 2012  
NSF Graduate Research Fellowship Panel Review 2010, 2011  
Jeffress Grant Foundation 2010  
NSF DOB Panel Reviewer 2005, 2011  
NSF x 13 (2002-2010)  
Austrian Science Fund (FWF) the Austrian equivalent to NSF x1  
Review for Austin Community Foundation administers the Barton Springs Salamander Conservation Fund summer 09

### TEXTBOOK AND LAB MANUAL REVIEWS

*Investigative Biology* Lab Manual, Morgan & Carter for Benjamin Cummings 2000  
*Applications in Biological Science Laboratory* Lab Manual, Tarrant & Besaw for Thomson Learning 2001  
Animal Behavior Text book for Prentice Hall-Pearson Education 2004

## PROFESSIONAL AFFILIATIONS

Animal Behavior Society, International Society for Behavioral Ecology, Sigma Xi, The Scientific Research Society, Society for the Study of Evolution