

Curriculum Vitae

CHRISTOPHER M. SCHALK

Fall 2019

Arthur Temple College of Forestry and Agriculture
Stephen F. Austin State University
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EDUCATION

- Ph.D. Wildlife and Fisheries Sciences** – August 2016 – Distinguished Graduate Student. Texas A&M University, College Station, TX. Dissertation Title: Community Assembly of Neotropical Frogs Across Ecological Scales. Advisor: Dr. Lee Fitzgerald.
- B.S. Environmental Science** – May 2008 – Class Co-Valedictorian. Graduated *Summa Cum Laude* with Honors. State University of New York College of Environmental Science and Forestry, Syracuse, NY.

PROFESSIONAL EXPERIENCE

- Assistant Professor of Forest Wildlife Management** – August 2017 – Present – Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University.
- Post-Doctoral Research Associate and Lecturer** – January 2016 – July 2017 – Department of Biological Sciences, Sam Houston State University.
- Research Associate** – January 2016 – August 2016 – U.S. Forest Service, Southern Research Station.
- National Science Foundation GRFP Fellow**, August 2010 – August 2016 – Department of Wildlife and Fisheries Sciences, Texas A&M University.
- Research Assistant** – May 2010 – August 2010 – Department of Wildlife and Fisheries Sciences, Texas A&M University.
- NSF-IGERT Applied Biodiversity Science Fellow** – August 2008 – August 2016 – Department of Wildlife and Fisheries Sciences, Texas A&M University.

PUBLICATIONS (* = Undergraduate Student, ^ = Graduate Student)

- Schiwitz, N.C.*, C.M. Schalk, D. Saenz. *In review*. The activity level-predation risk tradeoff in a tadpole guild: Implications for community organization along the hydroperiod gradient. *American Midland Naturalist*.
- Schalk, C.M., H.A. Hester*, D. Saenz. *In review*. Advertisement calls for eleven anuran species from the Gran Chaco of Bolivia. *South American Journal of Herpetology*.
- Schalk, C.M., C.G. Montaña, L.A. Fitzgerald. *In review*. Species packing, functional traits, and community organization of tropical frogs. *Oecologia*.
- Montaña, C.G., S. Silva^, D. Hagyar^, J. Wager*, L. Tiegs^, C. Sadeghian^, T.A. Schriever, C.M. Schalk. *In press*. Revisiting ‘What do tadpoles really eat?’: A ten-year perspective. *Freshwater Biology*.
- Lutterschmidt, W.I., J.M. Weidler^, C.M. Schalk. *In press*. Hot moments and hot spots in the bayou: Patterns of road occurrence in a Louisiana snake assemblage. *Herpetological Conservation and Biology*.

- Matich, P., **C.M. Schalk**. 2019. Move it or lose it: interpecific variation in risk response of pond-breeding anurans. *PeerJ*. e6956.
- Ebert, S.E.*, K.L. Jobe*, **C.M. Schalk**, D. Saenz, C.K. Adams, C.E. Comer. 2019. Correlates of snake entanglement in erosion control blankets. *Wildlife Society Bulletin*. 43:231-237.
- Kulhavy, D., **C.M. Schalk**, R. Viegut*, D. Unger, S. Shockley*, and I. Hung. 2019. Using unmanned aircraft systems (UAS) to quantify mistletoe in urban environments. *Urban Naturalist*. 20:1-10.
- Schalk, C.M.**, M.V. Cove. 2018. Squamates as prey: Predator diversity patterns and predator-prey size relationships. *Food Webs*. e00103.
- Schalk, C.M.**, C.G. Montaña, K. Kralman*, D.J. Leavitt. 2018. Functional distance and establishment of non-native species with complex life cycles. *Biological Invasions*. 20:1945-1952.
- Montaña, C.G., **C.M. Schalk**. 2018. Correlates of elemental-isotopic composition of stream fishes: The importance of land-use, species identity, and body size. *Journal of Fish Biology*. 92: 944-960.
- Schalk, C.M.**, T. Trees, J.B. Pierce, D.C. Rudolph. 2018. Food habits of sympatric pitvipers of the Western Gulf Coastal Plain, USA. *Herpetological Review*. 49:1-5.
- Leavitt, D.J., **C.M. Schalk**. 2018. Functional perspectives on the dynamics of desert lizard assemblages. *Journal of Arid Environments*. 150:34-41.
- Ceneviva-Bastos, M., C.G. Montaña, **C.M. Schalk**, L. Casatti, P.B. Carmargo. 2017. Responses of aquatic food webs to the addition of structural complexity and basal resource diversity in degraded Neotropical streams. *Austral Ecology*. 42:908-919.
- Schalk, C.M.**, C.G. Montaña, K.O. Winemiller, L.A. Fitzgerald. 2017. Trophic plasticity, environmental gradients, and food-web structure of tropical pond communities. *Freshwater Biology*. 62:519-529.
- Sosa, R. *, **C.M. Schalk**. 2016. Seasonal activity and species habitat guilds influence road–kill patterns of Neotropical snakes. *Tropical Conservation Science*. 9:1-12.
- Schalk, C.M.** 2016. Predator-induced phenotypic plasticity in an arid-adapted tropical tadpole. *Austral Ecology*. 41:415-422.
- Luhring, T.M., G.M. Connette, **C.M. Schalk**. 2016. Trap characteristics result in size-biased sampling of two salamander species. *Amphibia-Reptilia*. 37:79-89.
- Schalk, C.M.**, D. Saenz. 2016. Environmental drivers anuran calling phenology in a seasonal Neotropical ecosystem. *Austral Ecology*. 41:16-27.
- Layman, C.A., S.T. Giery, S. Buhler, R. Rossi, T. Penland, M.N. Henson, A.K. Bogdanoff, M.V. Cove, A.D. Irizarry, **C.M. Schalk**, S.K. Archer. 2015. A primer on the history of food web ecology: Fundamental contributions of fourteen researchers. *Food Webs*. 4:14-24.
- Schalk, C.M.**, C.G. Montaña, L.E. Springer*. 2015. Morphological diversity and community organization of desert anurans. *Journal of Arid Environments*. 122:132-140.
- Schalk, C.M.**, L.A. Fitzgerald. 2015. Ontogenetic shifts in ambush site selection of a sit-and-wait predator, the Chacoan Horned Frog (*Ceratophrys cranwelli*). *Canadian Journal of Zoology*. 93:461-467.
- Schalk, C.M.**, C.G. Montaña, J.L. Klemish, E.R. Wild. 2014. On the diet of the frogs of the Ceratophryidae: Synopsis and new contributions. *South American Journal of Herpetology*. 9:90-105.
- Schalk, C.M.**, M. Sezano*. 2014. Observations on the use of tarantula burrows by the anurans

- Leptodactylus bufonius* (Leptodactylidae) and *Rhinella major* (Bufonidae) in the Dry Chaco ecoregion of Bolivia. *Acta Herpetologica*. 9:99-102.
- Schalk, C.M.**, C.G. Montaña, M. Libson*. 2014. Reproductive strategies of two Neotropical killifish, *Austrolebias vanderbergi* and *Neofundulus ornatipinnis* (Cyprinodontiformes: Rivulidae) in the Bolivian Gran Chaco. *Revista de Biología Tropical*. 62:109-117.
- Schalk, C.M.**, M. Senzano*, R.L. Cuellar. 2013. Inventory of the reptiles and amphibians from a locality in the Kaa-Iya of the Gran Chaco National Park, Bolivia. *Kempffiana*. 9:26-33.
- Montaña, C.G., **C.M. Schalk**, D.C. Taphorn. 2012. First record of Van den Berg's Pearlfish, *Austrolebias vanderbergi* (Huber 1995) in Bolivia with comments on its diet and reproductive biology. *Check List*. 8:589-591.
- Patrick, D.A., **C.M. Schalk**, J.P. Gibbs, H.W. Woltz. 2010. Effective culvert placement and design to facilitate passage of amphibians across roads. *Journal of Herpetology*. 44:618-626.
- Schalk, C.M.**, T.M. Luhring, B.A. Crawford. 2010. Summer microhabitat use of the greater siren (*Siren lacertina*) and two-toed amphiuma (*Amphiuma means*) in an isolated wetland. *Amphibia-Reptilia*. 31:251-256.
- Schalk, C.M.**, T.M. Luhring. 2010. Vagility of aquatic salamanders: implications for wetland connectivity. *Journal of Herpetology*. 44:104-109.

NOTES AND SPECIES ACCOUNTS (* = Undergraduate Student, ^ = Graduate Student)

- Thompson, D.W.*, C.S. Adams^, C.M. Schalk. *In review*. *Farancia abacura* (Red-bellied Mudsucker) Overland Movement. *Herpetological Review*.
- Childress, J., C.K. Adams, D. Saenz, **C.M. Schalk**. *In review*. Bronze frog (*Lithobates clamitans*) entanglement and mortality in an erosion control blanket. *Collinsorum*.
- Garcia, N.*, **C.M. Schalk**. *In review*. *Incilius nebulifer* (Gulf Coast Toad). Polymelia. *Herpetological Review*.
- Koenig, J.R.*, K.L. Jobe*, S.E. Ebert*, C.S. Adams^, **C.M. Schalk**. *In press*. *Liodytes rigida* (Glossy Swampsucker). Geographic Distribution. *Herpetological Review*.
- Sosa, R., M. Senzano, **C.M. Schalk**. *In press*. *Micrurus pyrrhocryptus*. Feeding Habits. *Herpetological Review*.
- Daza, J.D., L. Price, **C.M. Schalk**, A.M. Bauer, A.R. Borman, J.K. Peterhans. 2017. Predation on Southern Turnip-tailed geckos (*Thecadactylus solimoensis*) by a Spectacled Owl (*Pulsatrix perspicillata*). *Cuadernos de Herpetología*. 31:37-39.
- Schalk, C.M.**, D.J. Leavitt. 2017. *Leptodactylus bufonius*. *Catalogue of American Amphibians and Reptiles*. 905:1-22.
- Springer, L.E.*, **C.M. Schalk**. 2016. *Lepidobatrachus laevis*. *Catalogue of American Amphibians and Reptiles*. 904:1-16.
- Schalk, C.M.** 2016. *Rhinella major* and *Rhinella schneideri* (Granular and Rococo Toad). Reproductive Behavior. *Herpetological Review*. 47:120-121.
- Schalk, C.M.** 2015. *Physalaemus nattereri* (Cuyaba Dwarf Frog) Tadpole Diet. *Herpetological Review*. 46:613-614.
- Sosa, R.*, **C.M. Schalk**, L. Braga*, J.N. Pinto-Ledezema. 2015. *Rhinella amboroensis*. Geographic Distribution. *Herpetological Review*. 46:214.
- Sosa, R.*, **C.M. Schalk**, L. Braga*, A.M. Langer. 2015. *Apostolepis multicincta*. Diet. *Herpetological Review*. 46:99.
- Romano, T.J.*, D.J. Leavitt, **C.M. Schalk**, D.E. Dittmer, L.A. Fitzgerald. 2014. Vertebrate by-

- catch of pipeline trenches in the Mescalero-Monahans shinnery sands of southeastern New Mexico. *The Prairie Naturalist*. 46:95-96.
- Montaña, C.G., M. Ceneviva-Bastos, **C.M. Schalk**. 2014. New vertebrate prey for the aquatic salamander *Amphiuma means* (Caudata: Amphiumidae). *Herpetology Notes*. 7:755-756.
- Sosa, R.*, L. Braga*, **C.M. Schalk**, J.N. Pinto-Ledezma. 2013. *Philodryas psammophidea* (Günther's green racer) Diet. *The Herpetological Bulletin*. 124:24.
- Senzano, M.*, **C.M. Schalk**. 2013. *Leptodactylus bufonius* (Oven Frog) Predation. *Herpetological Review*. 44:293-294.
- Schalk, C.M.**, D. Ticona*. 2013. *Rhinella schneideri* (Rococo Toad) Breeding Site. *Herpetological Review*. 44: 299-300.
- Sosa, R.*, L. Braga*, **C.M. Schalk**, J.N. Pinto-Ledezma. 2013. *Micrurus serranus* (Coral Verdadera) Diet. *Herpetological Review*. 44:155.
- Sosa, R.*, L. Braga*, **C.M. Schalk**, J.N. Pinto-Ledezma. 2012. *Clelia langeri* Diet. *Herpetological Review*. 43:657.
- Schalk, C.M.** 2012. *Pleurodema guayapae*. Egg Predation. *Herpetological Review*. 43: 635.
- Schalk, C.M.**, F. Morales*. 2012. Predation of a *Rhinella major* (Anura: Bufonidae) by a Pampas Fox (*Lycalopex gymnocercus*) in the Bolivian Gran Chaco. *Herpetology Notes*. 5: 369-370.
- Schalk, C.M.**, C.G. Montaña. 2012. *Liophis poecilogyrus* (Yellow-bellied Liophis) Diet and Foraging Behavior. *Herpetological Review*. 43:148.
- Schalk, C.M.** 2012. *Physalemus biligonigerus* (NCN) Burrow Use. *Herpetological Review*. 43:123-124.
- Acre, M. R., Leavitt, D. J., **C. M. Schalk**. 2012. A second occurrence of a patternless morph of the marbled whiptail (*Aspidoscelis marmorata*) in New Mexico. *Southwestern Naturalist*. 57:206-207.
- Schalk, C.M.**, C.G. Montaña. 2011. *Ceratophrys cranwelli* (Cranwell's Horned Frog) Diet. *Herpetological Review*. 42:409-410.
- Schalk, C.M.** 2010. *Ceratophrys cranwelli* (Cranwell's Horned Frog) Diet. *Herpetological Review*. 41:471.
- Schalk, C.M.** 2010. *Philodryas mottogrossensis* (Two-colored Racer) Diet. *Herpetological Review*. 41:372.
- Schalk, C.M.** 2010. *Liophis poecilogyrus* (Yellow-bellied Liophis) Diet. *Herpetological Review*. 41:366-367.
- Schalk, C.M.** 2010. *Physalaemus biligonigerus* (NCN) Predation. *Herpetological Review*. 41:202.
- Schalk, C.M.**, B.A. Crawford, T.M. Luhring. 2009. A note on predation of the Greater Siren (*Siren lacertina*). *Bulletin of the Chicago Herpetological Society*. 44:56.

TECHNICAL REPORTS AND OTHER PUBLICATIONS

- Ebert, S.E., **C. M. Schalk**, D. Saenz. 2019. Risk of wildlife entanglement in erosion control blankets. Texas Parks and Wildlife Department.
- Schalk, C.M.**, M.A. Kwiatkowski, D. Saenz, S.J. Mullin. 2018. Herpetology at Stephen F. Austin State University. *Herpetological Review*. 49:779-781.
- Schalk, C.M.**, D. Saenz, S.E. Ebert, K.L. Jobe, C.K. Adams, C.E. Comer. 2018. Field and experimental assessments of the impact of erosion control materials on wildlife. Texas Parks and Wildlife Department.

- Schalk, C.M.** 2012. A study of the aquatic communities and food webs in lentic systems of the Bolivian Gran Chaco. Submitted to: Noel Kempff Mercado Museum of Natural History, Santa Cruz, Bolivia. (In Spanish)
- Schalk, C.M.** 2012. The indirect effects of predators on the growth and development on the tadpoles of *Leptodactylus bufonius*. Submitted to: Kaa-Iya of the Gran Chaco National Park, Santa Cruz, Bolivia. (In Spanish).
- Patrick, D.A., J.P. Gibbs, D.J. Leopold, P.K. Ducey, H.W. Woltz, D. Crane, F. Beaudry, D.V. Popescu, **C.M. Schalk**. 2011 Effects on New York State Roadways on Amphibians and Reptiles: A Research and Adaptive Mitigation Project. NSYDOT Report Project.
- Smolensky, N., **C.M. Schalk**, T.J. Hibbitts. 2010. Natural History of the Vertebrates Laboratory Manual (WFSC 302). Texas A&M University.

GRANTS AND FELLOWSHIPS (Total secured = \$670,576)

- 2019.** Wildlife Acoustics. Avian diversity along a forest structural gradient in seasonally flooded bottomland hardwood forests. (\$4,924). PI. Co-PI: K.R. Kidd. *Submitted*
- 2019.** Stephen F. Austin State University Publication Support Grant. (\$499). *Funded*.
- 2019.** Stephen F. Austin State University Research Grant Development Award. (\$5,000). *Funded*. PI.
- 2019.** Wildlife Acoustics. Avian diversity along a forest structural gradient in seasonally flooded bottomland hardwood forests. (\$4,924). Co-PI with K.R. Kidd (PI). *Not funded*.
- 2019.** Texas Parks and Wildlife Department. Distribution, occupancy, and mercury bioaccumulation of Alligator Snapping Turtles (*Macrochelys temminckii*) in Texas. (\$150,878). PI. Co-PI: D. Saenz. *Funded*.
- 2019.** Texas Parks and Wildlife Department. Ground truthing the species distribution model of Bachman's Sparrow. (\$148,741). PI. Co-PIs: D. Saenz, C. Shackelford. *Funded*.
- 2019.** Texas Department of Transportation and Texas Parks and Wildlife Department. Risk of snake entanglement in erosion control materials. (\$34,935). PI. *Funded*.
- 2018.** Sustainable Forestry Initiative (SFI). Novel riparian forest regeneration methods to manage SMZs for water quality protection, biodiversity, and ecological resilience. (\$90,587). Co-PI with K.R. Kidd (PI), J. Stovall, D. Scognamillo, M. McBroom. *Not funded*.
- 2018.** U.S. Forest Service, Addendum to: Examining terrestrial food-web structure in managed and unmanaged Shortleaf Pine forests in East Texas. (\$10,000). PI. *Funded*.
- 2018.** Texas Parks and Wildlife Department. Conservation status of fish communities in La Nana Bayou, East-Central Texas: Historical and current perspectives of native imperiled species following the introduction of non-native species. (\$50,000). Co-PI with C.G. Montaña (PI), D. Peterson, K. Mayes. *Not funded*.
- 2018.** U.S. Department of Agriculture - McIntire-Stennis Capacity Grant. Mechanisms of community assembly in southern forest ecosystems (\$25,000). PI. *Funded*.
- 2018.** Texas Parks and Wildlife Department. Ground truthing the species distribution model of Bachman's Sparrow. (\$150,785). PI. Co-PIs: C. Comer, D. Saenz, C. Shackelford. *Not funded*.
- 2018.** U.S. Forest Service. Examining terrestrial food-web structure in managed and unmanaged Shortleaf Pine forests in East Texas. (\$54,000). PI. *Funded*.
- 2017.** Stephen F. Austin State University Research and Creative Activities Grant. Examining terrestrial food-web structure in managed and unmanaged forests in East Texas.

- (\$19,511). PI. *Funded*.
- 2017.** Texas Parks and Wildlife Department. Field and experimental assessments of the impact of erosion control materials on wildlife. (\$29,768). PI. Co-PIs: C. Comer and D. Saenz. *Funded*.
- 2017.** T.L.L. Temple Foundation. Examining food-web structure and energy flow in managed Shortleaf Pine ecosystems. (\$54,006). Co-PI with D. Saenz. *Not funded*.
- 2016.** Experiment.com. An Adaptive Radiation Under Our Feet? Examining Diversification Patterns in New World Leaf-litter Geckos. (\$2,471). Co-PI with J.D. Daza and T. Gamble. *Funded*.
- 2016.** EURECA FAST Grant, Sam Houston State University. Effects of climate warming on tadpole feeding, growth and waste production: implications for ecosystem functioning. (\$8,000). Co-PI with C.G. Montaña and C.W. Hargrave. *Funded*.
- 2013.** Travel Grant, Ecology & Evolutionary Biology Program, Texas A&M University. (\$1,000). *Funded*.
- 2011.** GPEF Travel Grant, Department of Wildlife and Fisheries Sciences, Texas A&M University. (\$273). *Funded*.
- 2010.** National Science Foundation Graduate Research Fellowship (NSF-GRFP; \$100,500). *Funded*.
- 2008.** National Science Foundation Integrated Graduate Education and Research Traineeship (NSF-IGERT) Applied Biodiversity Science Program at Texas A&M University (\$80,000). *Funded*.

TEACHING EXPERIENCE

Stephen F. Austin State University, Arthur Temple College of Forestry and Agriculture

Vertebrate Natural History (Fall 2017, Spring 2018, Fall 2018, Spring 2019; Fall 2019)

Wildlife Techniques (Spring 2018, Spring 2019)

Field Wildlife Techniques (Summer 2018; Summer 2019)

Amphibian Experimental Ecology (Spring 2018, Spring 2019; Fall 2019)

Amphibian Ecology and Conservation (Fall 2018; Fall 2019)

Sam Houston State University, Department of Biological Sciences

Contemporary Biology (Spring 2016, Spring 2017)

Herpetology (Spring 2016)

Community Ecology (Spring 2017)

Texas A&M University, Department of Wildlife and Fisheries Sciences

Ornithology (Spring 2010)

Natural History of the Vertebrates (Fall 2010)

SUNY-ESF, Department of Environmental and Forest Biology

Herpetology (Fall 2007)

GRADUATE STUDENT MENTORING

Graduate Advisor

2018-Present. Connor Adams, M.S. Student, (ATCOFA, SFASU) *Project:* Food-web and functional trait community structure in east Texas pine forests with varied management regimes.

Committee Member

2018-Present. McKenzie Wasley, M.S. Student, (Department of Biology, SFASU).

2018-Present. **Ashley Kobisk**, M.S. Student, (Department of Biology, SFASU).

2018. **Courtney McInnerney**, M.S. Student (ATCOFA, SFASU).

UNDERGRADUATE STUDENT MENTORING

2019-Present. **John-Mike Arnett** (SFASU) *Project*: Niche partitioning among introduced and native lizards.

2019-Present. **Krista Ward** (SFASU) *Project*: Installation method and snake entanglement in erosion control blankets. *Outcome*: Two poster presentations.

2018-Present. **Kasey Jobe** (SFASU) *Project*: Predators diversity and size relationships in salamanders. *Outcome*: Two poster presentations. **Best undergraduate poster, Terrestrial Ecology and Management section; 2nd best overall undergraduate poster at Texas Academy of Science Annual Meeting.**

2018-Present. **Sarah Ebert** (SFASU) *Project*: Impacts of erosion control materials on wildlife. *Outcome*: Co- authored publication. Poster presentation and three oral presentations. **Best undergraduate talk, Conservation Ecology section; and 2nd best overall undergraduate talk at Texas Academy of Science Annual Meeting.**

2018-Present. **Nick Schiwitz** (SFASU) *Project*: Quantifying activity levels in larval anurans and snake entanglement in erosion control blankets. *Outcome*: Two poster presentations and three oral presentations. (**Awarded Top Scholar – ATCOFA**).

2018-2019. **Hailey Hester** (SFASU) *Project*: Descriptions Bolivian frog calls. *Outcome*: Two poster presentations.

2016–2018. **Clay Laughrey** (SHSU) *Project*: Species co-occurrence patterns across pond microhabitats. *Outcome*: Successfully funded grant proposals, Poster presentation at SHSU Undergraduate Research Symposium (**Awarded best poster**).

2016–2017. **Kelsey Kralman** (SHSU) *Project*: Functional perspectives on frog invasions. *Outcome*: Poster presentation at SHSU Undergrad Research Symposium, Co-authored publication.

2013–2016. **Ronald Sosa** (Universidad Autonoma Gabriel Rene Moreno) *Licenciatura Thesis*: Road-kill patterns of Neotropical snakes. *Outcome*: Co-authored six publications.

2012–2013. **Laura Springer** (TAMU) *Project*: Morphological diversity of Chihuahuan Desert anurans and *Lepidobatrachus laevis* Catalogue Account. *Outcome*: Co-authored two publications, Poster presentation at TAMU Ecological Integration Symposium (**Awarded 2nd place best poster**).

2012. **Marco Senzano** (Universidad Autonoma Gabriel Rene Moreno) *Licenciatura Thesis*: Diet of Chaco frogs. *Outcome*: Co-authored three publications.

2011–2012. **Monika Libson** (TAMU) *Project*: Reproductive biology Chaco killifish. *Outcome*: Poster presentation at TAMU Ecological Integration Symposium (**Awarded best poster**), Co-authored publication.

2010–2012. **Doris Ticona** (Universidad Autonoma Gabriel Rene Moreno) *Licenciatura Thesis*: Community structure of macroinvertebrates in Chaco ponds. *Outcome*: Co-authored publication.

2009–2010. **Olivia Ochoa** (TAMU) *Project*: Ontogenetic vulnerability of tadpoles to predation. *Outcome*: Successfully funded grant proposal.

HONORS AND AWARDS

- 2017. Distinguished Graduate Student**, Association of Former Students, Texas A&M University.
- 2013. Outstanding PhD. Student**, Department of Wildlife and Fisheries Sciences, Texas A&M University.
- 2009. Honorable Mention**, The National Science Foundation's Graduate Research Fellowship Program.
- 2008. Class Co-Valedictorian**, SUNY-ESF.

MEDIA

- 2019.** The Wildlife Society, Washington D.C. "Erosion blankets can tie snakes into knots" 17 July 2019. <https://wildlife.org/wsb-erosion-blankets-can-tie-snakes-into-knots/>
- 2019.** ATCOFA, Nacogdoches, TX. "Living alongside snakes in East Texas" 13 May 2019. <https://www.youtube.com/watch?v=MbgajTgmwjl&t=25s>
- 2018.** Texas Parks and Wildlife Magazine, Austin, TX. "How did the wildlife cross the road?". October 2018 Issue. Pp 42-47.
- 2018.** KTRE News, Lufkin, TX. "Nacogdoches researchers look for snake-friendly construction mesh". Aired 23 August 2018. <http://www.ktre.com/story/38951343/nacogdoches-researchers-look-for-snake-friendly-construction-mesh>
- 2018.** KETK News, Tyler, TX. "Grant awarded to East Texas researchers to save snakes". Aired 21 August 2018. <https://www.easttexasmatters.com/news/local-news/grant-awarded-to-east-texas-researchers-to-save-snakes/1386389492>
- 2018.** SFA News, Nacogdoches, TX. "Researchers receive Texas Parks and Wildlife grant devoted to wildlife conservation." Posted 20 August 2018. <http://www.sfasu.edu/10028.asp>
- 2018.** ATCOFA, Nacogdoches, TX. "Schalk Snake Research" 28 June 2018. <https://www.youtube.com/watch?v=3ZA-w195ass&t=175s>
- 2018.** KETK News, Tyler, TX. "Alligator gar myths, misconceptions". Aired 15 June 2018.
- 2018.** KTRE News, Lufkin, TX. "Citizens can help SFA scientists in Roadkill of Texas Project" Aired 1 March 2018. <http://www.ktre.com/story/37628171/citizens-can-help-sfa-scientists-in-roadkill-of-texas-project>

INVITED TALKS

- 2019.** Community organization and conservation of snakes in the Piney Woods of East Texas. Department of Forestry, Beihua University, Jilin City, China.
- 2016.** Community assembly of Neotropical frogs across ecological scales. Department of Biological Sciences, Sam Houston State University, Huntsville, TX.
- 2016.** Community assembly of Neotropical frogs across ecological scales. Forensic Laboratory for Investigative Entomological Sciences. Texas A&M University. College Station, TX.
- 2014.** Patrones de las comunidades de un gremio de anuros tropicales. Primero Congreso Paraguayo de Herpetología, Asociación Paraguaya de Herpetología, Asuncion, Paraguay.
- 2014.** Ecology and Conservation of Giant Salamanders (*Siren* and *Amphiuma*). North Carolina Herpetological Society Fall Meeting. Raleigh, NC.

CONFERENCE ACTIVITY/PARTICIPATION

Conference Organized

2010. 11th Annual Ecological Integration Symposium: Understanding Patterns and Processes Across Scales. Texas A&M University, College Station, TX.

Oral Presentations (* = Undergraduate Student, ^ = Graduate Student)

- 2019.** C.S. Adams[^], **C.M. Schalk**, D. Saenz. Community organization of a snake guild in shortleaf pine forests. Southwestern Partners in Amphibian and Reptile Conservation. Rodeo, NM.
- 2019.** S.E. Ebert*, K.L. Jobe*, **C.M. Schalk**, D. Saenz, C.K. Adams, C.E. Comer. Correlates of snake entanglement in erosion control blankets. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.
- 2019.** **Schalk, C.M.**, M.V. Cove. Squamates as prey: Predator diversity patterns and predator-prey size relationships. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.
- 2019.** N.C. Schiwitz*, **C.M. Schalk**, D. Saenz. Activity level and predation risk in a tadpole guild: Implications for species' distributions along the hydroperiod gradient. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.
- 2019.** K.L. Jobe*, C.G. Montaña, **C.M. Schalk**. Caudates as prey: Predator diversity and size-relationship patterns. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.
- 2019.** C.S. Adams[^], D. Saenz, **C.M. Schalk**. Community organization of a snake guild in shortleaf pine forests. Ecological Integration Symposium. College Station, TX.
- 2019.** S.E. Ebert*, K.L. Jobe*, **C.M. Schalk**, D. Saenz, C.K. Adams, C.E. Comer. Correlates of snake entanglement in erosion control blankets. Ecological Integration Symposium. College Station, TX. **Tied first place - best undergraduate oral presentation.**
- 2019.** S.E. Ebert*, K.L. Jobe*, **C.M. Schalk**, D. Saenz, C.K. Adams, C.E. Comer. Correlates of snake entanglement in erosion control blankets. Texas Academy of Science, Brownwood, TX. **Best undergraduate paper presentation, Conservation Ecology section; 2nd best undergraduate presentation overall.**
- 2019.** C.S. Adams[^], D. Saenz, **C.M. Schalk**. Community organization of a snake guild in shortleaf pine forests. Texas Chapter of the Wildlife Society. Montgomery, TX.
- 2019.** S.E. Ebert*, K.L. Jobe*, **C.M. Schalk**, D. Saenz, C.K. Adams, C.E. Comer. Correlates of snake entanglement in erosion control blankets. Texas Chapter of the Wildlife Society. Montgomery, TX.
- 2019.** N.C. Schiwitz*, **C.M. Schalk**, D. Saenz. Activity level and predation risk in a tadpole guild: Implications for species' distributions along the hydroperiod gradient. Texas Chapter of the Wildlife Society. Montgomery, TX.
- 2019.** **C.M. Schalk**, C.P. Laughrey, L.M. Bower, C.G. Montaña. Species co-occurrence patterns along environmental gradients in pond microhabitats. Texas Chapter of the Wildlife Society. Montgomery, TX.
- 2018.** I. Hung, R.A. Viegut*, D. Kulhavy, **C.M. Schalk**, D. Unger. Using a DJI Phantom 4 Pro sUAS for Aerial Analysis of Mistletoe Plants in Nacogdoches, Texas. Society of American Foresters National Conference, Portland, OR.
- 2018.** R.A. Viegut*, D. Kulhavy, **C.M. Schalk**, I. Hung, D. Unger, S. Shockley. Mistletoe Plant Spatial Distribution Using a DJI Phantom 4 sUAS for iNaturalist and Safety in Nacogdoches, Texas. Texas International Society of Arboriculture, Waco, TX.

2018. Montaña, C.G., **C.M. Schalk**, T. Schriever, T. M. S. D. G. Silva, D. Hagyari, J. Wager, L. Tiegs, C. Sadeghian. Revisiting ‘What do tadpoles really eat?’: A ten-year perspective. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY.
2018. N.C. Schiwitz*, **C.M. Schalk**, D. Saenz. Interspecific variation in activity level of larval anurans: Implications for their distribution along the hydroperiod gradient. SFASU Undergraduate Research Conference, Nacogdoches, TX.
2018. C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**. Spatiotemporal patterns of larval amphibians along environmental gradients in pond microhabitats in East Texas. TAMU Ecological Integration Symposium, College Station, TX.
2018. **C.M. Schalk**, C.G. Montaña, K. Kralman*, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. Texas Chapter of the Wildlife Society. Dallas, TX.
2017. **C.M. Schalk**, C.G. Montaña, K. Kralman*, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.
2017. D.J. Leavitt, **C.M. Schalk**. Functional perspectives on the dynamics of desert lizard assemblages. Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.
2016. **C.M. Schalk**, D. Saenz. Dynamics in anuran calling phenology: implications for surveys and monitoring programs. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
2014. **C.M. Schalk**, D. Saenz. Abiotic drivers of anuran calling activity in a seasonal Neotropical environment. Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, TN.
2014. **C.M. Schalk**, C.G. Montaña, L.A. Fitzgerald, K.O. Winemiller. Trophic plasticity of tropical tadpoles along environmental gradients. The Statistics and Zoology Graduate Student Research Symposium, North Carolina State University, Raleigh, NC.
2013. **C.M. Schalk**, C.G. Montaña, L.A. Fitzgerald, K.O. Winemiller. Trophic plasticity of tropical tadpoles along environmental gradients. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM.
2013. **C.M. Schalk**, C.G. Montaña, L.A. Fitzgerald, K.O. Winemiller. Trophic plasticity of tropical tadpole ecomorphs. Ecological Integration Symposium, College Station, TX.
2011. **C.M. Schalk**. Community structure of tadpoles along environmental gradients in the Bolivian Gran Chaco. Ecological Society of America, Austin, TX.
2011. J.M. Taillon, **C.M. Schalk**. The application of biological conservation techniques for aguajals in southeastern Peru’s Madre de Dios Region. George Wright Society Conference: New Orleans, LA.
2010. J.M. Taillon, **C.M. Schalk**. The potential of aguajal concessions for profitable conservation in the Peruvian Amazon. Texas A&M University’s Ecological Integration Symposium, College Station, TX. **2nd place, Graduate Student Oral Competition.**
2009. **C.M. Schalk**. Mechanisms of community assembly in a guild of tropical anurans. Departmental Graduate Seminar, TAMU, College Station, TX
2008. **C.M. Schalk**. Microhabitat use of permanently aquatic salamanders in an isolated wetland. SREL REU Symposium, Aiken, SC.
2008. **C.M. Schalk**, T.M. Luhring. Dispersal capabilities of permanently aquatic salamanders; implications for wetland connectivity. Joint Meeting of Ichthyologists and Herpetologists. Montreal, Quebec, Canada.

2007. **C.M. Schalk**. Dispersal capability of permanently aquatic salamanders among isolated wetlands. SREL REU Symposium, Aiken, SC. SUNY-ESF Herpetology Class, Syracuse, NY.

Poster Presentations (* = Undergraduate Student, ^ = Graduate Student)

2019. D.W. Thompson*, C.S. Adams, D. Saenz, **C.M. Schalk**. Assessing the functional role of skinks (*Scincella lateralis*) in forest food webs. Southwestern Partners in Amphibian and Reptile Conservation. Rodeo, NM.

2019. C.G. Montaña, D. Peterson, **C.M. Schalk**. Historical and contemporary assessment of urban stream fish assemblages: taxonomic and functional perspectives. Joint Meeting of Ichthyologists and Herpetologists Snowbird, UT.

2019. N.C. Schiwitz*, K.L. Jobe*, K.J. Ward*, D. Saenz, **C.M. Schalk**. Does installation method affect snake entanglement in erosion control blankets? Joint Meeting of Ichthyologists and Herpetologists Snowbird, UT.

2019. K.L. Jobe*, N.C. Schiwitz*, K.J. Ward*, D. Saenz, **C.M. Schalk**. On the diversity of erosion control products: Implications for snake entanglement. Joint Meeting of Ichthyologists and Herpetologists Snowbird, UT.

2019. **C.M. Schalk**, W. I. Lutterschmidt, J.M. Weidler. Hot moments and hot spots in the bayou: Patterns of road occurrence in a Louisiana snake assemblage. Joint Meeting of Ichthyologists and Herpetologists Snowbird, UT.

2019. D.W. Thompson*, C.S. Adams, D. Saenz, **C.M. Schalk**. Assessing the functional role of skinks (*Scincella lateralis*) in forest food webs. Ecological Integration Symposium. College Station, TX.

2019. H.A. Hester*, **C.M. Schalk**, D. Saenz. Advertisement calls of eleven anuran species from the Bolivian Gran Chaco. Ecological Integration Symposium. College Station, TX. **Tied second place - best undergraduate poster presentation.**

2019. K.L. Jobe*, C.G. Montaña, **C.M. Schalk**. Caudates as prey: Predator diversity and size-relationship patterns. Ecological Integration Symposium. College Station, TX.

2019. C. Veloso*, C.G. Montaña, **C.M. Schalk**. Niche segregation among sunfishes (*Lepomis* spp.) in an East Texas urban stream. Ecological Integration Symposium. College Station, TX.

2019. E. Morag*, **C.M. Schalk**, C.G. Montaña. Fish taxonomic and functional diversity in an East Texas urban stream. Ecological Integration Symposium. College Station, TX.

2019. E. Morag*, C.G. Montaña, **C.M. Schalk**. Assessing historical fish community structure using taxonomic, functional, and historical-contemporary data. Association for the Sciences of Limnology and Oceanography. San Juan, Puerto Rico.

2019. K.L. Jobe*, C.G. Montaña, **C.M. Schalk**. Caudates as prey: Predator diversity and size-relationship patterns. Texas Academy of Science, Brownwood, TX. **Best undergraduate poster, Terrestrial Ecology and Management section.**

2019. H.A. Hester*, **C.M. Schalk**, D. Saenz. Advertisement calls of eleven anuran species from the Bolivian Gran Chaco. Texas Chapter of the Wildlife Society. Montgomery, TX.

2019. K.L. Jobe*, C.G. Montaña, **C.M. Schalk**. Caudates as prey: Predator diversity and size-relationship patterns. Texas Chapter of the Wildlife Society. Montgomery, TX.

2019. C.G. Montaña, E. Morag*, D. Peterson, **C.M. Schalk**. Long-term changes in a fish community from an East Texas urban stream: A 28-year perspective. Texas Chapter of the American Fisheries Society. Galveston, TX.

2019. C. Velsoso*, C.G. Montaña, **C.M. Schalk**. Niche segregation among sunfishes (*Lepomis* spp.) in an East Texas urban stream. Texas Chapter of the American Fisheries Society. Galveston, TX.
2018. R.A. Viegut*, D. Kulhavy, **C.M. Schalk**, I. Hung, D. Unger, S. Shockley. Spatial Analysis of Mistletoe Plants Using a DJI Phantom 4 sUAS for iNaturalist and Safety in Nacogdoches, Texas. Society of American Foresters National Conference, Portland, OR.
2018. R.A. Viegut*, D. Kulhavy, **C.M. Schalk**, I. Hung, S. Shockley. Using a Phantom 4 sUAS and iNaturalist for Safety and Spatial Analysis of Mistletoe Plants in Nacogdoches, Texas. Texas International Society of Arboriculture, Waco, TX.
2018. **C.M. Schalk**, N.C. Schiwitz*, D. Saenz. Activity level in a tadpole guild: Implications for their distribution along the hydroperiod gradient. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY.
2018. C.S. Adams^, **C.M. Schalk**, D. Saenz. Food-web and functional trait community structure along a land-use gradient in pine forests. SFASU Graduate Research Conference, Nacogdoches, TX
2018. N.C. Schiwitz*, **C.M. Schalk**, D. Saenz. Interspecific variation in activity level of larval anurans: Implications for their distribution along the hydroperiod gradient. TAMU Ecological Integration Symposium, College Station, TX.
2018. C.S. Adams^, **C.M. Schalk**, D. Saenz. Food-web and functional trait community structure along a land-use gradient in pine forests. TAMU Ecological Integration Symposium, College Station, TX.
2018. S. Ebert*, **C.M. Schalk**, D. Saenz, C. E. Comer. Experimental assessments on wildlife entanglement in erosion control products. TAMU Ecological Integration Symposium, College Station, TX.
2018. W. Alvarado*, C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**, J. Daza. Tail pigmentation in *Acris blanchardi* tadpoles along an environmental pond gradient. TAMU Ecological Integration Symposium, College Station, TX.
2018. K. Kralman*, C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**. Temporal variation in population structure of Western Mosquito Fish (*Gambusia affinis*) in an East Texas wetland. TAMU Ecological Integration Symposium, College Station, TX.
2018. **C.M. Schalk**, C.G. Montaña, K. Kralman*, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. SFASU's Symposium on Arts and Research. Nacogdoches, TX.
2018. **C.M. Schalk**, D. Kulhavy, D. Unger, I. Hung. At the road's edge: A citizen science project documenting Texas roadkills. SFASU's Symposium on Arts and Research. Nacogdoches, TX.
2018. **C.M. Schalk**. Using iNaturalist to learn about vertebrates. Biennial Conference on University Education in Natural Resources. Nacogdoches, TX.
2017. C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**, K. Kralman*. Distribution of larval amphibians along environmental gradients in pond microhabitats. Joint Meeting of Ichthyologists and Herpetologists. Austin, TX
2017. C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**, K. Kralman*. Species co-occurrence patterns along environmental gradients in pond microhabitats. SHSU's Undergraduate Research Symposium, Huntsville, TX. **Awarded best poster.**
2017. K. Kralman*, C.G. Montaña, **C.M. Schalk**, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. SHSU's Undergraduate

- Research Symposium, Huntsville, TX.
- 2017.** C.P. Laughrey*, C.G. Montaña, **C.M. Schalk**, K. Kralman*. Species co-occurrence patterns along environmental gradients in pond microhabitats. TAMU Ecological Integration Symposium, College Station, TX.
- 2017.** K. Kralman*, C.G. Montaña, **C.M. Schalk**, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. TAMU Ecological Integration Symposium, College Station, TX.
- 2016.** **C.M. Schalk**, M.V. Cove. Emergent patterns between squamate prey and their predators. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- 2016.** K. Kralman*, C.G. Montaña, **C.M. Schalk**, D.J. Leavitt. Non-native species and novel niches: Using morphology to understand ecological invasions. SHSU's Undergraduate Research Symposium, Huntsville, TX.
- 2016.** C.G. Montaña, C.A. Layman, **C.M. Schalk**. Interspecific and intraspecific variation in stoichiometry of four central North Carolina stream fishes. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- 2016.** **C.M. Schalk**, D. Saenz. Inter-annual and intra-annual dynamics in anuran calling phenology: implications for surveys and monitoring programs. Southeastern Partners in Amphibian and Reptile Conservation. Nauvoo, AL.
- 2014.** **C.M. Schalk**, C.G. Montaña, N. Smolensky. Intercontinental convergence of arid-adapted anurans. Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, TN.
- 2014.** **C.M. Schalk**, C.G. Montaña. Community assembly of anurans in the Bolivian Gran Chaco: A morphological approach. The Statistics and Zoology Graduate Student Research Symposium, North Carolina State University, Raleigh, NC.
- 2013.** **C.M. Schalk**, C.G. Montaña. Community assembly of anurans in the Bolivian Gran Chaco: A morphological approach. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM.
- 2013.** L. Springer*, **C.M. Schalk**, C.G. Montaña, A. Fields*. Morphological diversity of Chihuahuan Desert anurans. Ecological Integration Symposium, College Station, TX. **Awarded 2nd place, Best Undergraduate Poster.**
- 2012.** **C.M. Schalk**. Tadpole community structure along environmental gradients in the Bolivian Gran Chaco. World Congress of Herpetology, Vancouver, British Columbia, Canada.
- 2012.** M. Libson*, C.G. Montaña, **C.M. Schalk**. Reproductive biology of two annual killifishes in the Bolivian Gran Chaco. TAMU Ecological Integration Symposium, College Station, TX. **Awarded 1st place, Undergraduate Poster.**
- 2011.** **C.M. Schalk**, C.G. Montaña. Community structure of ponds along environmental gradients in the Bolivian Gran Chaco. TAMU Ecological Integration Symposium, College Station, TX.
- 2009.** **C.M. Schalk**, L.A. Fitzgerald. Scaling of ecological communities in altered and conserved landscapes. NSF-IGERT Principle Investigator's Annual Meeting, Alexandria, VA and Texas Herpetological Society's Fall Meeting, College Station, TX.
- 2008.** **C.M. Schalk**, T.M. Luhring. Dispersal capabilities of permanently aquatic salamanders; implications for wetland connectivity. SUNY-ESF Spotlight on Student Research. **Awarded best poster.**

SERVICE TO PROFESSION

Associate Editor, *Herpetological Review*, 2016 – Present.

Reviewer: Acta Oecologica (2016), American Midland Naturalist (2014, 2015), Austral Ecology (2017), Biological Journal of Linnean Society (2016), Biotropica (2015), Conservation Biology (2014), Diversity and Distributions (2018), Ecology (2019), Food Webs (2017, 2018), Freshwater Science (2018), Herpetological Conservation and Biology (2011, 2018), Herpetological Review (2014, 2017), Integrative Zoology (2016), Herpetologica (2016, 2019), Journal of the Arkansas Academy of Science (2010), Journal of Herpetology (2011, 2013, 2015, 2017), Journal of Natural History (2016), Journal of Tropical Ecology (2013), Oecologia (2014), PeerJ (2015, 2016, 2018), Phyllomedusa (2015), Revista de Biología Tropical (2013), Scientific Reports (2017), South American Journal of Herpetology (2017, 2018, 2019), Southwestern Naturalist (2018), The Herpetological Journal (2014), Tropical Conservation Science (2015, 2018, 2019).

COLLEGE AND UNIVERSITY SERVICE

- 2019. Assistant Professor of Human Dimensions of Natural Resources Search Committee, ATCOFA, SFASU.**
- 2019. Resume Workshop Faculty Panel, ATCOFA, SFASU.**
- 2018-Present. University IACUC Committee, SFASU.**
- 2018-2019. Texas Envirothon Organizing Committee, ATCOFA, SFASU.**
- 2018. Professional Development Workshop Speaker, Introduction to NSF's Graduate Research and Fellowship Program, SFASU.**
- 2018. Assistant Professor of Forest Wildlife Management Search Committee, ATCOFA SFASU**
- 2018-Present. Undergraduate Research/Creative Discovery Advisory Committee, SFASU**
- 2018-Present. Scoring Team Committee, SFASU.**
- 2018. Leaders of Tomorrow Speaker, ATCOFA, SFASU.**
- 2017-Present. Faculty Co-Advisor, The Wildlife Society Student Chapter, ATCOFA, SFASU.**
- 2017-2018. Agricultural Pond Signage Committee. SFASU**
- 2017. Resume Workshop Faculty Panel, ATCOFA, SFASU.**
- 2017. Root Camp, ATCOFA, SFASU.**
- 2017. Professional Development Workshop Speaker, Introduction to NSF's Graduate Research and Fellowship Program, SFASU.**
- 2016. Professional Development Workshop Speaker, Introduction to NSF's Graduate Research and Fellowship Program, SHSU.**
- 2012-2013. Secretary, Ecology & Evolutionary Biology Student Organization, TAMU.**
- 2012-2013. Awards Committee Student Representative, Department of Wildlife and Fisheries Sciences, TAMU.**
- 2010. Co-chair Ecological Integration Symposium Organizing Committee, TAMU**
- 2010. Student Representative, Selection Committee, Applied Biodiversity Science NSF-IGERT Program, TAMU.**

FIELD RESEARCH

United States: New Mexico, New York, North Carolina, South Carolina, Texas
International: Bolivia, Mexico, Paraguay, Peru, Venezuela

LANGUAGES

English (Native)

Spanish (Intermediate Proficiency)

PROFESSIONAL AFFILIATIONS

Society for the Study of Amphibians and Reptiles

Herpetologists' League

Southeastern Partners in Amphibian and Reptile Conservation

Texas Chapter of the Wildlife Society