

CURRICULUM VITAE

CARMEN G. MONTAÑA-SCHALK

Department of Biology

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EDUCATION

Ph.D. Wildlife and Fisheries Sciences –2012– Texas A&M University, College Station, TX

Dissertation title: Species assemblage structure and ecomorphological convergence in perciform fishes (Cichlidae and Centrarchidae) in tropical and temperate floodplain rivers

MSc. Wildlife and Fisheries Management – 2004– Universidad Nacional de los Llanos

Occidentales Ezequiel Zamora, Venezuela (National University of the Western Plains Ezequiel Zamora, Venezuela)

B.A. Environmental Sciences, major Natural and Renewal Resources – 2001– Universidad Nacional de los Llanos Occidentales Ezequiel Zamora (UNELLEZ), Venezuela

PROFESSIONAL EXPERIENCE

Assistant Professor, Fall 2019 - Present– Department of Biology, Stephen F. Austin State University, Nacogdoches, TX

Assistant Professor and Associate Curator of Ichthyology, Fall 2018–Summer 2019 –Department of Biological Sciences, Sam Houston State University (SHSU). Huntsville, TX

Visiting Assistant Professor, August 2015 - May 2018– Department of Biological Sciences, SHSU

Post-Doctoral Research Associate, August 2013 - July 2015 – Department of Applied Ecology, North Carolina State University, NC

Post-Doctoral Research Associate, August 2012 - July 2013 –Department of Wildlife and Fisheries, Texas A&M University, TX

Fisheries Consultant Specialist, 2006 –National Institute of Fisheries and Aquaculture (Venezuela)

RESEARCH INTERESTS

Freshwater fisheries

Life history and reproductive ecology of freshwater fishes

Conservation of freshwater imperiled fishes

Trait-environmental relationships in fish assemblages

Stream/river ecology

Aquatic food webs and trophic ecology

TEACHING EXPERIENCE

Stephen F. Austin State University, Department of Biology

Introduction to Ecology and Evolution (Fall 2019)

Biology for Science Majors II (Spring 2022)

Biology for Non-Science Majors (Spring 2021, Spring 2022)

General Ecology (Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022)

Ichthyology (Spring 2020)

Limnology (Fall 2020)

Biology Undergraduate Seminar (Spring 2021, Spring 2022)

Advanced Community Ecology (Fall 2021)

Supervised Practicum in Advanced Biology (Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022)

Advanced Graduate Studies (Spring 2020, Spring 2021, Summer 2021, Fall 2021)

Thesis Writing (Summer 2021, Fall 2021, Spring 2022)

Sam Houston State University, Department of Biological Sciences

Contemporary Biology (Fall 2015, Spring 2016, Fall 2016, Fall 2017, Spring 2018, Fall 2018)

General Ecology (Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019), Community Ecology (Spring-2017), Undergraduate Seminar (Fall 2018), Ichthyology (Spring 2019), Freshwater Bioassessment (Summer 2019)

Colegio de la Frontera Sur (ECOSUR), Mexico

Invited lecturer, Mini-Course in Stable Isotope Analysis in Ecology. Mexico (Spring 2015)

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

Ichthyology (Graduate Assistantship: Spring 2010)

Natural History of the Vertebrates (Graduate Assistantship: Fall 2010)

UNELLEZ-Guanare, Department of Natural and Renewal Resources, Venezuela

Freshwater fishes (Graduate Assistantship: 2001-2006)

PEER-REVIEWED PUBLICATIONS (U = Undergraduate Student, G = Graduate Student, * = Postdoc Researcher)

Shepta, E.^G, J. Perkin, K. Mayes, C.M. Schalk & **C.G. Montaña**. (*In Review*). The ecological niche of native and invasive fish congeners in Texas streams: evidence from morphology, stable isotope analysis, and stomach contents analysis. *Biological Invasions*.

Castillo, V.^U, J. Swanson^G & **C.G. Montaña**. (*Accepted*). Ecological aspects of the Pirate perch (*apredoderus sayanus*) in East Texas streams. *Southeastern Naturalist*.

Rosenbaum, D.^G, D. Saenz, C.G. Montaña, Y. Zhang, C.M. Schalk (*In Review*). Detection, occupancy, and abundance of the Alligator Snapping Turtle in Texas. *Journal of Wildlife Management and Wildlife Monographs*.

Antoniazzi, R.*., **C.G. Montaña**, D. Peterson & C.M. Schalk. (*In Review*). Changes in taxonomic and functional diversity of an urban stream fish assemblage: a 30-year perspective. *Frontiers in Environmental Science*.

Arnett, J.M.^U, C.S. Adams^G, **C.G. Montaña** & C.M. Schalk. (*In Review*). Mediterranean house geckos (*Hemidactylus turcicus*) exploit novel resources in a recipient lizard assemblage. *Journal of Herpetology*.

46. Perkin, J.S., **C.G. Montaña**, E.J. Nogueira^U, B.B. Brandao^U, G.M. Mattox & K.W. Conway. 2022. Estimated richness and environmental correlates of miniature fish assemblages in the Rio Jacundá, Brazil. *Neotropical Ichthyology* <https://doi.org/10.1590/1982-0224-2021-0051>

45. Aragón-Flores, E.A.^G, R. Rodiles-Hernández, M. Soria-Barreto, **C.G. Montaña**, M.M. Castillo & M. Cazzanelli. 2022. Trophic Ecology and resource partitioning of *Centropomus undecimalis* and *Centropomus poeyi* in the Usumacinta River Delta. *Transactions of American Fisheries Society*. <http://doi.org/10.1002/tafs.10340>

44. **Montaña, C.G.**, F. Keppeler, C. Laughrey^U & C.M. Schalk. 2021. The phenology of pond metacommunities: The role of space, time, and environmental gradients. *Aquatic Ecology* <https://doi.org/10.1007/s10452-021-09902>

43. **Montaña, C.G.**, E. Liverpool, D.C. Taphorn & C.M. Schalk. 2021. The cost of gold: mercury contamination of fishes in a Neotropical river food web. *Neotropical Ichthyology* 19(3):e200155.

42. Aragón-Flores, E.A^G, R. Rodiles-Hernández, M. Soria-Barreto, **C.G. Montaña** & M.M. Castillo. 2021. Variación temporal de la abundancia de la comunidad de peces en el delta del Río Usumacinta, México. *Revista Mexicana de Biodiversidad* 92(2021): e923072
41. Soria-Barreto, M., **C.G. Montaña**, K.O. Winemiller, M., M.M. Castillo & R. Rodiles-Hernandez 2020. Seasonal variation in production sources supporting fish biomass along the longitudinal gradient of the Río Usumacinta, Mesoamerica's largest river. *Marine & Freshwater Research* 72:353-364.
40. **Montaña, C.G.**, F.W. Keppeler, C. Ou & K.O. Winemiller. 2020. Functional and trophic diversity of fishes in the Mekong-3S river system: comparison of morphological and isotopic patterns. *Environmental Biology of Fishes* 103:185–200.
39. Keppeler, F., **C.G. Montaña** & K.O. Winemiller. 2020. The relationship between trophic level and body size in fishes depends on functional traits. *Ecological Monographs* 90(4):e01415
38. Arbour, J.A, **C.G. Montaña**, K.O. Winemiller, A. Pease M. Soria-Barreto, J. Cochran-Biederman & H. López-Fernández. 2020. Macroevolutionary analyses indicate that repeated adaptive shifts towards predatory diets affect functional diversity in Neotropical cichlids. *Biological Journal of Linnean Society*. blaa001.<https://doi.org/10.1093/biolinnean/blaa001>
37. Jobe, K.L^U, **C.G. Montaña** & C.M Schalk. 2019. Emergent patterns between salamander prey and their predators. *Food Webs* e00128.
36. **Montaña, C.G.**, S. Silva^G, D. Hagyar^G, J. Wager^U, L. Tiegs^G, C. Sadeghian^G, T.A. Schriever & C.M. Schalk. 2019. Revisiting ‘What do tadpoles really eat?’ A ten-year perspective. *Freshwater Biology* 64: 2269-2282
35. Zhang, C. R. Zhong, Z. Wang, **C. G. Montaña**, Y. Song, K. Pan, S. Wang & Y. Wu. 2019. Intra-annual variation of zooplankton community structure and dynamics in response to the changing strength of biomanipulation with two planktivorous fishes. *Ecological Indicators* 101:670-678.
34. Winemiller, K.O, D.C. Taphorn, L.C. Kelso-Winemiller, E.O. López, F. Keppele & **C.G. Montaña**. 2018. Fish metacommunity structure in Caño Maraca, an important nursery habitat in the Western Llanos of Venezuela. *Neotropical Ichthyology* 16(4): e180074
33. Allgeier, J., C.A Layman, **C.G. Montaña**, S. Hensel, R. Appaldo & A. Rosemond. 2018. Anthropogenic versus fish-derived nutrient effects on seagrass community structure and function. *Ecology* 99(8):1792-1801
32. **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
31. Schalk, C.M., **C.G. Montaña**, K. Kralman^U & D.J. Leavitt. 2018. Functional distance and establishment of non-native species with complex life cycles. *Biological Invasions* 20(8): 1945-1952
30. Ceneviva-Bastos, M., **C.G. Montaña**, C.M. Schalk, L. Casatti & P.B. Camargo. 2017. Does the addition of structural complexity and basal resource diversity affect food web structure of degraded streams? *Austral Ecology* 42:908-919
29. Ou C., **C.G. Montaña** & K.O. Winemiller. 2017. Body size–trophic position relationships among fishes of the Lower Mekong Basin. *Royal Society Open Science* 4:160645
28. 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
27. Layman, C.A., J. Allgeier & **C.G. Montaña**. 2016. Mechanistic evidence of enhanced production on artificial reefs: A case study in a Bahamian seagrass ecosystem. *Ecological Engineering* 95:574-579

26. Schalk, C.M., **C.G. Montaña** & L.E. Springer^U. 2015. Morphological diversity and community organization of desert anurans. *Journal of Arid Environments* 122:132-140
25. **Montaña, C.G.**, Layman C.A. & K.O. Winemiller. 2015. Species-area relationship within benthic habitat patches of a tropical floodplain river: an experimental test. *Austral Ecology* 40:331-336
24. Willis, S.C., K.O. Winemiller, **C.G. Montaña**, P. Reiss, J. Macrander, I.P. Farias & G. Ortí. 2015. Population genetics of the speckled peacock bass (*Cichla temensis*): implications for management of South America's most important sportfishery. *Conservation Genetics* 16:1345-1357
23. Winemiller, K.O., **C.G. Montaña**, D.L. Roelke, J.B. Cotner, J.V. Montoya, L. Sanchez, M.M. Castillo & C.A. Layman. 2014. Pulsing hydrology determines top-down control of basal resources by fish and meiofauna in a tropical river-floodplain ecosystem. *Ecological Monographs* 84(4):621-635
22. 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
21. **Montaña, C.G.**, K.O. Winemiller & A. Sutton. 2014. Intercontinental comparison of fish ecomorphology: null model tests of community assembly at the patch scale in rivers. *Ecological Monographs* 84(1): 91-107
20. Schalk, C.M., **C.G. Montaña** & M. Libson^U. 2014. Reproductive strategies of two Neotropical killifish, *Austrolebias vanderbergi* and *Neofundulus ornatipinnis* (Cyprinodontiformes: Rivulidae) in the Bolivian Gran Chaco. *Revista de Biología Tropical* 62(1):109-117
19. **Montaña, C.G.** & K.O. Winemiller. 2013. Evolutionary convergence in Neotropical cichlids and Nearctic centrarchids: evidence from morphology, diet and stable isotope analysis. *Biological Journal of Linnean Society* 109:146-164
18. López-Fernández, H., K.O. Winemiller, **C.G. Montaña** & R.L. Honeycutt. 2012. Diet-morphology correlations in the radiation of South American Geophagine Cichlids (Perciformes: Cichlidae: Cichlinae). *PlosOne* 7(4):e33997
16. Willis, S.C., H. López-Fernández, **C.G. Montaña**, I.P. Farias & G. Ortí. 2012. Species-level phylogeny of 'Satan's perches' based on discordant gene trees (Teleostei: Cichlidae: *Satanoperca* Günther 1862). *Molecular Phylogenetics and Evolution* 63:789-808
16. **Montaña, C.G.**, C.M. Schalk & D.C. Taphorn. 2012. First record of Van den Berg's Pearlfish, *Austrolebias vanderbergi* Huber, 1995 (Cyprinodontiformes, Rivulidae) in Bolivia with comments on its diet and reproductive biology. *Check List* 8:589-591
15. Ou, C., **C.G. Montaña**, K.O. Winemiller & K.W. Conway. 2011. *Schistura diminuta*, a new miniature loach from the Mekong River drainage of Cambodia (Teleostei: Nemacheilidae). *Ichthyological Explorations of Freshwaters* 22(3):193-200
14. **Montaña, C.G.**, C.A. Layman & K.O. Winemiller. 2011. Gape size influences seasonal patterns of piscivore diets in three Neotropical rivers. *Neotropical Ichthyology* 9(3):647-665
13. **Montaña, C.G.**, S. Choudhary & K.O. Winemiller. 2011. Seasonal dynamics of fisheries in the Ganges River, Bhagalpur, India. *Fisheries Management and Ecology* 18:282-296
12. **Montaña, C.G.**, C.A. Layman & D.C. Taphorn. 2011. Inventario de la ictiofauna del Caño La Guardia, afluente del río Capanaparo (cuenca del Orinoco), estado Apure, Venezuela. *Biota Colombiana* 11(1-2):75-88
11. **Montaña, C.G.** & K.O. Winemiller. 2010. Local-scale habitat influences morphological diversity of species assemblages of cichlid fishes in a tropical floodplain river. *Ecology of Freshwater Fish* 19:216-227

10. Willis, S.C., M. Numes, **C.G. Montaña**, I.P. Farias, G. Orti & N.R. Lovejoy. 2010. The Casiquiare River acts a corridor between the Amazons and Orinoco River basins: biogeographic analysis of the genus *Cichla*. *Molecular Ecology* 19:1014-1030
9. Layman, C. A., **C.G. Montaña** & J. E. Allgeier. 2010. Linking community assembly and rates of water level change in river littoral habitats. *Aquatic Ecology* 44:269–273
8. **Montaña C.G.** & K.O. Winemiller. 2009. Comparative feeding ecology and habitats use of *Crenicichla* species (Perciformes: Cichlidae) in a Venezuelan floodplain river. *Neotropical Ichthyology* 7:267-274
7. **Montaña, C.G.**, C.A. Layman & D.C. Taphorn. 2008. Comparison of fish assemblages in two littoral habitats in a Neotropical morichal stream in Venezuela. *Neotropical Ichthyology* 6(4):577-582
6. **Montaña, C.G.**, H. López-Fernández & D.C. Taphorn. 2008. A new species of the genus *Crenicichla* (Perciformes: Cichlidae) from Ventuari River, Upper Orinoco River, Amazonas State, Venezuela. *Zootaxa* 1856:3340
5. Post, D.M., D.A. Arrington, C.A. Layman, G. Takimoto, J. Quattrochi & **C.G. Montaña**. 2007. Getting to the fat of the matter: model, methods and assumptions for dealing with lipids in stable isotopes analysis. *Oecologia* 152:179-189
4. Layman, C.A., D.A. Arrington, **C.G. Montaña** & D.M. Post. 2007. Can stable isotope ratios provide for community-wide measures of trophic structure? *Ecology* 86(9): 2530-2535
3. Willis, S.C., M. Numes, **C.G. Montaña**, I.P. Farias & N.R. Lovejoy. 2007. Systematics, biogeography, and evolution of *Cichla* (Perciformes: Cichlidae) with insight into the origin of tropical freshwater fish diversity in South America. *Molecular Phylogenetics and Evolution* 44: 291-307
2. **Montaña, C.G.**, D.C. Taphorn, C.A. Layman & C. Lasso. 2007. Distribución, alimentación y reproducción de tres especies de pavones *Cichla* spp. (Perciformes, Cichlidae) en la cuenca baja del río Ventuari, Estado Amazonas, Venezuela. *Memoria de la Fundación La Salle de Ciencias Naturales* 165: 83-102
1. Taphorn, D.C., **C.G. Montaña** & P. Buckup. 2006. *Characidium longum* (Characiformes: Crenuchidae): A New Species of Fish from Venezuela. *Zootaxa* 1247:1-12

NATURAL HISTORY NOTES

- Montaña, C.G.**, M. Cenevica-Bastos & C.M. Schalk. 2014. New vertebrate prey for the aquatic salamander *Amphiuma means* (Caudata: Amphiumidae). *Herpetology Notes* 7:755-756
- Schalk, C.M. & **C.G. Montaña**. 2012. *Liophis peocilogyrus* (Yellow-bellied Liophis): Diet and foraging behavior. Natural history notes. *Herpetological Review* 43(1):148
- Schalk, C.M. & **C.G. Montaña**. 2011. *Ceratophrys cranwelli* (Cranwell's Horned Frog): Diet. *Herpetological Review* 42(3):409-410
- Montaña, C.G.** 2008. Cichlids in a Neotropical Blackwater Floodplain River-Cinaruco River, Venezuela. Part I: Overview. *Buntbarsche Bulletin* 248:11-16

BOOKS, BOOK CHAPTERS & TECHNICAL REPORTS

- Winemiller K.O., L. Kelso-Winemiller & **C.G. Montaña**. 2021. Peacock Bass: Diversity and Natural History of Tropical Predators. Elsevier.
- Montaña, C.G.** 2008. *Cichla ocellaris* del Río Cuyuni. In: J.P Rodríguez & F. Rojas-Suárez. *Libro Rojo de Peces amenazados de Venezuela*. Provita, Caracas
- Montaña, C.G.**, D.C. Taphorn, C.A. Layman & C.A. Lasso. 2005. Ecology and Conservation of Peacock Cichlids (*Cichla* spp.) in lower Ventuari River, Amazonas State, Venezuela. In: RAP Bulletin of Biological Assessment. Conservation International. Washington DC, USA

- Montaña, C.G.**, D.C. Taphorn, L. Nico, C.A. Lasso, O. Leon-Mata, A. Giraldo, O.Lasso-Alcala, C. DoNascimento & N. Milan. 2005. Fishes of the Ventuari River Basin, Amazonas state (Venezuela): Results of BioCentro, Fundacion La Salle and Fundacion Tierra Parima Research's. In: RAP Bulletin of Biological Assessment. Conservation International. Washington DC, USA
- Winemiller, K.O., **C.G. Montaña**, C. Krabbenhoft, K. Conway & K. Mayes. 2014. *Flow dependent species: life history and habitat associations in Texas Gulf Coast rivers*. Technical Report prepared to Texas Park and Wildlife Department (USA) by Texas A&M University.
- Winemiller K.O., R.I. Pizano & **C.G. Montaña**. 2014. *Findings on environmental flow needs in the lower Neches River to mitigate effects of climate change on its ecology*. 2014. Technical Report prepared to Big Thicket National Preserve, US National Park Service by Texas A&M University

COMPETITIVE GRANTS & AWARDS

- 2023-2025 Perkin, J. (PI, TAMU), K. Conway (Co-PI TAMU), **C.G. Montaña (Co-PI, SFASU)**. Assessing historical and contemporary distributions of freshwater fishes in the *Upper Sabine River* watershed with emphasis on long-term trends and monitoring for mussel host fishes. Texas Office of Comptroller. Total requested: \$ 444,641 (\$ 126,861 to Montaña). **Funded.**
- 2023-2025 Perkin, J. (PI, TAMU), K. Conway (Co-PI TAMU), **C.G. Montaña (Co-PI, SFASU)**. Assessing historical and contemporary distributions of freshwater fishes in the *Neches River* watershed with emphasis on long-term trends and monitoring for mussel host fishes. Texas Office of Comptroller. Total requested: \$ 498,658 (\$ 126,861 to Montaña). **Funded.**
- 2022-2025 **Montaña, C.G. (PI, SFASU)**, K.O. Winemiller (PI, Texas A&M University), J. VanKley (Co-PI, SFASU), K.W. Conway (Co-PI TAMU), L. Kelso-Winemiller (Co-PI TAMU). Collaborative Research: Track 1, IRES Sites: Student Research in Freshwater Ecosystems at the Epicenter of Neotropical Biodiversity, Guiana Shield. National Science Foundation (NSF). **Funded.**
- 2022-24. **Montaña, C.G. (PI, SFASU)**, C.M. Schalk, Bjorn Schmidt, K. Mayes, S. Curtis. Conservation status and life history of imperiled fish species in East Texas streams. Texas Parks and Wildlife Department, Inland Fisheries State Wildlife Grant. (\$133,842). **Funded.**
- 2021-2024. David Hoeinghaus (PI), **C.G. Montaña (Co-PI)**, Zacchaeus Compson (Co-PI). Population assessment of Smalleye (*Notropis buccula*) and Sharpnose (*Notropis oxyrhynchus*) shiners in the Brazos River and data-driven recommendations for long-term monitoring. (Total requested \$499,882). Texas Office of Comptroller (\$ 97,910.62 to Montaña). **Funded.**
2021. **Montaña, C.G.** Stephen F. Austin State University. Research Grant Development (RGD) (\$5,000). Summer 2021. **Funded.**
2021. **Montaña, C.G.** Stephen F. Austin State University. Summer Undergraduate Research Experience (SURE) SFA CoSM (\$1,300). **Funded.**
2021. **Montaña, C.G.**, C.M. Schalk, K. Mayes, S. Curtis. Texas Parks and Wildlife Department. Community dynamics of imperiled fish across multiple life stages in East Texas streams. (\$105,821). **Not Funded.**
2021. R. Yu, **Montaña, C.G.**, N. Ford, T. Shtoyko & S. Anil. MRI: National Science Foundation (NSF). Acquisition of Tekran mercury speciation system for mercury biotransformation and ecotoxicology research and training at UT Tyler. (\$ 112,006). **Funded.**
2020. **Montaña, C.G.** Stephen F. Austin State University. Minigrant. Research Project Support. (\$1,498.00). **Funded.**

2020. Schalk, C.M., **C.G. Montaña**, D. Saenz & J.J. Apodaca. Baseline study of Alligator Snapping Turtle (*Macrochelys temminckii*) population viability. Texas Office of Comptroller (\$397,139.21). *Not funded*.
2020. **Montaña, C.G.**, C.M. Schalk, K. Mayes. Texas Parks and Wildlife Department. Conservation status and life histories of imperiled fish species in East Texas streams. (\$139,175). *Not Funded*.
2020. Nair S., J. Ma, M. Choudhary H. Cho, R. Balaraman, **C.G. Montaña**. The Agriculture and Food Research Initiative - Education and Workforce Development AFRI EWD (USDA): Research and Exterior Experiences for Undergraduates Project. *Not funded*.
- 2019-20. **Montaña, C.G.** Stephen F. Austin State University RCA Grant, (\$20,000). Project: Examining the effects of predators on energy and nutrient exports across aquatic-terrestrial boundaries. *Funded*.
2019. **Montaña, C.G.** & Joshua Perkin. Texas Parks and Wildlife Department. Project: Assessing pathways of introduction of non-native fishes (Sheepshead Minnow: *Cyprinodon variegatus*, and Gulf Killifish: *Fundulus grandis*) in Texas streams. (\$74,580). *Funded*
2019. R. Yu, **Montaña, C.G.**, N. Ford, T. Shtoyko & S. Anil MRI: National Science Foundation (NSF). Project: Acquisition of Tekran mercury speciation system for mercury biotransformation and ecotoxicology research and training at UT Tyler. (\$ 112,006). *Not funded*.
2019. **Montaña, C.G.**, C.M. Schalk, D. Peterson & K. Mayes. Texas Parks and Wildlife Department. Project: 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. (\$60,000). *Not funded*
2018. **Montaña, C.G.** EURECA FAST Grant, Sam Houston State University. Project: Primary productivity and nutrient enrichment effects on mercury methylation in stream biota. (\$8,000). *Not Funded*.
2018. **Montaña, C.G.**, M. Choudhary, A. Ulseth. ORSP-Sam Houston State University. Internal Grant Program: Interdisciplinary Collaborations Program. Project: Primary productivity and nutrient enrichment effects on mercury methylation in stream biota. (\$14,916). *Not Funded*
2018. **Montaña, C.G.** EURECA FAST Grant, Sam Houston State University. Project: Mercury contamination in freshwater ecosystems: Examining impacts on microbial communities and identifying pathways of mercury methylation. (\$8,000). *Funded*
2018. **Montaña, C.G.** Association of American Colleges and Universities (AASCU/RFY) Mini-grant. Project: Using *iNaturalist* to engage freshman non-science students connect with scientific research. (\$2,500). *Funded*
2018. **Montaña, C.G.** & M. Choudhary. Enhancement Research Grant (ERG)- Sam Houston State University. Project: Effects of gold mining on mercury methylation and freshwater microbiome. (\$15,000). *Funded*
2018. **Montaña, C.G.** Texas Ecolab Grant. Project: Seasonal variation of diversity and trait composition of species inhabiting stream and pond habitats along a landscape gradient. (\$3,000). *Funded*.
2018. **Montaña, C.G.** Texas Parks and Wildlife Department. Project: Assessment of the effects of invasive Sheepshead Minnow (*Cyprinodon variegatus*) and Gulf Killifish (*Fundulus grandis*) on native fish communities of Brazos and Red river basins: An approach based on trophic ecology and functional diversity. (\$98,042). *Not Funded*.
2017. **Montaña, C.G.** National Geographic Society's Committee for Research and Exploration Grant. Project: Fisheries, food webs, and Amerindian communities in a threatened tropical river:

- ecological and cultural impacts of gold mining in the Mazaruni River, Guyana. (\$25,000). *Not Funded*.
2016. **Montaña, C.G.** & E. Liverpool World Wildlife Fund Mercury contamination in fish and food webs Mazaruni River-Guyana. (\$10,000). *Funded*.
2016. **Montaña, C.G.**, C.M. Schalk & C.W. Hargrave. EURECA FAST Grant, Sam Houston State University (\$8,000). *Funded*.
2016. **Montaña, C.G** & C.W. Hargrave. Faculty Research Grant (FRG), Sam Houston State University (\$5,000). Co-PI with C.W. Hargrave 2016. *Funded*
- 2016-2019. **Montaña, C.G.** ECOSUR- Research Grant [Southeast Ecological Research Center-Mexico] (\$ 160,000). *Funded*
2011. **Montaña, C.G.** Tom Slick Graduate Research Fellowship Award, Texas A&M University (\$32,000)
2011. **Montaña, C.G** GPEF- Travel and Presentation Grant, Dep. WFSC, Texas A&M University (\$500)
2010. **Montaña, C.G** GPEF Travel and Presentation Grant, Dep. WFSC, Texas A&M University (\$300)
2009. **Montaña, C.G** P.E.O International Women Fellowship (\$10,000)
2008. **Montaña, C.G** American Cichlid Association, ACA Paul V. Loiselle Conservation Fund (\$1,500)
2008. **Montaña, C.G** Ecology and Evolutionary Biology Travel Grant, Texas A&M University (\$600)
2008. **Montaña, C.G** GPEF Travel and Presentation Grant. Dep. WFSC, Texas A&M University (\$300)
2007. **Montaña, C.G.** Neotropical Grassland Conservancy-Francis Smith Remembrance Grant (\$500)
2003. **Montaña, C.G.** Neotropical Grassland Conservancy, Research award (\$500)
2002. **Montaña, C.G.** Foundation Cisneros, Logistic & Research grant (\$1,000)
2001. **Montaña, C.G.** U.S. Fisheries & Wildlife Services. Graduate Fellowship (\$2,500)

HONOR & AWARDS

- 2021. Distinguished Grant Award**–Faculty Research First Award. Stephen F. Austin State University.
- 2019. Distinguished Research/Creative Activity Award.** Stephen F. Austin State University.
- 2012. Outstanding Fisheries Worker Award.** Texas Chapter of the American Fisheries Society.
- 2011. Vice Chancellor's Award in Excellence.** Texas A&M University. 2011
- 2011. Clark Hubbs Student Research Award.** Texas Chapter of the American Fisheries Society.
- 2009. Outstanding PhD student Award.** Texas A&M University.

MENTORING EXPERIENCE

Current Graduate Students

- 2022-present. Jamie Stephan**– M.S. Student. Department of Biology. SFASU. *Thesis:* Regional and local scale abiotic and biotic factors shaping imperiled fish communities in the Brazos River in Texas.

Past Graduate Student Theses

- 2020- 2022. Erin Shepta**– M.S. Student. Department of Biology. SFASU. *Thesis*: Assessing the live bait industry and the ecological status of non-native Cyprinodontiformes (Sheepshead Minnow: *Cyprinodon variegatus*, and Gulf Killifish: *Fundulus grandis*) in Texas streams.
- 2020-2022. Jake Swanson**– M.S. Student. Division of Environmental Science, SFASU *Thesis*: Fish functional diversity and occupancy across Texas riverscapes.
- 2017-2019. Caroline Obkirchner** – M.S. Student. Department of Biological Sciences. SHSU *Thesis*: The effects of gold mining in mercury methylation and microbiome in a freshwater ecosystem. Co-advised with M. Choudhary

Graduate Student Committees

- 2021-present. Savannah Damiano**– M.S. Student, Biology, SFASU.
- 2021-present. Tatiana Suarez Joaqui**– Ph.D. Student, Forestry, SFASU.
- 2016-present. Elford Liverpool**– Ph.D. University of Guyana, East Coast Demerara, Guyana
- 2020-2022. Elif Ilhan**– M.S. Student, Division of Environmental Science, SFASU.
- 2020- 2022. Sujina Manandhar** – M.S. Student, Department of Biological Sciences. SHSU
- 2020-2022. David Rosenbaum**– M.S. Student, Forestry, SFASU.
- 2018-2020. Javier Gomez** – M.S. Department of Biological Sciences. SHSU
- 2016-2021. Edgar Abraham Aragón Flores**– Ph.D. Department of Biodiversity and conservation, Colegio de la Frontera Sur (ECOSUR), Mexico
- 2016-2018. Supuni DGTM Silva** – M.S. Department of Biological Sciences. SHSU

Undergraduate Students Mentored

- Fall 2022-present- Eli Torrez**– (Biology, SFASU). *Project*: Habitat selection and ecological niche of shiner species in streams in East Texas.
- Spring 2022-present- Faith Rodarte**– (Biology, SFASU). *Project*: Ecological niche of stream dwelling shiners in an urban stream in east Texas.
- Spring 2022-present- Conner Young**– (Biology, SFASU). *Project*: Microhabitat selection in three species of shiners in streams of East Texas.
- Fall 2021-present- Rylee Gabbert**– (Environmental Science, SFASU). *Project*: Abundance, distribution, and diversity of microplastic contamination in a stream catchment.
- Spring 2021-present- Siena Stassi**– (Environmental Science, SFASU). *Project*: Distribution and abundance of microplastic in water and sediments in urban-rural streams in East Texas.
- Spring 2021-2022- Juan Lara**– (Biology, SFASU). *Project*: Examining ecological niche and resource partitioning in sunfishes (*Lepomis* spp.) in streams of East Texas, TX.
- 2020-2022. Zachary Hutchens**– (Biology, SFASU). *Projects*: 1) Occurrence, movements, and ecological aspects of Sabine shiner (*Notropis sabiniae*) in east Texas streams. *Outcomes*: Oral presentation at 68th Annual meeting of Southwestern Association of Naturalists April 23-24, 2021. **Awarded with the Student Field Natural History Award** for outstanding oral presentation. 2) Getting to know the status of two invasive Cyprinodontiformes (Sheepshead minnow-*Cyprinodon variegatus* and Gulf Killifish-*Fundulus grandis*) in Texas waters. Poster presentation. **Awarded Best Undergraduate poster presentation** at TAMU Ecological Integration Symposium 2020.
- 2020-2022- Courtney Plummer**– (Biology, SFASU). *Project*: Assessing the health of a stream in East Texas: an approach using aquatic invertebrates and fish as bioindicators. *Outcome*: Poster presentation at Virtual Meeting, Texas Chapter American Fisheries Society Feb 2-4, 2021.
- 2020- 2021- Brittney Reese**– (Biology, SFASU). *Project*: Distribution and life history aspects of the Blackspot shiner (*Notropis atrocaudalis*) in Centra-East Texas streams. *Outcomes*: Poster

- presentation at Virtual Meetings: 2021 Southwestern Association of Naturalists April 22-24, 2021; and at The Texas Chapter American Fisheries Society Feb 2-4, 2021.
- 2020- 2021- Valerie Castillo**– (Biology, SFASU). Project: Describing morphological, ecological and life history aspects of the Pirate Perch (*Aphredoderus syanus*) from streams in East Texas. Outcome: Poster presentation at Virtual Meeting, Texas Chapter American Fisheries Society Feb 2-4, 2021.
- S020- 2021- Lucas Kahn**– (Biology, SFASU). Project: Anomalies and microplastic in fishes inhabiting nearby urban streams in Nacogdoches County, TX. Outcome: Oral presentation at SFASU 2021 Undergraduate Research Conference. Awarded Top Scholar of the College of Science and Mathematics. One Poster presentation at Virtual Meeting, Texas Chapter American Fisheries Society Feb 2-4, 2021.
- 2020- Jessica O’Neill**– (Biology, SFASU). Morphological and trophic ecology of sunfishes inhabiting an urban stream in East Texas.
- 2019- 2021– Jordan Griffin**– (Biology, SFASU). Project: Range of distribution of Sheepshead minnow (*Cyprinodon variegatus*) in Texas waters. Outcome: Three poster presentations at SFASU, Texas Chapter American Fisheries Society, and The Ecological Integration Symposium. **Awarded Best Undergraduate poster presentation** at TAMU Ecological Integration Symposium 2020.
- 2019- Alejandra Martinez**– (Forestry, SFASU). Project: Examining life history parameters and organismal stoichiometry of the Western Mosquito Fish (*Gambusia affinis*) in streams in East Texas. Outcome: One poster presentation at Texas Chapter American Fisheries Society.
- 2019- Kathy Li**– (Biology, SFASU). Project: Taxonomic and morphological diversity of fishes in East Texas streams. Outcome: One poster presentation at TAMU Ecological Integration Symposium 2020.
- 2019- Janessa Estrada**– (Biology, SHSU). Project: Life History Strategies of the Western Mosquito Fish (*Gambusia affinis*) in rural and urban streams in East Texas. Outcome: Poster presentation at SHSU Undergrad Research Symposium 2019.
- 2018- 2019 Chelsea Veloso**– (SHSU). Project: Trophic ecology of native and non-native fishes in an urban stream in East Texas. Outcome: Poster presentation at SHSU Undergrad Research Symposium 2019, at the Ecological Integration Symposium 2019 at Texas A&M University, and at the Southern Division of American Fisheries Society 2019 at Galveston, TX.
- 2018-2019 Alexis Alexander**– (SHSU). Project: Aquatic macroinvertebrate diversity in ponds at the Center of Biological of Field Studies at Sam Houston State University
- 2018- 2019. Breanna Moore** – (SHSU). Project: Tadpole functional diversity in pond ecosystems in East Texas.
- 2017-2019 Edan Morag**– (SHSU). Project: Taxonomic and functional diversity of fishes in rural and urban streams in East Texas. Outcome: Poster presentation at SHSU Undergrad Research Symposium 2019, at the Ecological Integration Symposium 2019 at Texas A&M University.
- 2016-2018. Clay Laughrey** – (SHSU). Project: Species co-occurrence patterns across pond microhabitats. Outcome: Successfully funded grant proposal by COSET- SHSU. Poster presentations at SHSU Undergrad Research Symposium 2017 and 2018, at Ecological Integration Symposium 2017 and 2018 at Texas A&M University, and at the American Society of Ichthyologists and Herpetologists 2017
- 2017-2018. Wendi Alvarado** – (SHSU). Project: Phenotypic plasticity of Cricket frog (*Acris blanchardi*) across pond microhabitats. Outcome: Poster presentation at SHSU Undergrad Research Symposium 2018 and at the Ecological Integration Symposium 2018 at Texas A&M University

- 2016-2018. Kelsey Kralman** – (SHSU). *Project:* Functional perspectives on frog invasions. *Outcome:* Poster presentation at SHSU Undergrad Research Symposium 2017 and 2018 and at the Ecological Integration Symposium 2017 and 2018 at Texas A&M University, Co-authored publication published in Biological Invasions
- 2014. Claro Navarro** (Student from Brazil) – *Project:* Ecological stoichiometry of fishes along a gradient of urbanization in Piedmont streams in North Carolina. North Carolina State University. *Outcome:* Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists, publication under review
- 2012-2013. Laura Springer** – (TAMU). *Project:* Morphological diversity of Chihuahuan Desert anurans. *Outcome:* Poster presentation at TAMU Ecological Integration and coauthored one publication in Journal of Arid Environments
- 2009-2012. Monica Libson** – (TAMU). *Project:* Fish assemblages from oxbow lakes-Brazos River and Reproductive biology Chaco killifish. *Outcome:* Poster presentation at TAMU Ecological Integration Symposium and co-authored publication at Revista de Biologia Tropical
- High School Student Mentor - Hutton Junior Fisheries Biology Program, American Fisheries Society*
- Summer 2017. Lilith Meng** – The Woodlands College Park High School, TX. *Project:* Functional and taxonomic diversity of fishes along a gradient of land use in Harmon creek, Huntsville. Mentorship through Hutton Junior Fisheries Biology Program, American Fisheries Society

INVITED TALKS

- 2022 (Fall) – Everything is bigger here! Conservation challenges of Texas stream fishes. Western Michigan University, Kalamazo, MI.
2022. (Summer) – Symposium at American Society of Ichthyologists and Herpetologists (ASIH). Using museum specimens to complement
2022. (Spring) – Conservation of stream fishes: a temperate and tropical perspective. University of Wyoming Laramie, WY.
2020. (Fall) – Keynote speaker. Tadpole trophic ecology: continued efforts to answer the question 'what tadpoles really eat?' 1st. International Symposium of Tadpole Evolution. Brazil 2020.
2019. (Fall) – Stable Isotope Analysis: *a tool in ecological research of freshwater ecosystem.* National Science Foundation Workshop. Fort Collins, Colorado
2018. (Spring) – The Essential for women competing in Science: experiences and opportunities. Society of Women for Excellence in Science and Technology. Sam Houston State University, Huntsville, TX
2017. (Fall) – Fishes and food webs in floodplain rivers: *the things we doing to them!* TRI-Beta Association. Honor College. Sam Houston State University, Huntsville, TX
2016. (Fall) – Use of “Floy tags” to study movement of *Cichla* species (Cichlidae) in a Venezuelan floodplain river. Sam Houston State University, Huntsville, TX
2016. (Fall) – Fish assemblages and aquatic food-web structure in tropical floodplain rivers. Sam Houston State University, Huntsville, TX
2016. (Spring) – Fish assemblage structure and food-web dynamics in freshwater ecosystems. Clemson University Clemson, South Carolina.
2015. (Spring) – Ecological connectivity in freshwater ecosystems. Department of Biodiversity Conservation at Colegio de la Frontera Sur (ECOSUR), Mexico.
2014. (Fall) – Community assembly in freshwater systems and ecomorphological convergence. Department of Wildlife and Fisheries, Texas A&M University. College Station, TX.

CONFERENCE ACTIVITY/PARTICIPATION**Conference Organized**

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

CONFERENCE PRESENTATIONS (last 5 years, U = Undergraduate and G = Graduate)**Oral presentations**

2022. **Montaña C.G.**, C. Young^U & Z. Hutchens^U. Inter-specific habitat and morphological variation of three sympatric shiners: the Blacktail (*Cyprinella venusta*), Blackspot (*Notropis atrocaudalis*) and Sabine (*N. sabiniae*) in Texas Streams. Texas Chapter American Fisheries Society. Hunt, Texas. May 18.
2022. Hutchens, Z^U. & **C.G. Montaña**. Population structure, habitat use, and ecological aspects of an imperiled Cyprinid the Sabine Shiner (*Notropis sabiniae*) in East Texas streams: A 20-year perspective. Texas Chapter American Fisheries Society. Hunt, Texas. May 18.
2022. Shepta, E. & **C.G. Montaña**. Assessing the Texas live bait industry as a pathway of introduction for two invasive cyprinodontids. Texas Chapter American Fisheries Society. Hunt, Texas. May 18.
2022. Stassi, S^U., **C.G. Montaña** & S. Jerez. From the bottom to the top: Microplastics abundance and diversity in aquatic food webs of rural-urban streams in East Texas. Undergraduate Research Conference, SFASU. April 12.
2021. **Montaña, C.G.**, C. Laughrey, F^U, Keppeler, C.M. Schalk, The phenology of metacommunities within ponds: The roles of space, time, and environmental gradients. 68th Annual Meeting of Southwestern Association of Naturalists April 23-24.
2021. Hutchens, Z^U., Swanson, J.^G & **Montaña, C.G.** Movements, habitat use, and ecological aspects of the Sabine Shiner (*Notropis sabiniae*) in an East Texas streams. 68th Annual Meeting of Southwestern Association of Naturalists April 23-24. **Awarded Outstanding Oral presentation.**
2021. Swanson, J.^G, **Montaña, C.G.** & C.M. Schalk. Local-Landscape Environmental Factors Influence the Structure of Fish Communities in East Texas Streams. 68th Annual Meeting of Southwestern Association of Naturalists April 23-24.
2021. Shepta, E.^G, C. Plummer^U & **Montaña, C.G.** Stream health along a gradient of land-use: use of aquatic invertebrates and fish as bioindicators. 68th Annual Meeting of Southwestern Association of Naturalists April 23-24.
2021. Shepta, E.^G, J. Perkin, K.B. Mayes & **Montaña, C.G.** Insights on the establishment of the invasive Sheepshead minnow (*Cyprinodon variegatus*) in Texas Rivers. East Texas. SFASU-Graduate Research Conference. Virtual. April 13, 2021.
2021. Swanson, J.^G, **Montaña, C.G.** & C.M. Schalk. Fish community assembly at multiple scales in East Texas. SFASU- Graduate Research Conference. Virtual. April 13, 2021.
2021. Kahn, L.^U, Ilhan E.^G & **Montaña, C.G.** Microplastics: a new report item in stomach contents of fishes in urban streams in East Texas. Undergraduate Research Conference, SFASU. **Awarded Top Scholar of the College of Science and Mathematics**
2021. Shepta, E.^G, J. Perkin, K.B. Mayes & **Montaña, C.G.** Insights on the establishment of the invasive Sheepshead minnow (*Cyprinodon variegatus*) in Texas Rivers. East Texas. Texas Chapter of the American Fisheries Society. Virtual. Feb 2, 2021.

2021. Swanson, J.^G, **Montaña, C.G.** & C.M. Schalk. Fish community assembly at multiple scales in East Texas. Texas Chapter of the American Fisheries Society. Virtual. Feb 2, 2021.
2021. Hutchens, Z.^U, Swanson, J.^G & **Montaña, C.G.** Occurrence, movements, and ecomorphological aspects of the Sabine shiner (*Notropis sabinae*) in East Texas Watershed. Texas Chapter of the American Fisheries Society. Virtual. Feb 2, 2021.
2020. **Montaña, C.G.** Tadpole trophic ecology: continued efforts to answer the question 'what tadpoles really eat?' 1st. International Symposium of Tadpole Evolution. Brazil 2020.
2020. Lebow, C. & **C.G. Montaña.** Evidence of Mercury Concentrations in Freshwater Fishes of The Guianas: Is There a Risk for Fish Consumption? 2020 Graduate Research Conference. SFASU. Nacogdoches, TX.
2019. Jobe K.L.^U, **C.G. Montaña** & C.M. Schalk. Caudates as prey: Predator diversity and size-relationship patterns. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, Utah
2019. **Montaña, C.G.** C. Obkirchner^G, E. Liverpool, S. Gonzalez^G & M. Choudhary. Gold mining erodes fish assemblages and food web structure in a Neotropical River. Office Research Sponsored Program at SHSU, Huntsville, TX.
2019. Schalk, C.M., C.P. Laughrey^U, L.M. Bower^G & **C.G. Montaña.** Species co-occurrence patterns along environmental gradients in pond microhabitats. Texas Chapter of the Wildlife Society, Montgomery, TX.
2018. **Montaña C.G.**, C.M. Schalk, T.A. Schriever, S. Silva^G, D. Hagyar^G, J. Wagner^U, L. Tiegs^G, C. Sadeghian^G. Revisiting 'What do tadpoles really eat?': A ten-year perspective. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY
2018. Laughrey, C.^U, **Montaña C.G.** & C.M. Schalk. Distribution of larval amphibians along a gradient in pond microhabitats. Ecological Integration Symposium. College Station, TX
2018. Schalk, C.M., **Montaña C.G.**, K. Kralman^U, D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. Texas Chapter of the Wildlife Society. Dallas, TX.
2017. **Montaña C.G.**, E. Liverpool, D.C. Taphorn, H. López-Fernández & K. Alofs. Fish, food webs, and mercury levels in a floodplain river in Guyana. International Symposium on Flood Pulse Ecosystems, Siem Reap, Cambodia
2017. **Montaña C.G.**, E. Liverpool, D.C. Taphorn, H. López-Fernández & K. Alofs. Trophic relationships and mercury levels in a tropical food web. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX
2017. Schalk, C.M., **Montaña C.G.**, K. Kralman^U & D.J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX
2016. **Montaña C.G.**, M. Soria-Barreto, R. Rodiles-Hernández & K.O. Winemiller. Food web dynamics in a Mesoamerica floodplain river. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA
2015. **Montaña C.G.**, C.A. Layman & C.M. Schalk. Elemental stoichiometry of stream consumers and basal sources along a rural to urban gradient. Postdoctoral Research Symposium. North Carolina State University. Raleigh, NC

Poster presentations (last 5 years, U = Undergraduate and G = Graduate)

2022. Peterson, D. & **C.G. Montaña.** A 70-year regional perspective of an east Texas urban fishery. Texas Chapter American Fisheries Society. Texas Chapter American Fisheries Society. Hunt, Texas. May 18. **Awarded Best Professional Poster Presentation overall.**

2022. Shepta, E^G. & **C.G. Montaña**. Ecological niche similarities between native (*Cyprinodon rubrofluviatilis* and *Fundulus zebrinus*) and invasive (*C. variegatus* and *F. grandis*) Cyprinodontids in Texas Streams: Evidence from Morphology, Diet, and Stable Isotope Analysis. Texas Chapter American Fisheries Society. Hunt, Texas. May 18.
2022. Lara, J^U., C. Adams, C.M. Schalk & **C.G. Montaña**. Taxonomic and morphological diversity of fish assemblages in the Big Cypress Creek, Texas. Texas Chapter American Fisheries Society. Hunt, Texas. May 18.
2021. Siena, S.^U, **C.G. Montaña** & S. Jerez. Microplastic in surface and sediments of rural-urban streams in East Texas: Distribution, abundance and diversity. ATCOFA Undergraduate Research Conference. SFASU. Dec. 1st. 2021.
2021. Hutchens, Z^U. & **C.G. Montaña**. Urbanization increases isolation of a threatened fish species in east Texas streams: A 20-year perspective. Summer Undergraduate Research Experience SFASU, TX.
2021. Reese, B.^U, J. Swanson^G & **C.G. Montaña**. Population structure and ecological aspects of the Blackspot Shiner (*Notropis atrocaudalis*) in streams in East Texas. 68th Annual Meeting of Southwestern Association of Naturalists April 23-24.
2021. **Montaña, C.G.**, J. Perkin, Erin Shepta^G, K. Mayes. Predicting the invasions of Sheepshead Minnow (*Cyprinodon variegatus*) and the Gulf Killifish (*Fundulus grandis*) in Texas waters using Ecological Niche models. Texas Chapter American Fisheries Society. Virtual Feb 2, 2021.
2021. Castillo V. J. Swanson^G & **C.G. Montaña**. Assessing the ecology and abundance of the pirate perch (*Aphredoderus sayanus*) in East Texas streams. Texas Chapter American Fisheries Society. Virtual Feb 2, 2021.
2021. Plummer, C.^U, E. Shepta^G & **C.G. Montaña**. Assessing the health of a stream in East Texas: an approach using aquatic invertebrates and fish as bioindicators. Texas Chapter American Fisheries Society. Virtual Feb 2, 2021.
2021. Kahn, L.^U & **C.G. Montaña**. Microplastics: A new reported item in stomach contents of fishes in local streams in East Texas. Texas Chapter American Fisheries Society. Virtual Feb 2, 2021.
2021. Reese, B.^U, J. Swanson^G & **C.G. Montaña**. Spatial distribution and ecological aspects of the Blackspot Shiner (*Notropis atrocaudalis*) in streams in East Texas. Texas Chapter American Fisheries Society. Virtual Feb 2, 2021.
2020. Pinson A.^U, H. Bays^U, D. Peterson & **C.G. Montaña**. Research and teaching collections: rescuing past and present of fish specimens to learn about fishes of East Texas. Ecological Integration Symposium. College Station, TX.
2020. Li K.^U, **C.G. Montaña** & C.M. Schalk. Morphological variation of bluegill (*Lepomis macrochirus*) populations across environmental gradients in East Texas. Ecological Integration Symposium. College Station, TX.
2020. Griffin J.^U, Z. Hutchens^U, **C.G. Montaña**, J. Perkin & Kevin Mayes. Distribution of the non-native Sheepshead minnow (*Cyprinodon variegatus*) in the Brazos River, Texas: Implications for niche overlap with its native congener Red River Pupfish (*Cyprinodon rubrofluviatilis*). Ecological Integration Symposium. College Station, TX.
2020. Swanson J.^G, **C.G. Montaña**, C.M. Schalk. Fish community assembly across riverine systems of east-central Texas. Ecological Integration Symposium. College Station, TX
2020. Griffin J.^U & **C.G. Montaña**, Morphological variation and distribution of *Cyprinodon variegatus* and *C. rubrofluviatilis* in Brazos River, Texas. Chapter of the American Fisheries Society. Waco, TX.

2020. Mattox G., **C.G. Montaña**, K. Conway & J. Perkin. Fish assemblage structure in leaf litter patches of the Jacunda River, Lower Amazon. Texas Chapter of the American Fisheries Society. Waco, TX
2020. **Montaña C.G.**, M. Beckham^G, D. Peterson, C.M. Schalk. The complex nature of conservation in urbanized streams: A case study in La Nana Bayou, East Texas. Texas Chapter of the American Fisheries Society. Waco, TX
2020. Martinez A^U, **C.G. Montaña**, C.M. Schalk. Does urbanization affect life history parameters of the Western Mosquito fish (*Gambusia affinis*)? Texas Chapter of the American Fisheries Society. Waco, TX.
2020. Swanson J.^G, **C.G. Montaña**, C.M. Schalk. Fish community assembly across riverine systems of east-central Texas. SFASU Graduate Research Conference. Nacogdoches, TX
2020. Arnett J.M.^U, C.S. Adams^G, **C.G. Montaña**, C.M. Schalk. Mediterranean House Geckos exploit novel resources in a recipient lizard assemblage. SFASU's Undergraduate Research Conference, Nacogdoches, TX.
2020. Arnett J.M.^U, C.S. Adams^G, **C.G. Montaña**, C.M. Schalk. Mediterranean House Geckos exploit novel resources in a recipient lizard assemblage. Southeast Partners in Amphibian and Reptile Conservation. Nauvoo, AL.
2019. Arnet J.M. t^U, C.S. Adams^G, **C.G. Montaña**, C.M. Schalk. Mediterranean House Geckos exploit novel resources in a recipient lizard assemblage. Arthur Temple College of Forestry and Agriculture Undergraduate Research Showcase, Nacogdoches, TX.
Awarded Seventh Place Poster Presentation.
2019. **Montaña C.G.**, David Peterson & C.M. Schalk. Historical and contemporary assessment of urban stream fish assemblages: taxonomic and functional perspectives. Joint Meeting of Ichthyologists and Herpetologists. Snowbird, Utah
2019. Morag E^U, C.M. Schalk. & **C.G. Montaña** Fish taxonomic and functional diversity in an East Texas stream. Ecological Integration Symposium. College Station, TX.
2019. Morag E^U, **C.G. Montaña** & C.M. Schalk. Assessing historical fish community structure using taxonomic, functional, and historical-contemporary data. ASLO 2019 Aquatic Sciences Meeting. Puerto Rico.
2019. Jobe K.L^U, **C.G. Montaña** & C.M. Schalk. Caudates as prey: Predator diversity and size-relationship patterns. Texas Chapter of the Wildlife Society, Montgomery, TX.
2019. Veloso C.^U, **C.G. Montaña** & C.M. Schalk. Niche segregation among sunfishes (*Lepomis* spp.) in an East Texas urban stream. Southern Division American Fisheries Society, Galveston, TX.
2019. **Montaña C.G.**, E. Morag, David Peterson & C.M. Schalk. Long-term changes in a fish community from an East Texas urban stream: A 28-year perspective. Southern Division American Fisheries Society, Galveston, TX.
2018. **Montaña C.G.**, A. Murfin, R. Pecen, L.Van Raalte & G. Wiedenfeld. Introducing research activities in freshman classes across disciplines. Association of American Colleges and Universities, Seattle WA
2018. Keppeler F.^G, **C.G. Montaña** & K.O. Winemiller. Exploring asymmetries in the relationship between body size and trophic level using a multi-trait approach. Ecological Society of America, New Orleans, LA
2018. Caceres I.^U C. Obkirchner^G, **C.G. Montaña** & M. Choudhary. Identification of factors that differentiate the gold-mining and non-gold-mining sites in the Mazaruni River, Guyana. Undergraduate Research Symposium at SHSU. Huntsville, TX

2018. Kralman K.^U, C. Laughrey^U, **C.G. Montaña**, & C.M. Schalk. Temporal variation in population structure of Western Mosquito Fish (*Gambusia affinis*) in an East Texas wetland. Ecological Integration Symposium. College Station, TX
2018. Kralman K.^U, C. Laughrey^U, **C.G. Montaña**, & C.M. Schalk. Temporal variation in population structure of Western Mosquito Fish (*Gambusia affinis*) in an East Texas wetland. Undergraduate Research Symposium at SHSU. Huntsville, TX
2018. Alvarado W.^U, C. Laughrey^U, **C.G. Montaña**, C.M. Schalk & J.D. Daza. Tail pigmentation in *Acris blanchardi* tadpoles along an environmental pond gradient. Ecological Integration Symposium. College Station, TX
2018. Alvarado W.^U, C. Laughrey^U, **C.G. Montaña**, C.M. Schalk & J.D. Daza. Tail pigmentation in *Acris blanchardi* tadpoles along an environmental pond gradient. Ecological Integration Symposium. College Station, TX
2018. **Montaña C.G.**, E. Liverpool, D. Taphorn & H. López-Fernández. Gold at what cost? Mercury levels in aquatic food webs in Mazaruni River, Guyana. Texas Chapter America Fisheries Society, College Station, TX
2018. Keppeler F.^G, **C.G. Montaña** & K.O. Winemiller. Is trophic level related to body size in Texas fishes? Texas Chapter America Fisheries Society, College Station, TX
2017. Laughrey C.^U, **C.G. Montaña**, C.M. Schalk & K. Kralman*. Distribution of larval amphibians along a gradient in pond microhabitats. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX
2017. Kralman K.^U, C.M. Schalk, **Montaña C.G.** & D. J. Leavitt. Functional distance and establishment of non-native species with complex life cycles. Ecological Integration Symposium. College Station, TX
2017. Laughrey C.^U, **C.G. Montaña**, C.M. Schalk & K. Kralman*. Species co-occurrence patterns along environmental gradients in pond microhabitats. Ecological Integration Symposium. College Station, TX
2016. **Montaña C.G.**, C.A. Layman & C.M. Schalk. Intraspecific and interspecific variation in stoichiometry of fishes in Piedmont streams of North Carolina. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA
2016. Kralman K.^U, **C.G. Montaña**, C.M. Schalk & D. J. Leavitt. Non-native species and novel niches: Using morphology to understand ecological invasions. Undergraduate Research Symposium, Sam Houston State University
2015. Schalk C.M., **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
2015. Schalk C.M. & **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
2015. Schalk C.M., **C.G. Montaña** & N.L. Smolensky. Intercontinental convergence of arid adapted amphibians. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM

SERVICE TO PROFESSION

Reviewer for: Frontiers in Environmental Science, Oikos, Ecology & Evolution, Journal of Animal Ecology, Global Change Biology, Ecosphere, Marine and Freshwater Research, Transactions of the American Fisheries Society, Science of the Total Environment, Global Ecology and Biogeography, Freshwater Biology, Freshwater Science, Biological Journal of the Linnean Society, Ecology of Freshwater Fish, Hydrobiologia, Journal of Fish Biology, Austral Ecology, Revista Mesoamericana de la Conservación, Pan-American Journal of

Aquatic Sciences, Aquaculture, Aquarium, Conservation & Legislation-International Journal of the Bioflux Society, Wetlands, Neotropical Ichthyology, Revista de Biología Tropical, Endangered Species Research Journal, Journal of Applied Ecology

Guest Lecturer. West Virginia University (March 2022). Topic: Anthropogenic impacts in aquatic ecosystems. WVU- Student in Freshwater Ecology.

Texas Chapter American fisheries Society 2022 meeting. Judging committee member, Hunt, TX May 17-19, 2022.

Storer Ichthyology, Judging committee member, Joint Meeting of Ichthyologists and Herpetologists 2022. Spokane, WA, July 27-31, 2022.

Reviewer Panel for National Science Foundation (NSF) (May 2021). Invited Reviewer Panel for the NSF MRI proposals.

Associate Editor (2013-Dec 2021): *Neotropical Ichthyology*, Ecology section.

Guest Lecturer. West Virginia University (March 2021). Topic: Anthropogenic impacts in aquatic ecosystems. WVU-Student in Freshwater Ecology.

Guest Lecturer. Wichita State University (Feb 2021). Topic: Tadpoles trophic ecology.

Texas Chapter American fisheries Society 2021 meeting. Panel member for workshop “HIRE: Hiring interviews and resume editing”. (Feb. 2, 2021).

Texas Parks & Wildlife Department. Workshop (2020). Invited scientist Texas Native Fish Conservation Areas Planning. East-Coastal Texas. WSU- Students in Herpetology.

Reviewer Panel for National Estuarine Research Reserve System (NERRS) Science Collaborative Invited reviewer panel for 2020 proposals.

Reviewer panel for CONACYT-Mexico (2019-2020) Invited reviewer panel for The National Council of Science and Technology, Mexico. Research Proposals within the context of “Frontier Science 2019”

Texas Chapter American fisheries Society 2020 meeting. Invited Faculty- Student- Mentor Lunch Annual meeting. Waco, TX Jan. 23-25, 2020.

Texas Chapter American fisheries Society 2020 meeting. Judging committee member, Waco, TX Jan. 23-25, 2020.

Reviewer panel for Swiss National Science Foundation (SNSF) 2019. Invited Reviewer Panel Research project "Molecular evolution and ontogenetic development of dietary adaptations in vertebrates at the micro- and macro-evolutionary scale"

National Science Foundation Workshop (2019). Invited scientist in isotope geochemistry and ecological applications. Fort Collins, Colorado

Scientific Consultant for British Broadcasting Corporation (BBC), Fall 2019. Fishes of the Guiana Shield. Guyana

Professional ASIH Scientist: Speed Networking Workshop 2019, Joint Meeting of Ichthyologists and Herpetologists (JMIH) in Snowbird, UT.

Hutton Program Committee Member of American Fisheries Society. Serving in the committee: Pipelines and pathways for scholars. Fall 2017- present.

Mentor for the Hutton Junior Fisheries Biology Program, American Fisheries Society Summer 2017 – present.

Chair Judging committee, Storer Ichthyology, Joint Meeting of Ichthyologists and Herpetologists. Austin, TX 2017.

DEPARTMENTAL-UNIVERSITY SERVICE

2022-present. University Graduate Council Member 2022- 2023.

2022 (Spring). Annual BioBlitz organized by National Association Interpreter, Stephen F. Austin State University. Team leader of fishes.

- 2021-present. Chair Assessment sub-committee.** Department of Biology, SFASU
- 2020-present. Vehicle Use Committee (Chair).** Department of Biology, SFASU.
- 2021 (Fall).** Volunteer with Saturday Showcase. Department of Biology, SFASU.
- 2021- present. Chair of Committee (Biology for Science Majors II, Biol1307).**
- 2021 (Spring). Invited Instructor** for the Summer Conservation Careers Camp. College of Forestry and Agriculture. SFASU.
- 2021 (Spring). Guest Lecturer. Topic:** Urbanization and impacts in urban aquatic wildlife. Forestry Students at SFASU.
- 2021(Spring). Guest Lecturer: Topic:** Tour of the SFA Fish Collection: Specimens and current research. Forestry Students at SFASU.
- 2021 (Spring). Graduate Student Representative** (member of Committee). Served in thesis defense College of Forestry and Agriculture. SFASU.
- 2021 (Spring). Annual BioBlitz organized by National Association Interpreter, Stephen F. Austin State University.** Team leader fishes.
- 2020-present. College Council Committee (Member).** College of Science and Mathematics, SFASU.
- Fall 2020-Spring 2021. Provost and Executive Vice President for Academic Affairs.** Committee member. SFASU
- 2020-present. Graduate Committee (ad-hoc)**
- 2020-(Summer). Workshop Organizer. R-Workshop for Graduate students. R: Introduction and Applications in Ecology.** Department of Biology, SFASU.
- 2020-(Spring 2020). Judging oral presentations at SFA Graduate Research Conference.**
- 2020-(Spring 2020). Volunteer (Helped with Registration) at the 123rd meeting Texas Academic Sciences 2020.** SFASU.
- 2020. General Biology II** Member of course development team
- 2019 (Fall).** Volunteer with Saturday Showcase. Department of Biology, SFASU.
- 2019. Assistant Professor of Microbiology, Search Committee,** Department of Biology, SFASU.
- 2019-present. Curator of Ichthyology.** Stephen F. Austin State University, Nacogdoches, TX.
- 2019-(Fall). Workshop Organizer. R-Workshop for Graduate students. R: Introduction and Applications in Ecology.** Department of Biological Sciences, SHSU.
- 2018-2019. Associated Curator of Ichthyology,** Sam Houston State University Natural History Collections, Huntsville, TX.
- 2018. Committee member:** Governance Committee Center Biological Field Studies, SHSU.
- 2018. Professional Workshop Speaker:** Summer. Use of Stable Isotope Analysis in Ecology. SFASU.
- 2018. Professional Development Workshop Speaker:** Spring. Techniques in stable isotope analysis in ecology and freshwater habitat bioassessment. University of Guyana, Guyana.
- 2018. Community Outreach:** BioBlitzTeam leader fish group, SHSU.
- 2016-2018. Coordinator and active participant of the ‘Ecology Journal Club’** for graduate and undergraduate students. Department of Biological Sciences, SHSU.
- 2007-2012. Community Outreach:** BioBlitz_Team leader fish group, Texas A&M University.
- 2012. Symposia Judge committee:** Student Research Week. Texas A&M University.
- 2012. Symposia Volunteer:** Ecological Society of America. Austin, TX.
- 2010. Co-chair Ecological Integration Symposium Organizing Committee,** Texas A&M University.

PROFESSIONAL DEVELOPMENT

- 2019.** Foundation of Teaching and Learning. Stephen F. Austin State University.

- 2018.** 15th Annual SHSU Teaching & Learning Conference: *Incorporating High Impact Research Undergraduate*
- 2018.** 15th Annual SHSU Teaching & Learning Conference: *Graduate Education at SHSU: The Big Picture*
- 2018.** 15th Annual SHSU Teaching & Learning Conference: *Team-Based Learning: Increase Student Engagement, Motivation, & Success*
- 2018.** MoSI - STEM Center's Mobile Summer Institute. *One-week Workshop at Sam Houston State University.*

FIELD RESEARCH

United States: Florida, North Carolina, Texas (current research)

International: Venezuela, Peru, Bolivia, India, Brazil, Cambodia, The Bahamas, Mexico, Guyana (current research)

LANGUAGES

Spanish (native), English (second language), Portuguese (Intermediate level)

PROFESSIONAL AFFILIATIONS

Southwestern American Association (2020-present)

Neotropical Ichthyology Association (2003-present)

American Society of Ichthyologists and Herpetologists (2001-present)

American Cichlid Association (2007-2012)

Texas Chapter of the American Fisheries Society (2007-present)

American Fisheries Society (2007-present)

Ecological Society of America (2010-present)