
Michael Tobler

Department of Zoology, Oklahoma State University
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ACADEMIC EDUCATION

2008	Ph. D., University of Zürich, Institute of Zoology Advisors: Ingo Schlupp and Heinz-Ulrich Reyer
2004	Diploma, Swiss Federal Institute of Technology Zürich (ETH), Department of Biology Advisors: Ingo Schlupp and Paul Schmid-Hempel
2000-2004	Studies of Biological Sciences at the Swiss Federal Institute of Technology Zürich (ETH) and the University of Zürich with focus on behavior, ecology, and evolution.

PROFESSIONAL APPOINTMENTS

2010-date	Assistant Professor, Department of Zoology, Oklahoma State University
2008-2010	SNSF Postdoctoral Research Associate, Texas A&M University, with Kirk Winemiller (Department of Wildlife and Fisheries Sciences) and Gil Rosenthal (Department of Biology)
2008-2009	Lecturer, Texas A&M University, Department of Wildlife and Fisheries Sciences
2006-2007	Research Assistant for the Tar Creek EPA Superfund Project, University of Oklahoma, Department of Zoology
2005-2007	Affiliated Research Scholar, University of Oklahoma, Department of Zoology

GRANTS AND AWARDS

2012	Sigma Xi Young Investigator Award of Sigma Xi's OSU chapter.
2011-2014	National Science Foundation, Integrative Organismal Systems (PI: Tobler, co-author: J. Kelley): Replicated ecological speciation in extreme habitats: patterns, mechanisms, and consequences of multi-trait divergence. \$481'000.
2011-2012	Ralph E. Powe Junior Faculty Enhancement Award from Oak Ridge Associated Universities (ORAU) (PI: Tobler): Metabolic rates and transcriptomics in sulfide spring fish. \$10,000.
2011-2014	Oklahoma Department of Wildlife Conservation, State Wildlife Grant (PI: Tobler; Co-PI: Morehouse): Determining factors affecting the distribution of endangered fish and crayfish species with emphasis on the Ozark region in Northeastern Oklahoma. \$99,900.
2011-2014	Oklahoma Department of Wildlife Conservation, State Wildlife Grant (PI: Brewer; Co-PI: Tobler): The impacts of flow alterations to crayfishes in southeastern Oklahoma, with an emphasis on the Mena crayfish (<i>Orconectes menae</i>). \$93,700.
2010	Presentation Award of the Texas Chapter of the American Fisheries
2010-2011	Texas Sea Grant (Co-PIs: L. Fitzgerald & H. Prestridge): Morphological variation in Texas fish communities. \$9,000.
2010-2011	National Geographic Society (PI: Tobler): Living in extreme environments - ecology, evolution, and conservation of sulfide fishes. \$14,800.
2009	FIRST IV Scholar funded by the National Science Foundation (PI: D. Ebert-May; Co-PI: T. Derting): Professional development program for teaching and learning in undergraduate biology.
2008-2010	Swiss National Science Foundation Postdoctoral Fellowship: Evolutionary consequences of extreme environmental conditions: Is living in sulfidic habitats causing speciation in <i>Poecilia mexicana</i> ? \$79,000.

- 2007 Jordan Research Fund of the American Cichlids Association. \$2,300.
- 2007 Wolfermann Nägeli Foundation (Switzerland). \$20,500.
- 2007 Stoye Award of the American Society of Ichthyologists and Herpetologists.
- 2007 Janggen Poehn Foundation (Switzerland). \$34,500.
- 2006 Vern Perish Fund of the American Livebearer Association. \$1,000.
- 2006 Theodore Roosevelt Memorial Fund of the American Museum of Natural History. \$1,100.
- 2006 German Ichthyological Association (Germany). \$2,100.
- 2006 Wolfermann Nägeli Foundation (Switzerland). \$36,500.
- 2005 Basler Foundation for Biological Research (Switzerland). \$9,000.
- 2005 Janggen Poehn Foundation (Switzerland). \$18,000.
- 2005 Roche Research Foundation (Switzerland). \$23,000.
- 2004 Willi Studer Award of the Swiss Federal Institute of Technology Zürich (ETH).
- 2004 Barth Foundation (Switzerland). \$750.
- 2003 Society for Natural Sciences (Switzerland). \$500.
- 2003 Swiss Academy of Sciences (Switzerland). \$1,800.
- 2003 Barth Foundation (Switzerland). \$900.

TEACHING EXPERIENCE AND TEACHING EDUCATION

- 2011-date Courses taught, Department of Zoology, Oklahoma State University
 ZOOL 4133; Evolution (upper-level undergraduate/graduate)
 ZOOL 3700/5020; Introduction to fish biology (upper-level undergraduate/graduate)
- 2009-2010 Participant in FIRST IV, a national dissemination project funded by the National Science Foundation designed to reform undergraduate science education through professional development
- 2008-2009 Courses taught, Department of Wildlife and Fisheries Sciences, Texas A&M University
 WFSC 311: Introduction to Ichthyology (upper-level undergraduate/graduate)
- 2002-2003 Teaching Assistant, Systematical Botany and Plant Ecology, Swiss Federal Institute of Technology Zürich (ETH),

PUBLICATIONS

65. Carson, E. W., **M. Tobler**, W. L. Minckley, R. J. Ainsworth & T. E. Dowling (2012): Relationships between spatio-temporal environmental and genetic variation reveal an important influence of exogenous selection in a pupfish hybrid zone. *Molecular Ecology* 21 (5): 1209-1222.
64. Scharnweber, K., M. Plath & **M. Tobler** (in press): Trophic niche segregation between the sexes of two species of livebearing fishes (Poeciliidae). *Bulletin of Fish Biology*.
63. Scharnweber, K., M. Plath, K. Winemiller & **M. Tobler** (2011): Dietary niche overlap in sympatric asexual and sexual livebearing fishes (*Poecilia* spp.). *Journal of Fish Biology* 79 (7): 1760-1773.
62. **Tobler, M.** & L. Hastings (2011): Convergent patterns of body shape differentiation in four different clades of poeciliid fishes inhabiting sulfide springs. *Evolutionary Biology* 38 (4): 412-421.
61. Roach, K., **M. Tobler** & K.O. Winemiller (2011): Hydrogen sulfide, bacteria, and fish: a unique, subterranean food chain. *Ecology* 92 (11): 2056-2062.
 Featured by the *Texas Farm Bureau Radio Show* and various international online media
60. Scharnweber, K., M. Plath & **M. Tobler** (2011): Examination of boldness traits in sexual and asexual mollies (*Poecilia latipinna*, *P. formosa*). *Acta Ethologica* 14 (2): 77-83.
59. **Tobler, M.**, M. Palacios, L. J. Chapman, I. Mitrofanov, D. Bierbach, M. Plath, L. Arians-Rodriguez, F. J. Garcia de Leon & M. Mateos (2011): Evolution in extreme environments: replicated phenotypic differentiation in livebearing fish inhabiting sulfidic springs. *Evolution* 65 (8): 2213-2228.

58. Bierbach, D., M. Schulte, N. Herrmann, **M. Tobler**, S. Stadler, C.T. Jung, B. Kunkel, R. Riesch, S. Klaus, M. Ziege, J. Rimber Indy, L. Arias-Rodriguez & M. Plath (2011): Predator-induced changes of female mating preferences: innate and experiential effects. *BMC Evolutionary Biology* 11: 190.
This paper is the result of a field course I co-taught in Mexico with Dr. M. Plath (University of Frankfurt).
57. **Tobler, M.**, I. Schlupp & M. Plath (2011): Female feeding time reductions in the presence of males: sexual harassment or costly female choice? *Behavioral Ecology* 22 (4): 723-729.
56. Plath, M., R. Riesch, Z.W. Culumber, B. Streit & **M. Tobler** (2011): Predation by a giant water bug (*Belostoma* sp.) on a cave fish (*Poecilia mexicana*): effects of female body size and gestational state. *Evolutionary Ecology Research* 13: 133-144.
55. Franssen, N.R., **M. Tobler** & K.B. Gido (2011): Annual variation of community biomass is lower in more diverse stream fish communities. *Oikos* 120 (4): 582-590.
54. **Tobler, M.**, Z.W. Culumber, M. Plath, K.O. Winemiller & G.G. Rosenthal (2011): An indigenous religious ritual selects for resistance to a toxicant in a livebearing fish. *Biology Letters* 7 (2): 229-232.
Listed among the most read articles in *Biology Letters*; featured by the *AAAS Science Update* podcast, *The Loh Down on Science* podcast, *Smithsonian Magazine*, *MSNBC*, *Fox News*, *Yahoo*, *Livescience.com*, *New Scientist*, *Science Daily*, *Discover Magazine*, *Scienceblog.com*, *Archaeology Magazine*, *The Daily O'Collegian*, and various international online and print media.
53. **Tobler, M.** & M. Plath (2011): Living in extreme environments. In: J. Evans, A. Pilastro & I. Schlupp (eds.): *Ecology and Evolution of Poeciliid Fishes*. Chicago University Press, Chicago, IL, USA: 120-127.
52. Scharnweber, K., M. Plath & **M. Tobler** (2011): Feeding efficiency and food competition in coexisting sexual and asexual livebearing fishes of the genus *Poecilia*. *Environmental Biology of Fishes* 90 (2): 197-205.
51. Culumber, Z.W., H.S. Fisher, **M. Tobler**, M. Mateos, P.H. Barber, M.D. Sorenson & G.G. Rosenthal (2011): Replicated hybrid zones of *Xiphophorus* swordtails along an elevational gradient. *Molecular Ecology* 20 (2): 342-356.
50. Ketmaier, V., H. Stuckas, J. Hempel, I. Laneck, **M. Tobler**, M. Plath & R. Tiedemann (2010): Genetic and morphological divergence in the gravel bank grasshopper *Chorthippus pullus* (Acrididae) from contrasting environments. *Organisms Diversity & Evolution* 10 (5): 381-395.
49. Schlupp, I., R. Riesch, **M. Tobler**, M. Plath, J. Parzefall & M. Scharl (2010): A novel, sexually selected trait in poeciliid fishes: female preference for mustache-like, rostral filaments in male *Poecilia sphenops*. *Behavioral Ecology and Sociobiology* 64 (11): 1849-1855.
Featured by *BBC News*, *National Public Radio*, and various international online and print media
48. Plath, M., B. Hermann, C. Schröder, R. Riesch, **M. Tobler**, F.J. García de León, I. Schlupp & R. Tiedemann (2010): Catastrophic flood does not lead to loss of small-scale genetic differentiation among locally adapted populations of an extremophile fish (*Poecilia mexicana*, Poeciliidae). *BMC Evolutionary Biology* 10: 256.
47. Voelker, G., R. K. Outlaw, S. Reddy, **M. Tobler**, J. M. Bates, S. J. Hackett, C. Kahindo, B. D. Marks, J. K. Peterhans & T. P. Gnoske (2010): A new species of boubou (Malaconotidae: *Laniarius*) from the Albertine Rift. *The Auk* 127 (3): 678-689.
46. Plath, M., R. Riesch, A. Oranth, J. Dzienko, N. Karau, A. Schiessl, S. Stadler, A. Wigh, C. Zimmer, L. Arias-Rodriguez, I. Schlupp & **M. Tobler** (2010): Complementary effects of natural and sexual selection against immigrants maintains differentiation between locally adapted fish. *Naturwissenschaften* 97 (8): 769-774.
45. **Tobler, M.** & E. W. Carson (2010): Environmental variation, hybridization, and phenotypic diversification in Cuatro Ciénegas pupfishes. *Journal of Evolutionary Biology* 23 (7): 1475-1489.
44. Schlupp, I., A. Taebel-Hellwig & **M. Tobler** (2010): Equal fecundity in asexual and sexual mollies (*Poecilia*). *Environmental Biology of Fishes* 88 (2): 201-206.
43. **Tobler, M.** & I. Schlupp (2010): Differential susceptibility to food stress in neonates of sexual and asexual mollies (*Poecilia*, Poeciliidae). *Evolutionary Ecology* 24 (1): 39-47.
42. **Tobler, M.**, S. W. Coleman, B. D. Perkins & G. G. Rosenthal (2010): Reduced opsin gene expression in a cave-dwelling fish. *Biology Letters* 6 (1): 98-101.

41. Plath, M. & **M. Tobler** (2010): Subterranean fishes of Mexico (*Poecilia mexicana*, Poeciliidae). In: E. Trajano, M. E. Bichuette & B. G. Kapoor (eds.): *The Biology of Subterranean Fishes*. Science Publishers, Enfield, NH, USA: 283-332.
40. **Tobler, M.**, R. Riesch, C. M. Tobler, T. Schulz-Mirbach & M. Plath (2009): Natural and sexual selection against immigrants maintains differentiation among micro-allopatric populations. *Journal of Evolutionary Biology* 22 (11): 2298-2304.
39. Fontanier, M. E. & **M. Tobler** (2009): A morphological gradient revisited: cave mollies vary not only in eye size. *Environmental Biology of Fishes* 86 (2): 285-292.
38. **Tobler, M.**, R. Riesch, C. M. Tobler & M. Plath (2009): Compensatory behavior in response to sulfide-induced hypoxia affects time budgets, feeding efficiency, and predation risk. *Evolutionary Ecology Research* 11 (3): 935-948.
37. **Tobler, M.** & M. Plath (2009): Threatened fishes of the world: *Poecilia sulphuraria* (Alvarez, 1948) (Poeciliidae). *Environmental Biology of Fishes* 85 (4): 333-334.
36. **Tobler, M.** (2009): Does a predatory insect contribute to the divergence between cave- and surface-adapted fish populations? *Biology Letters* 5 (4): 506-509.
Featured in *Science Magazine*, *Spektrum der Wissenschaft*, and various international online and print media
35. **Tobler, M.** & M. Plath (2009): Threatened fishes of the world: *Gambusia eurystoma* Miller, 1975 (Poeciliidae). *Environmental Biology of Fishes* 85 (3): 251.
34. **Tobler, M.** & I. Schlupp (2009): Threatened fishes of the world: *Poecilia latipunctata* Meek, 1904 (Poeciliidae). *Environmental Biology of Fishes* 85 (1): 31-32.
33. Riesch, R., **M. Tobler**, M. Plath & I. Schlupp (2009): Offspring number in a livebearing fish (*Poecilia mexicana*, Poeciliidae): reduced fecundity and reduced plasticity in a population of cave mollies. *Environmental Biology of Fishes* 84 (1): 89-94.
32. Plath, M., **M. Tobler**, O. Klawonn & J. Parzefall (2008): Male mating behavior and sexual harassment in population hybrids of cave and surface dwelling Atlantic mollies (*Poecilia mexicana*, Poeciliidae). *Bulletin of Fish Biology* 10 (1/2): 69-80.
31. Schaschl, H., **M. Tobler**, M. Plath, D. J. Penn & I. Schlupp (2008): Polymorphic MHC loci in an asexual fish, the Amazon molly (*Poecilia formosa*, Poeciliidae). *Molecular Ecology* 17 (24): 5220-5230.
30. Franssen, C. M., **M. Tobler**, R. Riesch, F. J. García de León, R. Tiedemann, I. Schlupp & M. Plath (2008): Sperm production in an extremophile fish, the cave molly (*Poecilia mexicana*, Poeciliidae, Teleostei). *Aquatic Ecology* 42 (4): 685-692.
29. **Tobler, M.** (2008): Divergence in trophic ecology characterizes colonization of extreme habitats. *Biological Journal of the Linnean Society* 95 (3): 517-528.
28. **Tobler, M.**, T. J. DeWitt, I. Schlupp, F. J. García de León, R. Herrmann, P. G. D. Feulner, R. Tiedemann & M. Plath (2008): Toxic hydrogen sulfide and dark caves: Phenotypic and genetic divergence across two environmental gradients in *Poecilia mexicana*. *Evolution* 62 (10): 2643-2649.
27. **Tobler, M.**, I. Schlupp & M. Plath (2008): Does divergence in female mate choice affect male size distributions in two cave fish populations? *Biology Letters* 4 (5): 452-454.
Featured in *Die Ärztezeitung*, *Biologie in unserer Zeit*, *Scinexx*, *Wallstreet Online*, and various online media.
26. **Tobler, M.** & I. Schlupp (2008): Expanding the horizon: The Red Queen and potential alternatives. *Canadian Journal of Zoology* 86 (8): 765-773.
25. **Tobler, M.**, C. M. Franssen & M. Plath (2008): Male-biased predation on a cavefish by a giant water bug. *Naturwissenschaften* 95 (8): 775-779.
Featured in *BBC Wildlife Magazine*.
24. **Tobler, M.**, R. Riesch, F. J. García de León, I. Schlupp & M. Plath (2008): A new and morphologically distinct cavernicolous population of *Poecilia mexicana* (Poeciliidae, Teleostei). *Environmental Biology of Fishes* 82 (1): 101-108.

23. **Tobler, M.**, R. Riesch, F. J. García de León, I. Schlupp & M. Plath (2008): Two endemic and endangered fishes, *Poecilia sulphuraria* and *Gambusia eurystoma* (Poeciliidae, Teleostei), as only survivors in a small sulfidic habitat. *Journal of Fish Biology* 72 (3): 523-533.
Featured in *Practical Fish Keeping Magazine* and *The Aquarist*.
22. **Tobler, M.** & I. Schlupp (2008): Influence of black spot disease on shoaling behaviour in female western mosquitofish, *Gambusia affinis* (Poeciliidae, Teleostei). *Environmental Biology of Fishes* 81 (1): 29-34.
21. Plath, M., **M. Tobler**, R. Riesch, F. J. García de León, O. Giere & I. Schlupp (2007): Survival in an extreme habitat: the role of behavior and energy limitation. *Naturwissenschaften* 94 (12): 991-996.
20. **Tobler, M.**, I. Schlupp & M. Plath (2007): Predation of a cave fish (*Poecilia mexicana*, Poeciliidae) by a giant water-bug (*Belostoma*, Belostomatidae) in a Mexican sulfur cave. *Ecological Entomology* 32 (5): 492-495.
19. Parzefall, J., C. Kraus, **M. Tobler** & M. Plath (2007): Photophilic behaviour in a cave fish, *Poecilia mexicana* (Poeciliidae). *Journal of Fish Biology* 71 (4): 1225-1231.
18. Plath, M. & **M. Tobler** (2007): Sex recognition in surface- and cave-dwelling Atlantic molly females (*Poecilia mexicana*, Poeciliidae, Teleostei): influence of visual and non-visual cues. *Acta Ethologica* 10 (2): 81-88.
17. **Tobler, M.** (2007): Reversed sexual dimorphism and female courtship in the Topaz cichlid, *Archocentrus myrnae* (Cichlidae, Teleostei), from Costa Rica. *Southwestern Naturalist* 52 (3): 371-377.
16. Schlupp, I., R. Riesch & **M. Tobler** (2007): Quick guide—Amazon mollies. *Current Biology* 17 (14): R536-R537.
15. Plath, M., A. M. Makowicz, I. Schlupp & **M. Tobler** (2007): Sexual harassment in livebearing fishes (Poeciliidae): comparing courting and non-courting species. *Behavioral Ecology* 18 (4): 680-688.
14. **Tobler, M.**, I. Schlupp, F. J. García de León, M. Glaubrecht & M. Plath (2007): Extreme habitats as refuge from parasite infections? Evidence from an extremophile fish. *Acta Oecologica* 31 (3): 270-275.
13. Plath, M., S. Hauswaldt, K. Moll, **M. Tobler**, F. J. García de León, I. Schlupp & R. Tiedemann (2007): Local adaptation and pronounced genetic differentiation in an extremophile fish, *Poecilia mexicana*, inhabiting a Mexican cave with toxic hydrogen sulfide. *Molecular Ecology* 16 (5): 967-976.
12. **Tobler, M.**, H. Burmeister, I. Schlupp & M. Plath (2006): Regressive evolution of visually mediated preferences in the Cave molly (*Poecilia mexicana*, Poeciliidae, Teleostei). *Subterranean Biology* 4 (1): 59-65.
11. Plath, M. & **M. Tobler** (2006): Coercive mating and genitalia size in two populations of a livebearing toothcarp (*Poecilia mexicana*): do Cave molly males have shorter gonopodia? *Zeitschrift für Fischkunde* 8 (1-2): 103-107.
10. **Tobler, M.** (2006): The eggspots of cichlids: Evolution through sensory exploitation? *Zeitschrift für Fischkunde* 8 (1-2): 39-46.
9. Schlupp, I., J. Poschadel, **M. Tobler** & M. Plath (2006): Male size polymorphism and testis weight in two species of mollies (*Poecilia latipinna*, *P. mexicana*, Poeciliidae, Teleostei). *Zeitschrift für Fischkunde* 8 (1-2): 9-16.
8. **Tobler, M.**, I. Schlupp, K. U. Heubel, R. Riesch, F. J. García de León, O. Giere & M. Plath (2006): Life on the edge: Hydrogen sulfide and the fish communities of a Mexican cave and surrounding waters. *Extremophiles* 10 (6): 577-585.
7. Riesch, R., I. Schlupp, **M. Tobler** & M. Plath (2006): Reduction of the association preference for conspecifics in cave-dwelling Atlantic mollies, *Poecilia mexicana*. *Behavioral Ecology and Sociobiology* 60 (6): 794-802.
6. **Tobler, M.**, M. Plath, H. Burmeister & I. Schlupp (2006): Black spots and female association preferences in a sexual/ asexual mating complex (*Poecilia*, Poeciliidae, Teleostei). *Behavioral Ecology and Sociobiology* 60 (2): 159-165.
5. **Tobler, M.**, K. Wiedemann & M. Plath (2005): Homosexual behaviour in a cavernicolous fish, *Poecilia mexicana* (Poeciliidae, Teleostei). *Zeitschrift für Fischkunde* 7 (2): 95-99.

4. **Tobler, M.**, T. Wahli & I. Schlupp (2005): Comparison of parasite communities in native and introduced populations of sexual and asexual mollies of the genus *Poecilia* (Poeciliidae, Teleostei). *Journal of Fish Biology* 67 (4): 1072-1082.
3. **Tobler, M.** & I. Schlupp (2005): Parasites in sexual and asexual mollies (*Poecilia*, Poeciliidae, Teleostei): A case for the Red Queen? *Biology Letters* 1 (2): 166-168.
2. **Tobler, M.** (2005): Feigning death in the Central American cichlid *Parachromis friedrichsthalii*. *Journal of Fish Biology* 66 (3): 877-881.
Featured in *Science News Magazine*.
1. Plath, M., **M. Tobler** & I. Schlupp (2004): Cave fish looking for mates: A visual mating preference in surface- and cave-dwelling Atlantic mollies (*Poecilia mexicana*, Poeciliidae). *Zeitschrift für Fischkunde* 7 (1): 61-69.

ADVISEES
Ph. D. students:

- Maura Palacios, 2009-date (co-advised with Mariana Mateos; Texas A&M University)
- Reid Morehouse, 2010-date
- Danielle Alba, 2011-date
- Courtney Passow, 2011-date

Master's students:

- Kristin Scharnweber, M. S., January 2010 (co-advised with Martin Plath; University of Frankfurt, Germany)
- Nina Herrmann, 2011-date (co-advised with Martin Plath; University of Frankfurt, Germany)
- Tess Dumas, 2012-date

Graduate committee member:

- Blake Stevison, M. S. student, 2010-date (OSU)
- Priyanka Chowdhury, Ph. D. student, 2010-date (OSU)
- Jared Goos, Ph. D. student, 2011-date (OSU)
- Candice Miller, Ph. D. student, 2011-date (OSU)
- Chris Musselman, M. S. student, 2011-date (OSU)
- Joseph Schmitt, M. S. student, 2011-date (OSU)
- Christopher Tanner, M. S. student, 2011-date (OSU)

Undergraduate students:

- Oklahoma State University: Anna Baroni (2011-present), Jessy Casey (2011), Isabelle Gemmer (visiting from University of Landau, 2011), Ryan Greenway (2011-present), Emily Laurel (2011-present), Drew Miller (2011-present),
- Texas A&M: Colby Crouse (2009), Kelly Gonzales (2009), Maxwell Fontanier (2008-2010), Logan Hastings (2009-2010), Riva Riley (visiting from Harvard University, 2010), Christopher Vaughn (2009)
- University of Oklahoma: Sarah Ali, (2006-2007), Naomi Kim (2006-2007), Sarah Richardson (2006-2008), Tami Thomason (2005-2006)

INVITED PRESENTATIONS

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- 2012 Universidad Juárez Autónoma Tabasco, Mexico, Division of Biology
University of Missouri, Department of Fisheries & Wildlife Sciences
Baylor University, Department of Biology
- 2011 Kansas State University, Division of Biology
2nd International Meeting of the Goodeid Working Group, Pont l'Évêque, France
- 2010 Oklahoma State University, Department of Zoology
Fordham University, Department of Biological Sciences
Texas A&M University, Department of Wildlife and Fisheries Sciences
University of Texas at Austin, Section of Integrative Biology
- 2009 University of Toronto Scarborough, Department of Biological Sciences
University of Tennessee, Department of Ecology and Evolutionary Biology
Joint Meeting of Ichthyologists and Herpetologists, Portland, OR (Poeciliid symposium)
Baylor University, Department of Biology
University of Texas at Austin, Marine Science Institute
- 2008 El Zamorano University, Honduras, Biodiversity Program
- 2007 University of Texas at Austin, Section of Integrative Biology
University of Oklahoma, Department of Zoology
Sam Houston State University, Department of Biological Sciences
- 2006 Texas A&M University, Department of Wildlife and Fisheries Sciences
- 2005 University of Zürich, Switzerland, Institute of Zoology
University of Oklahoma, Department of Zoology
University of Berne, Switzerland, Department of Behavioral Ecology
- 2004 University of Zürich, Switzerland, Institute of Zoology

SELECTED PRESENTATIONS AT PROFESSIONAL MEETINGS

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- 2012 Annual Meeting of the American Fisheries Society, Oklahoma Chapter, Stillwater, OK
- 2011 Ecological Genomics Symposium, Kansas City, MO
Oklahoma-Texas Aquatic Research Group Meeting, University of Oklahoma Biological Station
Evolution Meeting, Norman, OK
Annual Meeting of the Southwestern Association of Naturalists, Tyler, TX
- 2008 Oklahoma-Texas Aquatic Research Group Meeting, University of Oklahoma Biological Station
- 2007 Joint Meeting of Ichthyologists and Herpetologists, St. Louis, MO
- 2006 Annual Meeting of the Southwestern Association of Naturalists, Colima, Mexico
Texoma Meeting for Ecology and Evolution, University of Oklahoma
- 2005 European Conference of Poeciliid Biologists, Trondheim, Norway
Annual Meeting of the Desert Fishes Council, Cuatro Ciénegas, Mexico
- 2004 International Behavioral Ecology Congress, Jyväskylä, Finland
Aquarium Fish Behavior Symposium, Düsseldorf, Germany

PROFESSIONAL SERVICE ACTIVITIES, OUTREACH, AND VOLUNTEER WORK*Peer Reviewer*

Granting institutions: National Science Foundation, French National Research Agency, Texas Academy of Science, Southwestern Association of Naturalists, Sigma Delta Epsilon (Graduate Women in Science), American Livebearer Association

Journals: Acta Ethologica, American Midland Naturalist, Animal Behavior, Behavioral Ecology, Behavioral Ecology & Sociobiology, Behavioral Processes, Biological Journal of the Linnean Society, Canadian Journal of Zoology, Conservation Biology, Copeia, Ecology Letters, Environmental Biology of Fishes, Evolution, Fish & Fisheries, Journal of Evolutionary Biology, Journal of Fish Biology, Naturwissenschaften, Pan-American Journal of Aquatic Sciences, Proceedings of the Royal Society B, Southwestern Naturalist

Service, Consulting, and Committee Work

- 2011-present Initiator and administrator of Fish Chum (<http://fishchum.okstate.edu/>), a public outreach platform linking the scientific community to today's fish hobbyist
- 2011 Career Workshop for graduate students at the Oklahoma-Texas Aquatic Research Group Meeting, University of Oklahoma Biological Station
- 2011 Judge for the Junior Science & Humanities Symposium (High School Science Fair)
- 2011 Consultant for the BBC for the television documentary series "Wonders of Life"
- 2011 OSU Grandparent University (a science oriented summer camp for kids and their grandparents)
- 2011 Consultant for Enslow Publishers (Berkeley Heights, NJ) for the children's book "Vampire Bats, Giant Insects, and Other Mysterious Animals of the Darkest Caves"
- 2009-2011 Consultant for Mona Lisa Productions (Lyon, France) for the television documentary "Life in Hell" on extremophile animals
- 2008 Instructor, Infusing inquiry into elementary school science (professional development workshop for elementary school teachers), Sam Noble Oklahoma Museum of Natural History
- 2006-2007 Elected officer for ZAGS (Graduate student association of the Department of Zoology, University of Oklahoma)
- 2003 Advisor in the revision of the animal welfare laws in Switzerland. Committee for animal welfare in fishes, Swiss Federal Veterinary Office, Bern
- 2000-2003 Elected students' representative at the education committee and the departmental committee in the Department of Biology, ETH Zürich

Selected Talks to Non-Science Related Audiences

- 2012 Oklahoma Aquarium Association, Stillwater, OK
- 2011 C.A.F.E. Fish Club, Columbus, OH
American Livebearer Association Convention, Cleveland, OH
- 2010 Federation of Texas Aquarium Societies, Oklahoma City, OK
- 2009 American Cichlid Association Convention, Cincinnati, OH
American Livebearer Association Convention, Indianapolis, IN
- 2008 College Station Aquarium Club, College Station, TX
- 2006 OKC Aquarium Association, Oklahoma City, OK
- 2004 Annual Meeting of the German Cichlid Association, Kaiseraugst, Switzerland
Datz-Forum „Aquafisch“, Friedrichshafen, Germany
- 2002 Datz Forum „Central America“, Stuttgart, Germany