

CURRICULUM VITAE– April 2024

Kirk Owen Winemiller

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Professional Positions***Dates***

University Distinguished Professor, Texas A&M University	Apr. 2019-present
Regents Professor, Texas AgriLife Research	Jan. 2009-present
Interim Department Head, Department of Ecology and Conservation Biology, Texas A&M University	Jan. 2020-Aug 2023
Interim Department Head, Dept. Wildlife and Fisheries Sciences, Texas A&M University	Oct.-Dec. 2019
Associate Department Head for Undergraduate Programs, Department of Wildlife & Fisheries Sciences, Texas A&M University	June 2011-Aug. 2012
Associate Chair, Interdisciplinary Research Program in Ecology and Evolutionary Biology, Texas A&M University	Jan. 2008-Dec. 2009
Founding Chair, Interdisciplinary Research Program in Ecology and Evolutionary Biology, Texas A&M University	Oct. 2004-Dec. 2007
Professor, Dept. Wildlife & Fisheries Sciences, Texas A&M Univ.	Sept. 2002-present
Associate Professor, Dept. Wildlife & Fisheries Sciences, Texas A&M U.	Sept. 1996-Aug. 2002
Fulbright Visiting Graduate Faculty, University of the Western Llanos, Venezuela	May-Sept. 1997
Visiting Graduate Faculty, University of Oklahoma, Norman	July 1994-1995
Assistant Professor, Dept. Wildlife & Fisheries, Texas A&M University	May 1992-Aug. 1996
Research Associate- Oak Ridge National Lab, Environmental Sciences Division, Oak Ridge, TN & Graduate Program in Ecology, University of Tennessee, Knoxville	1990-1992
Lecturer- Department of Zoology, University of Texas, Austin	1987-88, 1990
Fulbright Research Associate- Zambia Fisheries Department	1989
Curator of Fishes- TNHC, Texas Memorial Museum, Austin	1988-89
Graduate Assistant Instructor- University of Texas, Austin	1981-83, 1986-87

Education

Ph.D. (Zoology)– University of Texas, Austin, TX, 1987

M.S. (Zoology)– Miami University, Oxford, OH, 1981

B.A. (Zoology)– Miami University, Oxford, OH, 1978

External Awards & Professional Honors

2019-2021– President-elect, President, Past President, Texas Chapter American Fisheries Society

2018– AFS Award of Excellence, American Fisheries Society’s Highest Award for Career Research

2018– AFS Fellow (elected), American Fisheries Society

2018– ESA Fellow (elected), Ecological Society of America

2013– Special Recognition in Fisheries Work, Texas Chapter American Fisheries Society

2012– Outstanding Fisheries Research Award, Texas Chapter American Fisheries Society

2007– AAAS Fellow (elected), American Association for the Advancement of Science

2001– Ecological Society of America Delegate for TAMU 125th Anniversary Convocation

1997– Southwestern Association of Naturalists George Miksch Sutton Award in Conservation Research (for paper– *SW. Nat.* 40:314-321 co-authored with Anderson, Hubbs, Edwards)

1997– U.S. Fulbright Scholar Fellowship (Venezuela)

1994– Society of Sigma Xi (elected)

1992– Mercer Award, Ecological Society of America (for paper– *Ecological Monographs* 60, 331-367)

1992– Phi Beta Delta Honor Society for International Scholars (Alpha Eta Chapter)

1989– U.S. Fulbright Scholar Fellowship (Zambia)

Institutional Awards & Professional Honors

2019– University Distinguished Professor, Texas A&M University

2018– Senior Faculty Fellow, Texas AgriLife Research, TAMU agency award

2017– Vice-Chancellor’s Research Award, College of Agriculture and Life Sciences, TAMU college/agency award

2016– Dean’s Outstanding Achievement Award for International Impact, College of Agriculture and Life Sciences, TAMU college-level

2015– Distinguished Achievement Award for Research, Association of Former Students, TAMU University system-wide award

2013– Dean’s Outstanding Achievement Award for Research as an Interdisciplinary Research Team, College of Agriculture and Life Sciences, TAMU college award

- 2009– Bush Excellence Award for Faculty International Teaching, TAMU system-wide award
- 2009– Regents Professor, Texas AgriLife Research, TAMU system-wide award
- 2008– President’s Award for Excellence in Service to International Students, TAMU system-wide award
- 2008– Faculty Fellow, Texas AgriLife Research, TAMUS agency award
- 2004– Vice-Chancellor’s Undergraduate Teaching Award, College of Agriculture and Life Sciences, TAMU system-level award
- 2003– Vice-Chancellor’s Graduate Teaching Award, College of Agriculture and Life Sciences, TAMU system-level award
- 2002– Faculty Fellowship, TAMU university award
- 1997– TAMU College of Agriculture and Life Sciences, Neuhaus Teaching Scholarship, college award
- 1994, 1996– TAMU Nominee (1-of-2) for NSF Presidential Faculty Fellowship system-wide selection
- 1982– University Summer Fellowship (University of Texas) university-wide selection
- 1981– Outstanding Master's Student Research Award (Miami University) university-wide award
- 1980-1981– Graduate Student Achievement Award (Miami University) departmental award
- 1977– Phi Sigma Scientific Honor Society (Miami University) university-wide selection

Awards Received by Advisees

- Yasmin Quintana, PhD student, 2023, Guatemalteca Ilustre, Categoria Cientifica (award from the Guatemalan government)
- Benton Fry, PhD student, 2022, EEB Interdisciplinary Doctoral Program Fellowship
- Yasmin Quintana, PhD student, 2022, Texas A&M Tom Slick Fellowship
- Yasmin Quintana, PhD student, 2021, Faculty for the Future Fellowship, Schlumberger Foundation
- Yasmin Quintana, PhD student, 2021, AAUW Fellowship
- Tori Spencer, PhD student, 2021, NSF Predoctoral Fellowship
- David Saenz, PhD student, 2020, Fulbright Postdoc Fellowship (Brazil)
- Tori Spencer, PhD student, 2019, Texas A&M Aviles-Johnson Fellowship
- Friedrich Keppeler, PhD student, 2019, Texas A&M Tom Slick Fellowship
- David Saenz, PhD student, 2019, Texas A&M Tom Slick Fellowship
- Yasmin Quintana, PhD student, 2019, Will Roach Scholarship
- Daniel Fitzgerald, PhD student, 2018, Haldane Prize awarded annually by the British Ecological Society for best paper published by a young ecologist (Fitzgerald et al. 2017, *Functional Ecology* 31:1135-1144)

Luke Bower, PhD student, 2017, Texas A&M Tom Slick Fellowship
Yasmin Quintana, PhD student, 2016, Russell E. Training Fellowship, World Wildlife Fund
Caroline Arantes, PhD student, 2016, Texas A&M Tom Slick Fellowship
Caroline Arantes, PhD student, 2015, Texas A&M College of Agriculture and Life Sciences,
Vice Chancellor's Award for Outstanding Graduate Student Research
Dan Fitzgerald, PhD student, 2015, Texas A&M Tom Slick Fellowship
Luke Bower, PhD student, 2013, Texas A&M Diversity Fellowship
David Saenz, PhD student, 2013, Texas A&M Diversity Fellowship
Rebecca Pizano, MSc student, 2013, Texas Chapter American Fisheries Society, Outstanding
Graduate Student Research
Carmen Montaña, PhD student, 2011, Texas A&M College of Agriculture and Life Sciences,
Vice Chancellor's Award for Outstanding Graduate Student Research
Carmen Montaña, PhD student, 2011, Texas A&M Tom Slick Fellowship
Katherine Roach, PhD student, 2011, Texas Chapter American Fisheries Society, Outstanding
Graduate Student Research
Katherine Roach, PhD student, 2011, Texas A&M Tom Slick Fellowship
Daniel Fitzgerald, PhD student, 2011, Best Poster, Texas Chapter American Fisheries Society
Sandra Bibiana Correa, PhD student, 2010, Texas A&M Tom Slick Fellowship
Allison Pease, PhD student, 2009, Texas A&M Tom Slick Fellowship
Katherine Roach, PhD student, 2007, Texas Chapter American Fisheries Society, Clark Hubbs
Student Research Award
Hernán López Fernández, PhD student, 2003, 2004, Best Paper, Neotropical Ichthyological
Association
Craig Layman, PhD student, 2004, Texas A&M College of Agriculture and Life Sciences,
Vice Chancellor's Award for Outstanding Graduate Student Research
Craig Layman, PhD student, 2003, US Fulbright Scholar Fellowship (Venezuela)
Craig Layman, PhD student, 2002, Texas A&M Tom Slick Fellowship
Craig Layman, PhD student, 2000, EPA STAR Fellowship
Albrey Arrington, PhD student, 2000, Best Paper, Neotropical Ichthyological Association
Albrey Arrington, PhD student, 1998, Texas A&M Tom Slick Fellowship
Albrey Arrington, PhD student, 1998, Texas A&M Jordan Fellowship
David Jepsen, PhD student, 1998, Texas A&M Tom Slick Fellowship
Bonnie Ponwith, PhD student, 1997, Texas A&M Jordan Fellowship
Bonnie Ponwith, PhD student, 1997, National Security Education Program Fellowship
David Jepsen, PhD student, 1995, Texas A&M Jordan Fellowship
Alphonse Adite, MSc student, 1994, Phi Beta Delta Honor Society for International Scholars
Tamara McGuire, MSc student, 1993, Texas A&M Willie May Harris Fellowship

Alphonse Adite, MSc student, 1992, US State Department, Advanced Training in Leadership for Africans Fellowship

Invited Panels and Boards

- 2023-2026– Executive Committee, University Distinguished Professors, Texas A&M University (elected)
- 2023-2024– Board of Trustees, Brazos Valley Museum of Natural History, College Station, Texas (elected)
- 2019-2021– Review team for Statewide Synthesis of Environmental Flow Studies, Expert science team contracted by the Texas Water Development Board to review studies conducted under Texas Senate Bill 3 and to make recommendations for future research and applications within an adaptive management paradigm.
- 2016– Review Panel (1 of 8 members) for proposals submitted to the Aquatic Biodiversity Research Program of the U.S. Agency for International Development (USAID) Partnerships for Enhanced Engagement in Research (PEER) program
- 2013-2014– Review Team (1 of 4 members) for setting flow criteria for priority tributaries to the Sacramento-San Joaquin Delta in California. The Review Team evaluated the California State Water Resources Control Board’s document entitled “Potential Methods to Develop Flow Criteria for Priority Tributaries to the Sacramento-San Joaquin Delta” and made recommendations for strategies and methodologies
- 2011-present– Bay and Basin Expert Science Team (BBEST) for the Brazos River Basin (elected by regional stakeholder group for 12-month effort funded by the state, with ongoing advisory role); BBEST Co-chair; Ecology Subcommittee. BBEST reviewed scientific information and performed analyses to recommend environmental flows for basin rivers, streams, and estuaries. Program mandated by Texas SB 3/HB 3 (2007) to assist state agencies in future water rights permitting and regional water planning
- 2010-2016– Board of Trustees, The Texas Nature Conservancy (two 3-year terms); Freshwater Conservation Subcommittee
- 2009– Special Committee to assist the Science Advisory Board for Texas Senate Bill 3 Environmental Flows Committee to produce guidance document on biology overlays for the Bay and Basin Science Teams
- 2008-2014– Bay and Basin Expert Science Team (BBEST) for the Sabine/Neches River Basins and Sabine Lake (elected by regional stakeholder group for state-funded effort); Chair Biology Subcommittee. BBEST reviewed scientific information and performed analyses to recommend environmental flows for basin rivers, streams, and estuaries. Program mandated by Texas SB 3/HB 3 (2007) to assist state agencies in future water rights permitting and regional water planning
- 2007– NSF Review Panel, Ecology Program, Division of Environmental Biology, Arlington, VA
- 2006-present– International Advisory Committee, Pan-American Journal of Aquatic Sciences

- 2006– Panel to address management of exotic invasive fishes in Texas, San Antonio River Authority, San Antonio, TX
- 2006-2008– State of Texas, Scientific Advisory Committee (SAC) for the Legislature’s Environmental Flows Committee (Texas Senate Bill 2 program)
- 2004-2007– EPA Texas Aquatic Life Use Committee, US Environmental Protection Agency
- 2004-2005– Panel for Environmental Flows for Caddo Lake, Caddo Lake Institute and The Nature Conservancy, Jefferson, TX
- 2004-2005– NAAT Committee for Aquatic Diversity, Texas Parks and Wildlife Department
- 2004– Advisory Board, Conference on Aquatic Biodiversity Conservation, American Museum of Natural History, New York
- 2004-2011– University Council on Water Resources, TAMU delegate
- 2003-2004– NRC Panel to Review the Texas Instream Flow Program, National Research Council, National Academy of Sciences, Washington, DC
- 2001– Emiquon Science Advisory Council, The Nature Conservancy of Illinois
- 2001-2010– USFWS Rio Grande Fishes Recovery Team (Consultant), US Fish and Wildlife Service
- 2000– EPA Panel, Aquatic Ecosystem Classification, US Environmental Protection Agency, Washington, DC
- 1999-2004– USFWS Devils River Minnow Recovery Team, US Fish and Wildlife Service
- 1999– Program Review Panel, Future of Ichthyology in Bolivia, Cochabamba, Bolivia
- 1998-2001– Advisory Board, Freshwater Fisheries Management, Texas Parks and Wildlife Department
- 1998– EPA Panel, Alabama Center for Estuarine Studies, US EPA, Washington, DC
- 1996– Program Review Panel, River Floodplain Ecology, Universidade Estadual de Maringá, Brazil
- 1995– NSF Review Panel, Postdoctoral Research Fellowships in Biosciences Related to the Environment, Leesburg, VA
- 1995– Program Review Panel, All Taxa Biological Inventory, Guanacaste Conservation Area, Costa Rica
- 1993-1994– EPRI/COMPMECH Coordinator's Committee, Dauphin Island, AL
- 1990-1991– EPRI/ COMPMECH Committees advising fish population dynamics modeling efforts, Algonquin National Park, Ontario, Canada; Durham, NC; Colombia, SC; Madison, WI

Professional Societies

American Society of Ichthyologists and Herpetologists (1982-present)

Ecological Society of America (1987-present)
 Southwestern Association of Naturalists (1988-present)
 Neotropical Ichthyological Association (1989-present)
 American Society of Naturalists (1990-present)
 American Institute of Biological Sciences (1991-present)
 American Fisheries Society (1991-present)
 Texas Chapter American Fisheries Society (1992-present)
 Society of Sigma Xi (1994-present)
 Desert Fishes Council (2001-present)
 American Association for the Advancement of Science (2001-present)
 Brazilian Ichthyological Society (2003-present)

Service to Professional Societies

Selection Committee, American Fisheries Society Award of Excellence, American Fisheries Society Fellows (2022-present)
 Editorial Board (Associate Editor), *Ecology*, *Ecological Monographs*, *Ecosphere*, Ecological Society of America (2001-2022)
 President, Texas Chapter American Fisheries Society (2020)
 President-elect, Texas Chapter American Fisheries Society (2019), principal organizer of 2020 annual meeting
 Award Selection Committee, Clark Hubbs Student Research Award, Texas Chapter American Fisheries Society (2014-present)
 Session Chair, Annual Meeting, American Society of Ichthyologists and Herpetologists, Austin, Texas (2017)
 Judge, Poster Presentations, Annual Meeting, Texas Chapter American Fisheries Society, Corpus Christi, Texas (2017)
 Proposed, organized, and chaired two special sessions on environmental flows and river ecosystem connectivity at the Meeting of the Ecological Society of America, Austin, TX (2011)
 Board of Governors (elected), American Society of Ichthyologists and Herpetologists (2005-2009)
 TAMU Chapter Sigma Xi, Distinguished Scientist Award Selection Committee (2008, 2009)
 Buell Award Judge, Ecological Society of America (2001)
 Stoye Award Judge, American Society of Ichthyologists and Herpetologists (2000, 2001, 2003)
 Nominating Committee (elected), American Society of Ichthyologists and Herpetologists (1999-2001; Elected Chair 2000-2001)
 Assistant Editor, *Journal of Fish Biology*, Fisheries Society of the British Isles (1998-2003)

Board of Governors (elected), American Society of Ichthyologists and Herpetologists (1997-2001)

Associate Editor, *Transactions of the American Fisheries Society*, American Fisheries Society (1995-1996)

American Fisheries Society, Judge for Publications Award (1995-1998)

American Fisheries Society, Judge for Education Excellence Award (1995-1999)

American Fisheries Society, Judge for Skinner Student Travel Awards (1995)

Texas Chapter American Fisheries Society, Awards Committee (1995)

TAMU Chapter American Fisheries Society, Judge for Student Awards (1995, 1996)

American Society of Ichthyologists and Herpetologists, Editorial Board, *Copeia* (1994-1998)

Ecological Society of America, Judge for Mercer Award (1993, 1994)

American Society of Ichthyologists and Herpetologists, Ichthyology Program Chair & Local Committee (1993)

American Society of Ichthyologists and Herpetologists, Symposium Organizer (1993)

Neotropical Ichthyological Association, Executive Board (1992-1993)

SW & Rocky Mountain Division of the American Association for the Advancement of Science, Local Organizing Committee (1987)

American Society of Mammalogists, Local Organizing Committee (1980)

Research Areas

General– Population, Community and Ecosystem Ecology; Evolutionary Theory; Aquatic Ecology; Systematics and Biology of Fishes; Freshwater and Estuarine Ecology; Tropical Ecology; Fisheries Management; Conservation Biology.

Specific– Trophic Ecology and Food Web Theory; Regulation of Populations and Community Structure; Dynamics of Fluvial and Estuarine Ecosystems; Life History Theory; Convergent Evolution, Feeding and Reproductive Biology of Fishes; Fish Evolution; Biodiversity Conservation and Sustainable Use of Natural Resources.

Refereed Journal Articles (student & postdoc advisees underlined)

279. Winemiller, K.O., J.S. Perkin, J.F. Tringale, D.J. Hoeinghaus, G.W. Moore, A.N. Schwalb, Z.A. Mitchell, A. Trimble, C. Reeves, M.R. Acre, K. Wheeler, T.B. Hardy, and D. Buzan. 2024. Advancing the state of environmental flows science: monitoring, hindcasting and forecasting flow-ecology relationships. *Fisheries*, In press.

278. Bokhutlo, T., E.R. Cunha, and K.O. Winemiller. 2023. Inference of assembly mechanisms of fish communities in the Okavango Delta using joint species distribution models and trophic guilds. *Open Journal of Ecology* 13(7):497-515. DOI: [10.4236/oje.2023.137030](https://doi.org/10.4236/oje.2023.137030)

277. Andrade, M.C., M.A. Zuluaga-Gómez, R. Andrades, J. Conceição, O. Lisboa, K.O. Winemiller, and T. Giarrizzo. 2023. Food web structure in the Xingu River rapids prior to operation of the Amazon's largest hydropower plant. *Aquatic Sciences* 85:74. <https://doi.org/10.1007/s00027-023-00971-x>
276. Quintana Morales, Y., F.W. Keppeler, and K.O. Winemiller. 2023. Does invasion by armored catfish shift trophic ecology of native fishes? Evidence from stable isotope analysis. *Ecology* 104(5):e4024. <https://doi.org/10.1002/ecy.4024>
275. Winemiller, K.O., M.C. Andrade, C.C. Arantes, T. Bokhutlo, L.M. Bower, E.R. Cunha, F.W. Keppeler, E.O. López-Delgado, Y. Quintana Morales, D.E. Saenz, K.B. Mayes, C.R. Robertson. 2023. Can spatial food web subsidies associated with river hydrology and lateral connectivity be detected using stable isotopes? *Food Webs* 34:e00264. <https://doi.org/10.1016/j.fooweb.2022.e00264>
274. Perkin, J.S., M.R. Acre, J.K. Ellard, A.W. Rodger, J. Trungale, K.O. Winemiller, and L.E. Yancy. 2023. Flow-recruitment relationships for Shoal Chub (*Macrhybopsis hyostoma*) and implications for managing environmental flows. *North American Journal of Fisheries Management* 43:1260-1275. <https://doi.org/10.1002/nafm.10837>
273. Cantanhêde, L., F. Barreto Teresa, K.O. Winemiller, D.J. Hoeinghaus, and L. Montag. 2023. Dark diversity in Amazonian stream fish communities. What factors determine species absence along environmental gradients? *Freshwater Biology* 68(1):1-11.
272. Smolensky, N.L., L.A. Fitzgerald, and K.O. Winemiller. 2023. Trophic ecology of African dwarf crocodiles (*Osteolaemus* spp.) in perennial and ephemeral aquatic habitats. *Journal of Herpetology* 57(1):60-69. <https://doi.org/10.1607/21-076>
271. Roberts, H.C., M.R. Acre, D.J. Daugherty, M. Claus, F. Kappen, K.O. Winemiller, and J.S. Perkin. 2022. Tributary streams provide migratory fish with access to floodplain habitats in a regulated river: evidence from alligator gar, *Atractosteus spatula*. *Canadian Journal of Fisheries and Aquatic Sciences* 80:393-407. [dx.doi.org/10.1139/cjfas-2022-0076](https://doi.org/10.1139/cjfas-2022-0076)
270. Wu, J., K.O. Winemiller, S. Wu, W. Xu, H. Chen, X. Wu, and B. Jin. 2022. Seasonal variation in dietary overlap between red swamp crayfish (*Procambarus clarkii*) and native species in Poyang Lake wetland, China. *Frontiers in Environmental Science* 10:923962. <https://doi.org/10.3389/fenvs.2022.923962>
269. Keppeler, F.W., M.C. Andrade, P.A.A Trindade, L.M Sousa, C.C Arantes, K.O. Winemiller, O.P. Jensen, and T. Giarrizzo. 2022. Early impacts of the largest Amazonian hydropower project on fish communities. *Science of the Total Environment* 838:155951. [dx.doi.org/10.1016/j.scitotenv.2022.155951](https://doi.org/10.1016/j.scitotenv.2022.155951)
268. Willis, S.C., D.E. Saenz, G. Wang, C.M. Hollenbeck, L.A. Rocha, D.S. Portnoy, J.J. Cai, and K.O. Winemiller. 2022. Osmoregulation in freshwaters: Gene expression in the gills

- of a Neotropical cichlid in contrasting pH and ionic environments. *Conservation Genetics Resources* 14:391-401. doi.org/10.1007/s12686-022-01284-1
267. Oladimeji, T.E., I. Caballero, M.O. Awodiran, K.O. Winemiller, A. Adite, and L.A. Hurtado. 2022. Genetic differentiation among regional stocks of the African bonytongue, *Heterotis niloticus* (Osteoglossiformes: Arapaimidae), in Nigeria. *Scientific Reports* 12(1):8417. doi: 10.1038/s41598-022-12428-6.
266. Angulo-Valencia, M.A., R.M. Dias, D.C. Alves, K.O. Winemiller, and A.A. Agostinho. 2022. Patterns of functional diversity of native and non-native fish species in a neotropical floodplain. *Freshwater Biology* 67:1301-1315. doi/10.1111/fwb.13918
265. Jin, B., K.O. Winemiller, D. Tickner, X. Wei, W. Ren, Q. Li, X. Gao, H. Zhang, P.S. Pompeu, M. Goichot, S-k. Wang, R. Shen, and X-p. Wu. 2022. Yangtze River at a crossroads: Basin-scale approach needed for fisheries restoration. *Fish and Fisheries* 23:1009-1015. doi/10.1111/faf.12657
264. Bokhutlo, T., F.W. Keppeler, and K.O. Winemiller. 2021. Seasonal hydrology influences energy channels in food webs of rivers in the lower Okavango Delta. *Environmental Biology of Fishes* 104:1303-1319.
263. Pelegrin, N., L.J. Vitt, D.B. Fitzgerald, K.O. Winemiller, and E.R. Pianka. 2021. How do lizard niches conserve, diverge or converge? Further exploration of saurian evolutionary ecology. *BMC Ecology and Evolution* 21:149 <https://doi.org/10.1186/s12862-021-01877-8>
262. Saenz, D.E., T. Gu, Y. Ban, K.O. Winemiller, and M.R. Markham. 2021. Derived loss of signal complexity and signal plasticity in a genus of weakly electric fish. *Journal of Experimental Biology* 224. <https://doi:10.1242/jeb.242400>
261. de Bem, J., J. Ribolli, C. Röpke, K.O. Winemiller, and E. Zaniboni-Filho. 2021. A cascade of dams affects fish spatial distributions and functional structure of local assemblages in a subtropical river. *Neotropical Ichthyology* 19(3). <https://doi.org/10.1590/1982-0224-2020-0133>
260. Bower, L.M., D.E. Saenz, and K.O. Winemiller. 2021. Widespread convergence in stream fishes. *Biological Journal of the Linnean Society*. 133(3):863-879. <https://doi.org/10.1093/biolinnean/blab043>
259. Bokhutlo, T., E.R. Cunha, and K.O. Winemiller. 2021. Ephemeral habitat sustains high fish α -diversity and β -diversity during drought in a subtropical semiarid wetland. *Biotropica* 53:778-785.
258. Albert, J.S., G. Destouni, S.M. Duke-Sylvester, A.E. Magurran, T. Oberdorff, R.E. Reis, K.O. Winemiller, and W.J. Ripple. 2021. Scientists' warning to humanity on freshwaters. *Ambio* 50:85-94. <https://doi.org/10.1007/s13280-020-01318-8>

257. Soria-Barreto, M., R. Rodiles-Hernández, C.G. Montaña, M.M. Castillo, and K.O. Winemiller. 2020. Seasonal variation in basal resources supporting fish biomass in longitudinal zones of the Usumacinta River Basin, southern Mexico. *Marine and Freshwater Research* 72:353-364.
256. Chea, R., T.K. Pool, M. Chevalier, P.B. Ngor, N. So, K.O. Winemiller, S. Lek, and G. Grenouillet. 2020. Seasonal hydrological variation and fish assemblage structure in Cambodia's Tonle Sap Lake: abrupt shift following an extreme flood event. *Ecosphere* 11(12): e03303.
255. Keppeler, F.W. and K.O. Winemiller. 2020. Incorporating indirect pathways in body size-trophic position relationships. *Oecologia* 194:177-191.
254. Keppeler, F.W. and K.O. Winemiller. 2020. Can ancestry and morphology be used as surrogates for species niche relationships? *Ecology and Evolution* 10(13):6562-6578.
253. Müller Rebelato, M., K.O. Winemiller, A.M. Durso, A.M. Tozetti, P. Barbosa de Camargo, and L. Verrastro. 2020. What do stable isotopes tell us about the trophic ecology of *Thamnodynastes hypoconia* (Serpentes: Dipsadidae) in southern Brazil? *Zoology* 141:125812. doi.org/10.1016/j.zool.2020.125812
252. Huckembeck, S., K.O. Winemiller, D. Loebmann, A.M. Garcia. 2020. Trophic structure of frog assemblages in coastal habitats in southern Brazil. *Austral Ecology* 45(7):977-989. doi:10.1111/acc.12920.
251. Keppeler, F.W., C.G. Montaña, and K.O. Winemiller. 2020. The relationship between trophic level and body size in fishes depends on functional traits. *Ecological Monographs* 90(4) e01415.
250. Sabaj, M.H., H. López-Fernández, S.C. Willis, D.D. Hemraj, D.C. Taphorn, and K.O. Winemiller. 2020. *Cichla cataractae* (Cichliformes: Cichlidae), new species of peacock bass from the Essequibo Basin, Guyana and Venezuela. *Proceedings of the Academy of Natural Sciences of Philadelphia* 167(1):69-86.
249. Arbour, J.H., C.G. Montaña, K.O. Winemiller, A.A. Pease, M. Soria-Barreto, J.L. Cochran-Biederman, and H. López-Fernández. 2020. Macroevolutionary analyses indicate that repeated adaptive shifts towards predatory diets affect functional diversity in Neotropical cichlids. *Biological Journal of the Linnean Society* 129(4):844-861.
248. Thayer, A.W., A. Vargas, A.A. Castellanos, C.W. Lafon, B.A. McCarl, D.L. Roelke, K.O. Winemiller, and T.E. Lacher. 2020. Integrating agriculture and ecosystems to find suitable adaptations to climate change. *Climate*, 8(10):10, doi:10.3390/cli8010010
247. Montaña, C.G., C. Ou, F.W. Keppeler, and 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(2):185-200.

246. López-Delgado, E.O., K.O. Winemiller, and F.A. Villa-Navarro. 2020. Local environmental factors influence beta diversity patterns of tropical fish assemblages more than spatial factors. *Ecology* 101(2): e02940.
245. Bower, L.M. and K.O. Winemiller. 2020. Inter-continental trends in functional and phylogenetic structure of stream fish assemblages. *Ecology and Evolution* 9(24):13862-13876. <https://doi.org/10.1002/ece3.5823>
244. Keppeler, F.W., E.R. Cunha, and K.O. Winemiller. 2020. Variation in carbon and nitrogen isotopic ratios of fin and muscle tissues of longnose gar (*Lepisosteus osseus*) and smallmouth buffalo (*Ictiobus bubalus*). *Journal of Applied Ichthyology* 36(1):121-124.
243. Arantes, C.C., K.O. Winemiller, A. Asher, M. Petrere, L. Castello, C.E.C. Freitas, and L.L. Hess. 2019. Biomass distribution of fish functional diversity is related to land cover on the Amazon River floodplain. *Scientific Reports (Nature)* 9(16684):1-13. www.nature.com/articles/s41598-019-52243-0.pdf
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Invited Plenary & Symposium Lectures – International

- 2023– “Adaptation to climate change, water, and ecological winners and losers”, XXXII Congresso Nazionale della Società Italiana di Ecologia, Catania, Sicily (delivered online).
- 2021– “Nearly 30 Years Collaborating with NUPELIA/PEA” Invited lecture, 30 Year Anniversary Symposium, Graduate Program in Ecology of Inland Waters, Universidade Estadual de Maringá, Brazil.
- 2019– “Inheritors of the Earth: Improbable or Probable Destinies of Freshwater Fishes?” Invited plenary lecture, Biennial Conference of the Brazilian Ichthyological Society, Belem, Brazil.
- 2019– “Choosing indicators and models for impact assessment of rivers that have been, or will be, damned” Invited symposium lecture, Biennial Conference of the Brazilian Ichthyological Society, Belem, Brazil.
- 2017– “Why does environmental pulsing promote productivity and resilience?” International Symposium on Flood-pulse Ecosystems, Siem Reap, Cambodia
- 2017– “Improving ecological forecasting by merging periodic tables of niches with individual-based modeling of food web dynamics”, Invited plenary lecture, Biennial Conference of the Brazilian Ichthyological Society, Porto Seguro, Brazil.
- 2017– “Impacts of dams in major tropical rivers”, Invited symposium talk, Biennial Conference of the Brazilian Ichthyological Society, Porto Seguro, Brazil.

- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited plenary lecture, IV Latin American Symposium of Ichthyology, San José, Costa Rica.
- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited plenary lecture, Congreso Colombiano de Ictiología, Leticia, Colombia.
- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited symposium talk, Special Session on Functional Traits in Fish Ecology, Biennial Conference of the Brazilian Ichthyological Society, Recife, Brazil.
- 2013– “Ecologia de Redes Tróficas – Analogia com Cartografia e Anatomia”, Plenary talk, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.
- 2013– “Coexistência de Peixes com Diferentes Estratégias de Vida: Respostas Nicho-Dependentes a Variações Ambientais”, Roundtable, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.
- 2013– “Programa Ciência sem Fronteiras: Conselhos para Encontrar uma Instituição e um Orientador no Exterior”, Roundtable, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.
- 2012– “Food Web Ecology– Analogy with Cartography and Anatomy” Plenary talk, Fifth Argentinian Congress of Limnology, Santa Fe, Argentina.
- 2011– “Ecologia de Peixes Neotropicais: Situação Atual e Perspectivas” Plenary talk, 19th Biennial Conference of the Brazilian Ichthyological Society, Manaus, Brazil.
- 2009– “Are Successful Fish Invasions Only from Species-rich into Species-poor Communities?” Invited talk, Symposium: The Future of Fish Biogeography, Annual Meeting of the International Ecological Society, Brisbane, Australia.
- 2003– “Food Web Science: Moving on the Path from Abstraction to Prediction” (Plenary lecture) Third Decadal Food Web Symposium, Giessen, Germany.
- 2003– “Ecology of African Fishes: Scientific Paradigms and Resource Conservation” (Plenary lecture) African Fish and Fisheries Conference, Cotonou, Benin.
- 2003– “Sources of Production for Food Webs” in Large Rivers, 2nd Large Rivers Symposium, Phnom Penh, Cambodia.
- 1999– “Role of Fishes in Tropical Floodplain Food Webs”, Plenary talk- 1st Congress of Bolivian Limnology and Aquatic Resources Management, Cochabamba, Bolivia.
- 1998– “Tropical River Food Webs-Effects of Fish Movement”, Plenary talk- 13th Biennial Conference of the Brazilian Ichthyological Society, São Carlos, Brazil.
- 1998– “Effects of Seasonality and Fish Movement on Tropical River Food Webs”, Symposium on Tropical Fish Biology, Fisheries Society of the British Isles, Southampton, England (with D. Jepsen).
- 1998– “Migratory Fishes Subsidize Foodwebs of Oligotrophic Rivers in the Neotropics”, Symposium on Cross-Habitat Exchanges of Nutrients, Consumers, and Predators, International Ecological Society, Florence, Italy.
- 1994– “Structural and Functional Aspects of Diversity”, (Keynote) Symposium on Fishes and Their Habitat, Lyon, France.
- 1994– “Food Webs”, Ann. Meet. Canadian Society of Zoologists, Winnipeg, Canada.

Invited Plenary & Symposium Lectures – Professional Societies

- 2019– “River hydrology and the timing of food web subsidies under global change” Invited symposium contribution, Ann Meet. Amer. Fisheries Society, Reno, NV.
- 2019– “Inheritors of the Earth: Improbable or Probable Destinies of Freshwater Fishes?” Plenary talk, Ann. Meet. Brazilian Ichthyological Society, Belem, Brazil.
- 2019– “Choosing indicators and models for impact assessment of rivers that have been, or will be, damned” Invited symposium contribution, Ann. Meet. Brazilian Ichthyological Society, Belem, Brazil.
- 2015– “Evidence for Biotic Resistance in Highly Diverse Tropical Rivers”, Invited symposium contribution, Centennial Conference of the Ecological Society of America, Baltimore, MD (with D. Fitzgerald).
- 2015– “Influence of Deforestation on Fish Diversity and Biomass in the Amazon River”, Invited symposium contribution, Centennial Conference of the Ecological Society of America, Baltimore, MD (with C. Arantes).
- 2009– “Biodiversity, Ecological Complexity and Flood Dynamics of Tropical Rivers: Can We Make River Ecology a Predictive Science?” Plenary talk, Biennial Meeting of the International Society for River Science, Tampa, FL.
- 2004– “In Search of the Periodic Table of Niches: Fishes Could Help Ecological Alchemy Evolve into Modern Science” Pianka Symposium, Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK.
- 2003– “Life History Strategies, Population Regulation, and Their Implications for Fisheries Management” Exploring Beverton’s Legacy Symposium, Ann Meet. American Fisheries Society, Quebec City, Canada.
- 1999– “Variation in Fish Assemblages of Brazos River Oxbow Lakes”, Invited Talk, Freshwater and Marine Science Session, Ann. Meet. Texas Academy of Sciences, Seguin, TX.
- 1998– “The Influence of Life History Strategies on Dynamics of Exploited Fish Populations from Lakes to Oceans”, Symposium on Ecology of Exploited Fish Populations- from Lakes to Oceans, American Society for Limnology and Oceanography, St. Louis, MO.
- 1997– “Conservation of Aquatic Diversity of River Floodplains: An Intermediate Disturbance Perspective”, Symposium on Conservation of Large River Floodplains, Annual Meeting of the Society for Conservation Biology (with D. Jepsen).
- 1996– “Relationships between Fish Life History Strategies and Population Responses to Disturbances” (Plenary lecture), Ann. Meet. AFS Western Div., Eugene, OR.
- 1996– “Longterm Dynamics of a Floodplain Fish Assemblage in the Venezuelan Llanos”, Neotropical Ichthyology Symposium, Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, New Orleans, LA.
- 1995– “Fisheries and Water Management in River-Swamp Systems”, Ann. Meet. AFS, Tampa, FL.
- 1995– “Imperiled Fishes and Aquatic Communities Across the Southern Landscape: Spatiotemporal Data Bases for the 21st Century”, Ann. Meet. AFS, Tampa, FL.

- 1993– “Fish Ecology in Latin America” (Organizer- NSF funded symposium), Ann. Meet. ASIH, Austin, TX.
- 1992– “Convergence and Divergence of Cichlid Fishes”, Ecomorphology Symposium, Ann. Meet. ASIH, Champaign, IL.
- 1991– “Individual-Based Approach to Modeling Fish Population Dynamics”, Ann. Meet. AFS, San Antonio, TX.

Invited Plenary & Symposium Lectures – Other

- 2023– “Adaptation to Climate Change, Water, and Ecological Winners and Losers”, Invited plenary lecture, Meadows Center for Water and the Environment Symposium, Climate Science: The Good, The Bad, and the Wicked, San Marcos, Texas.
- 2015– “Flows and Fish in Texas Rivers (& The Things We Do To Them)”, Invited plenary lecture, Big Thicket Science Conference, Nacogdoches, Texas.
- 2014– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Plenary talk, Annual Graduate Student Symposium, Biology Department, University of Louisiana at Lafayette.
- 2006– “The Challenge of Keeping All the Parts: Research Needs for Informing Environmental Flows Policy” Plenary talk, Charting the Course Conference, State Capitol, Austin, TX.
- 2005– “Seeking a Sound Ecological Environment: Issues of Scale for Biotic Indicators of Flow Variation” Plenary talk, Flow for the Future Conference, San Marcos, TX.
- 2004– “Scale and Resolution in Instream Flow Assessment” **Instream Flow Workshop hosted by Texas River and Reservoir Management Society and Texas Chapter American Fisheries Society**, College Station, TX.
- 2004– “Interplay between Scale, Resolution, Life History, and Prediction of Food Web Dynamics” First Annual Peter Yodzis Ecology Symposium, University of Guelph, Canada.
- 2001– “Life History Strategies and Population Regulation: Theory Predicts Consequences for Supplemental Stocking of Tarpon”, 1st International Tarpon Symposium, Port Aransas, TX
- 1996, 1995, 1994, 1993– “Science Technology and Youth”, Texas A&M University, College Station.
- 1995– "Texas Endangered Species", Fossil Rim, TX.
- 1993– “Food Webs: Integration of Patterns and Dynamics” (Organizer- NSF funded symposium), Ft. Collins, CO.
- 1990– COMPMECH Bay Anchovy Workshop, Raleigh, NC.
- 1988– "Organization for Tropical Studies Silver Anniversary Symposium", Univ. of Miami, FL.
- 1988– Plenary speaker, Texas Cichlid Association, San Antonio, TX.
- 1986– Tropical Rainforest Symposium, Institute of Latin American Studies, Austin, TX.

Invited Seminars

- 2023– Brigham Young University; Texas A&M University (ECCB graduate seminar series)
- 2022– Texas A&M University (ECCB graduate seminar series)
- 2021– Florida International University
- 2020– Virginia Tech University
- 2019– University of Tennessee; Texas State University; Texas A&M University (WFSC graduate seminar series)
- 2017– Kamutjonga Inland Fisheries Institute, Namibia; University of Dayton; Annual Hynes Lecture, University of New Brunswick, Fredericton, NB, Canada; seminar, University of New Brunswick, Fredericton, NB, Canada; seminar, University of New Brunswick, Saint John, NB, Canada.
- 2016– Distinguished Speaker Series – University of Alabama at Huntsville; Royal University of Phnom Penh, Cambodia; Sam Houston State University; Annual Brandt Lecture – North Carolina State University
- 2015– Universidade Estadual de Londrina, Brazil; Universidade Estadual de Paraná Oeste, Brazil; EEB Program, Texas A&M University
- 2014– Annual Minshall Lecture – Idaho State University; Dept. of Biology, University of Louisiana at Lafayette; EEB Program, Texas A&M University
- 2013– Texas A&M University-Dept of WFSC; University of Wyoming; Nanchang University, Nanchang, China; Fudan University, Shanghai, China
- 2012– Texas A&M University (ABS seminar series); University of North Texas
- 2011– Cornell University; Virginia Tech University; Texas Tech University; Baylor University (2 talks: the Floyd and Lorene Davidson Lecture plus one departmental seminar)
- 2010– Borlaug Institute at Texas A&M University; Charles Darwin University, Australia; Rivers Institute, Griffith University, Australia; University of Oklahoma
- 2009– Sam Houston State University; University of Toronto
- 2008– University of Nebraska; Texas A&M University-Applied Biodiversity Science Series
- 2007– North Carolina State University
- 2006– Auburn University; University of Illinois; University of Texas at Tyler; Texas A&M University at Galveston; Oklahoma State University
- 2005– University of Central Florida; Universidad Veracruzana; Ohio State University
- 2004– Southern Illinois University
- 2003– University of New Mexico/University of Alabama (NSF-IGERT Symposium); TAMU Department of Rangeland Ecology and Management
- 2002– University of Minnesota; University of Texas at Austin; Colorado State University
- 2001– Sam Houston State University

- 2000– University of South Florida; University of the Western Llanos, Venezuela
- 1999– University of New Mexico; Texas Watershed Working Group (TAMUS-TTVN)
- 1998– University of Miami; Florida International University, Institute of Ecology, University of Georgia; TAMU Department of Rangeland Ecology and Management
- 1997– TAMU Entomology Department
- 1996– TAMU Society for Conservation Biology; Universidade Estadual de Maringá, Brazil; University of Miami
- 1995– Texas Aquaculture Association; University of Texas Marine Science Institute; TAMU International Agriculture Program
- 1994– Tulane University; 2 talks for University Oklahoma
- 1993– 3 talks for Universidade Estadual de Maringá, Brazil; Vanderbilt University
- 1992– University of Texas Marine Science Institute
- 1991– University of Guelph; Texas A&M University; Miami University of Ohio; University of Tennessee; 2 talks for Virginia Tech University; Vanderbilt University; University of Maryland; Bowling Green State University; Philadelphia Academy of Natural Sciences; SUNY- Syracuse
- 1990– Oak Ridge National Lab; University of Wisconsin Milwaukee
- 1989– Arizona State University
- 1987– University of Texas Marine Science Institute
- 1985– Tortuguero National Park, Costa Rica; Organization for Tropical Studies, Costa Rica
- 1983– Organization for Tropical Studies, Costa Rica

Contributed Papers at Professional Meetings

- 2024– “Cichlid assemblages in habitats of the Rupununi River, Guyana, during the rising water season” Annual Meeting of the Texas Chapter American Fisheries Society, Nacogdoches, TX (with M. Beeksmá, S. Scott, L. Williams, T. Jackson, K. Hastings, C. Young, J. VanKley, D. Burt, L.K. Winemiller, and C. Montaña)
- 2024– “Fish diversity in habitats of the Rupununi River, Guyana” Annual Meeting of the Texas Chapter American Fisheries Society, Nacogdoches, TX (with S. Scott, M. Beeksmá, L. Williams, T. Jackson, K. Hastings, C. Young, J. VanKley, D. Burt, L.K. Winemiller, and C. Montaña)
- 2023– “Survey of vulnerable Amazonian manatees using environmental DNA (eDNA): Methods for remote settings”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with K. Romoser)
- 2023– “Thresholds of floating meadow fishes to floodplain deforestation in the Amazon River”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy:

- Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with S. Grinstead et al.)
- 2023– “Impacts of mega dams on Amazonian fish and fisheries”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with C. Arantes et al.)
- 2023– “Retrospective analyses of flow-recruitment relationships of periodic life-history strategist fishes”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with D. Hoeinghaus et al.)
- 2023– “Armored catfish invasion shifts trophic ecology of native fishes”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with Y. Quintana and F. Keppeler)
- 2023– “Size, diet, and habitat associations of a recently described peacock bass species, *Cichla cataractae*”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with B. Fry)
- 2023– “What drives stable isotope niche variability? A macroecological analysis with inland fishes”, Symposium- Dr. Kirk Winemiller’s Contributions and Enduring Legacy: Perspectives in Fisheries Science and Conservation across Tropical and Temperate Regions, Annual Meeting of the American Fisheries Society, Grand Rapids, MI (with F. Keppeler et al.)
- 2023– “Armored catfish invasion can shift trophic ecology of native fishes” Latin America and Caribbean Fisheries Congress, Cancun, Mexico (with Y. Quintana, F. Keppeler)
- 2023– “Traelape de nicho isotopico entre plecostomo y peces nativos del Rio Usumacinta en Guatemala” XVIII Congreso Nacional y IX Simposio Latinoamericano de Ictiología, La Paz, Mexico (with T. Quintan, F. Keppeler)
- 2023– “Flood pulse and the temporal dynamics of fish metacommunities in the floodplain of the Middle Paraná River (Argentina)” Annual Meeting of the Texas Chapter American Fisheries Society, Corpus Christi (with P. Scarabotti, P. Alvarenga)
- 2023– “Armored catfish invasion can shift trophic ecology of native fishes” Annual Meeting of the Texas Chapter American Fisheries Society, Corpus Christi (with Y. Quintana, F. Keppeler)
- 2022– “Evolutionary convergence: widespread and sometimes remarkable” Annual Meeting of the American Society of Ichthyologists and Herpetologists, Spokane, WA
- 2022– “Methods for establishing flow-ecology relationships useful for validating environmental flow standards for Texas rivers” Annual Meeting of the Texas Chapter

- American Fisheries Society, Hunt, TX (with J. Perkin, G. Moore, A. Trimble, A. Schwalb, T. Hardy, D. Hoeinghaus, C. Reeves, J. Trungale, D. Buzan)
- 2022– “Flow-recruitment relationships for Shoal Chub (*Macrhybopsis hyostoma*) and implications for managing environmental flows” Annual Meeting of the Texas Chapter American Fisheries Society, Hunt, TX (with J. Perkin, M. Acre, J. Ellard, A. Rodger, J. Trungale, L. Yancy)
- 2022– “Patterns and predictors of Alligator Gar movement across mainstem-tributary ecotones” Annual Meeting of the Texas Chapter American Fisheries Society, Hunt, TX (with J. Perkin, M. Acre, D. Daugherty, F. Kappen, M. Claus, D. Buckmeier)
- 2021– “Environmental flow regimes needed to maintain a sound ecological environment in Texas rivers” Fall Meeting American Geophysical Union, New Orleans, LA (with G. Moore, J. Trungale, J. Perkin, A. Schwalb, T. Hardy, D. Hoeinghaus, C. Reeves & A. Trimble)
- 2019– “Impacts of hydroelectric dams on fishes and fisheries in tropical rivers through the lens of functional traits” Ann. Meet. Amer. Fisheries Society, Reno, NV (with C. Arantes, D. Fitzgerald & D. Hoeinghaus)
- 2019– “Osmoregulatory evolution in freshwaters: Juxtaposition of differentially expressed genes and outlier loci of an Amazon cichlid in contrasting pH and ionic environments” Ann. Meet. Society for Integrative and Comparative Biology, Tampa, FL (with S. Willis & L. Rocha)
- 2019– “Fluxo de energia entre fontes alimentares autoctones e aloctones em dois peixes endêmicos do rio Xingu, Brasil, Ann. Meet. Brazilian Ichthyological Society, Belem, Brazil (with J. Conceição, O. Lisboa, M. Zuluaga-Gomez, T. Giarrizzo & M. Andrade)
- 2019– “Potenciais fontes energeticas para seis especies da familia Cichlidae da bacia no baixo rio Xingu, Brasil, Ann. Meet. Brazilian Ichthyological Society, Belem, Brazil (with J. Conceição, M. Zuluaga-Gomez, T. Giarrizzo & M. Andrade)
- 2019– “Fontes energeticas autoctones para cinco especies da familia Loricariidae endêmicas do rio Xingu, Brasil, Ann. Meet. Brazilian Ichthyological Society, Belem, Brazil (with J. Conceição, O. Lisboa, M. Zuluaga-Gomez, T. Giarrizzo & M. Andrade)
- 2018– “Do Exchanges between the Guadalupe River channel and oxbow lakes influence food web dynamics? Ann. Meet. American Fisheries Society, Atlantic City (with M. Andrade, C. Arantes, T. Bokhutlo, L. Bower, E. Cunha, F. Keppeler, E. Lopez, K. Mayes, Y. Quintana, C. Robertson & D. Saenz)
- 2018– “Do Exchanges between the Guadalupe River channel and oxbow lakes influence food web dynamics? Ann. Meet. Ecological Society of America, New Orleans (with M. Andrade, C. Arantes, T. Bokhutlo, L. Bower, E. Cunha, F. Keppeler, E. Lopez, K. Mayes, Y. Quintana, C. Robertson & D. Saenz)
- 2018– “Canopy arthropods function as trophic links between floodplain forests and fishes in nutrient-poor black-water Amazonian rivers” Ann. Meet. Ecological Society of America, New Orleans (with S.B. Correa)
- 2018– “Fish assemblage convergence along environmental gradients and microhabitats in

- small freshwater streams” Ann. Meet. Ecological Society of America, New Orleans (with L. Bower)
- 2018– “Exploring asymmetries in the relationship between body size and trophic level using a multi-trait approach” Ann. Meet. Ecological Society of America, New Orleans (with F. Keppler & C. Montaña)
- 2018– “Seasonal and spatial variation in fish assemblages of a Caribbean coastal drainage in Guatemala” Ann. Meet. Ecological Society of America, New Orleans (with Y. Quintana, C. Barrientos & E. López)
- 2018– “ α - and β -diversity of freshwater fishes in relation to habitat complexity indicate a trade-off between environmental filtering and species interaction” Ann. Meet. Ecological Society of America, New Orleans (with E. Cunha, L. Gomes, A. Agostinho, J da Silva & T. Lopes)
- 2018– “A model simulating interactions between hydrology, landscape, species traits and biotic interactions to predict food web dynamics in a neotropical freshwater ecosystem” Ann. Meet. Ecological Society of America, New Orleans (with P. Piana, E. Cunha, A. Agostinho, L. Gomes)
- 2018– “Productivity and stability in temporally forced food webs” Ann. Meet. Ecological Society of America, New Orleans (with C. Bieg, K. McCann, L. Johnson & B. McMeans)
- 2018– “The effects of melanocortin hormones on the electric organ discharge of two weakly electric fish” Ann. Meet. Ecological Society of America, New Orleans (with C. Saeinz & M. Markham)
- 2018– “Osmoregulation in freshwaters: Gene expression in the gills of a Neotropical cichlid in contrasting pH and ionic environments”. Ann. Meet. American Society of Ichthyologists and Herpetologists, Rochester, NY (with S. Willis, D. Saenz, G. Wang, C. Hollenbeck, L. Rocha D. Portnoy & J. Cai)
- 2018– “Potential influence of exchanges between the Lower Guadalupe River and oxbow lakes on food web dynamics” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with M. Andrade, C. Arantes, T. Bokhutlo, L. Bower, E. Cunha, F. Keppeler, E. Lopez, K. Mayes, Y. Quintana, C. Robertson & D. Saenz)
- 2018– “Disentangling the role of environmental and spatial processes in the metacommunity structure of stream fishes in a large Neotropical River” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with E. Lopez-Delgado & F. Villa-Navarro)
- 2018– “Is trophic level related to body size in Texas fishes?” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with F. Keppeler & C. Montaña-Schalk)
- 2018– “Flow-specific floodplain inundation modeling, availability of suitable spawning habitat and recruitment of Alligator Gar in the lower Trinity River” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with D. Hoeninghaus, J. Jensen, A. Pease, D. Buckmeier, N. Smith, D. Daugherty, T. Hardy & Y. Allen)
- 2018– “Variation in environmental conditions and fish assemblages in sub-lakes of the Poyang Lake floodplain, China” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with B. Jin, J. Si, & B. Shao)

- 2018– “Functional diversity of stream fish assemblages in the Eastern Amazon: Oil palm plantations acting as an environmental filter” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with T. Begot, N. Benone, and L. Montag)
- 2018– “Evaluating the effects of different land uses on habitat and fish assemblages in amazon rainforest streams” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with L. Montag, H. Leão, N. Benone, B. Prudente, T. Begot, N. Torres, D. Hoeinghaus, L. Bower, F. Keppeler, D. Saenz, E. Lopez-Delgado, Y. Quintana & L. Juen)
- 2017– “Wabash River food web before and after an ecosystem transition” Ann. Meet. Soc. Freshwater Sci., Raleigh, NC (with M. Pyron, R. Shields, M. Minder, B. Murry & J. Becker)
- 2017– “Using fish functional traits for individual-based modeling to simulate food-web dynamics in river-floodplain systems” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with P. Piana, E. Cunha, A. Agostinho & L. Gomes)
- 2017– “Relationship between Forest Cover and Fish Diversity in the Amazon River” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with C. Arantes)
- 2017– “Fish assemblage convergence along environmental gradients and microhabitats in small freshwater streams” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with L. Bower)
- 2017– “Is There a Relationship between Fish Cannibalism and Latitude or Species Richness?” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with L. Strictar Perreira, F. Keppeler & A. Agostinho)
- 2017– “Effects of Melanocortin Hormones on the Electric Organ Discharge of Two Weakly Electric Fish” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with D. Saenz, M. Markham & J. Alves Gomes)
- 2017– “RNA-seq analysis of osmoregulation in an Amazonian cichlid: Deciphering the mechanisms constraining distributions of white and black water fishes” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with S. Willis, D. Saenz, G. Wang, C. Hollenbeck, J. Cai & D. Portnoy)
- 2017– “Fish biomass and functional diversity are positively associated with forest cover in the Amazon River floodplains”, International Symposium on Flood-pulse Ecosystems, Siem Reap, Cambodia (with C. Arantes, et al.)
- 2017– “Hydroelectric dams in the tropics: impending threats to biodiversity and fisheries”, Texas Chapter American Fisheries Soc., Corpus Christi.
- 2016– Seasonal changes in the functional community assembly of tropical fishes, Annual Meeting of the Ecological Society of America, Portland, Oregon (with D. Fitzgerald, M. Sabaj and L. Sousa).
- 2016– Global Patterns of Fish Functional Diversity and Trait Convergence along Species Richness and Environmental Gradients, Annual Meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, Louisiana (with L. Bower).
- 2014– Weighing interaction strength in stream food webs: Importance of incorporating density data, Annual Meeting of the Ecological Society of America, Davis, California (with M.

Ceneviva-Bastos and L. Casatti).

- 2014– Fishes and food webs in the Mekong River and its tributaries: a preview of life after new dams are constructed, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Ou).
- 2014– Influence of deforestation on fisheries in the Amazon floodplains, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Arantes, M. Petrere, L. Castello, and C. Freitas).
- 2014– Food web structure of the Lower Xingu River: A unique and immediately imperiled ecosystem in the Lower Amazon Basin, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with D. Fitzgerald, M. Zuluaga, T. Giarrizzo, M. Sabaj, N. Lujan, L. Sousa, L. Rapp, J. Zuanon and J. Lundberg).
- 2014– Trophic ecology of omnivorous fishes in the Yeşilirmak River Basin, Turkey, in relation to seasons and a hydroelectric dam, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with N. Kaymak, S. Akin, Z. Altuner, F. Polat and T. Dal).
- 2014– Intra-annual flow variation and its impact on larval fish abundance in two Texas Gulf Coast rivers, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with A. Rodger and C. Krabbenhoft).
- 2014– Trophic plasticity of tropical tadpoles along environmental gradients. Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Schalk, C. Montaña, and L. Fitzgerald).
- 2013– Environmental Flows Under Texas Senate Bill 3: Did We Leave Enough Water for the Fishes? Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas.
- 2013– The Impact of Droughts on Fish Assemblage and Water Quality in the lower Neches River: Implications for Environmental Flow Recommendations, Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas (with R. Pizano)
- 2013– Effects of a Dam on the Structure of the Icefish Species Assemblage in Nanyi Lake, Eastern China, Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas (with Z. Wang)
- 2012– Trophic diversity in the evolution and community assembly of loricariid catfishes. Ann. Meet. Society for the Study of Evolution, Ottawa, Canada (with N. Lujan and J. Armbruster)
- 2012– Diet-morphology correlations in the radiation of South American geophagine cichlids (Perciformes: Cichlidae: Cichlinae). Ann. Meet. Society for the Study of Evolution, Ottawa, Canada (with H. López-Fernández, C. Montaña, and R. Honeycutt)
- 2012– Hydrogen sulfide, bacteria, and fish: a unique food chain supported by chemoautotrophs. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with K. Roach)
- 2012– Morphological assembly patterns in tropical and temperate percomorph fishes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with C.G. Montaña)

- 2012– Are successful fish invasions only from species-rich into species-poor communities? Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with D. Fitzgerald, M. Tobler)
- 2012– Drought conditions threaten the lower Neches River and Big Thicket National Preserve. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with R. Pizano, N. Lujan)
- 2011– Anthropogenic impacts and longitudinal, elevational effects on the periphyton, macroinvertebrate, and fish communities of an Amazonian headwater. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with D. Jacobsen, N. Lujan, V. Meza V., K. Roach, V. Rimarachin C., and J. Arana M.)
- 2011– Habitat-associated morphology of cichlid and centrarchid species assemblages: Tropical temperate convergence in perciform fishes? Ann. Meet. Ecological Soc. of Amer., Austin, TX (with C. Montaña)
- 2011– Functional trait diversity and trait-environment relationships in Central Texas stream-fish assemblages: Implications for biomonitoring. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.A. Pease, J.M. Taylor, and R.S. King)
- 2011– Using stomach contents, stable isotopes and morphometrics to quantify resource partitioning among fruit-eating fishes in Amazon floodplain habitats. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with S.B. Correa)
- 2011– Food web structure in floodplain habitats of the Oueme River, Benin, West Africa. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.T. Jackson and A Adite)
- 2011– Do wastewater treatment plants cause abnormal effects in mosquitofish in the Houston bayous? Ann. Meet. Ecological Soc. of Amer., Austin, TX (with C.D. Watkins and M. Mora)
- 2011– Flooding drives one-way connectivity of aquatic food webs across spatial and temporal scales in a subtropical coastal lagoon. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.M. Garcia, D.J. Hoeninghaus, M. Claudino, R. Bastos, F. Correa, S. Huckembeck, J. Vieira, D. Loebmann, P. Abreu, and C. Ducatti)
- 2011– Never enough data, never enough time: theoretical and practical sticking points in determining environmental flows. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos
- 2011– The influence of hydrology, light penetrance, and nutrients on production sources for fishes in six floodplain rivers. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with K.A. Roach)
- 2011– Using stable isotopes to reveal food web structures in the Mekong River and its tributaries. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with C. Ou)
- 2011– Stable isotope analysis reveals food web structure and watershed impacts along the fluvial gradient of a Mesoamerican coastal river. Ann. Meet. Texas Chapter Amer.

- Fisheries Soc., San Marcos (with D.J. Hoeinghaus, A.A. Pease, P.C. Esselman, R.L. Honeycutt, D. Gbanaador, E. Carrera, and J. Payne)
- 2011– Texas mussels in national museums: a survey of biodiversity collections for records of Texas freshwater mussels. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with N. Lujan, J. Groce, and T. Snelgrove)
- 2011– Ecomorphological correlates in temperate floodplain centrarchid fishes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with C.G. Montaña)
- 2011– Inferring trophic resource partitioning among Amazonian floodplain serrasalmid fishes from $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ stable isotopes, stomach contents and ecomorphological data. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with S.B. Correa)
- 2011– Trophic resource partitioning among frugivorous fishes in floodplain forests of the Colombian Amazon. XI Colombian Meeting of Ichthyology. Universidad del Tolima and Asociación Colombiana de Ictiólogos. Ibagué, Tolima, Colombia (with S.B. Correa)
- 2010– Do wastewater treatment plants cause abnormal effects in mosquitofish? Annual Meeting of the Society for Ecotoxicology, Portland Oregon (with C. Watkins, M. Mora)
- 2010– An ecological study of mercury bioaccumulation in the Madre de Dios watershed, Peru. Ann. Meet. North American Benthological Society, Santa Fe, New Mexico (with K. Roach, N. Jacobsen, D. Brightsmith, C. Fiorello)
- 2010– Seasonality and dietary patterns in Neotropical piscivores. Ann. Meet. Amer. Soc. Ichthyologists and Herpetologists, Providence, Rhode Island (with C. Montaña, C. Layman)
- 2008– Comparative ecology of two *Crenicichla* species (Teleostei: Cichlidae) in a Venezuelan Neotropical floodplain river. Ann. Meet. Amer. Soc. Ichthyologists and Herpetologists, Montreal, Canada (with C. Montaña)
- 2007– Evaluation of conceptual models of fish reproduction in floodplain rivers: A life history-based approach. Ann. Meet. Ecological Soc. Am., San Jose, California (with S. Zeug)
- 2007– The Rio Casiquiare removed the physical barrier between the Orinoco and Amazon Basins and replaced it with an environmental filter. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, T. Taphorn, L. Nico, A. Barbarino)
- 2007– Experimental test for determining the feeding efficiency of digging/sifting Neotropical cichlids. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with C. Watkins, H. Lopez, S. Willis)
- 2007– Divergence times of Neotropical cichlids and some implications for South American freshwater fish biogeography. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, R. Honeycutt)
- 2007– A multilocus phylogeny of the Neotropical Cichlidae. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, R. Honeycutt, C. Crane)

- 2007– Niche overlap and ecomorphological disparity in Mesoamerican cichlid communities. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with A. Pease, J. Cochran, H. Lopez)
- 2007– Oxbow lakes hydrologic and biotic connectivity with the lower Brazos River. Ann. Meet. Texas Academy of Science (with R. Mathews, J. Furnans, S. Zeug, T. Bonner, C. Williams, T. Osting)
- 2006– Comparison of dietary and isotope-based food web structure of four Central American coastal streams. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with S. Zeug, C. Robertson, C. Saenz, B. Winemiller)
- 2006– Habitat attributes influence ontogenetic diet shifts of gizzard shad (*Dorosoma cepedianum*) in a large floodplain river. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with S. Zeug, D. Peretti)
- 2006– Structure of diverse tropical river food webs: Landscape determinants, introduced species and ecological efficiency of exploited systems. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with D. Hoeninghaus, A. Agostinho)
- 2006– Resource use among sympatric gar species (Lepisosteidae) in the middle Brazos River and associated oxbows. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with C. Robertson, S. Zeug)
- 2006– Snake species richness in relation to habitat in the post oak savannah of east central Texas. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with J. Putegnat, L. Fitzgerald)
- 2006– Variation in food web structure along the longitudinal gradient of the Bladen-Monkey River, Belize. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with A. Pease, E. Carrera, D. Gbaanador, J. Payne, J. Putegnat, G. Tamez, R. Honeycutt, P. Esselman, W. Heyman)
- 2006– Phenotype-environment correlations in the putative adaptive radiation of South American geophagine cichlids (Perciformes, Labroidei). Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with H. Lopez, R. Honeycutt, A. Pease)
- 2006– Response of Brazos River fish assemblages to hydrological connectivity. Ann. Meet. S. Div. Amer. Fisheries Soc., San Antonio, TX (with S. Zeug, R. Mathews, T. Osting)
- 2005– Seasonal fish effects on benthic ecology of a neotropical floodplain river. Ann. Meet. Am. Soc. Ichthyol. Herpetol., Tampa, FL (with J. Cotner, D. Roelke, J.V. Montoya)
- 2004– Seasonal variability in benthic and water column productivity in a Venezuelan llanos river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with J. Cotner, D. Roelke, J.V. Montoya)
- 2004– Experimental demonstrations of seasonal fish effects on benthic ecology of a neotropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D. Roelke, J.V. Montoya, C. Layman, J. Cotner)

- 2004– Seasonal variation of productivity and respiration in a tropical blackwater river: The role of allochthonous organic matter derived from savannah and gallery forest, and inorganic nutrients. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D. Roelke, C. DelCastillo, J.V. Montoya, S. Davis, J. Cotner)
- 2004– Hydrological seasonality and spatio-temporal dynamics of physico-chemical variables of a tropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with J.V. Montoya, D. Roelke, J. Cotner)
- 2004– From short to long: factors influencing food chain length in a species-rich tropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D.A. Arrington, C. Layman)
- 2004– Body size and seasonal hydrology drive predator-prey dynamics in a complex river food web. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with C. Layman, D.A. Arrington, D. Jepsen, C. Montaña)
- 2004– Predicting the Ecological Response to Increased Base Flows in Ephemeral Texas Streams: Results from Field Investigations. Water Resource Conference, Portland, OR (with N. Wilkins, R. Lacewell, R. Griffiths)
- 2004– Association between brush cover and stream fish assemblages in the Pedernales River Basin, Texas: Preliminary findings. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK (with J. Birnbaum)
- 2004– Seasonal ecological dynamics of oxbow lakes of a temperate floodplain river. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK (with S. Zeug, S. Tarim)
- 2004– Comparative ecology of gars species (Lepisosteidae) in the Brazos River and associated oxbow lakes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with C. Robertson, S. Zueg)
- 2004– Status of *Dionda diaboli* and report of established populations of exotic fish species in lower San Felipe Creek, Val Verde County, Texas. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with H. Lopez)
- 2004– Association between brush cover and stream fish assemblages in the Pedernales River Basin, Texas: Preliminary findings. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with J. Birnbaum and D. Hoeinghaus)
- 2004– Seasonal ecological dynamics of oxbow lakes of a temperate floodplain river. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with S. Zeug, S. Tarim)
- 2003– Response of streams to variation in vegetation in the Pedernales watershed. Ann. Meet. Amer. Geophysical Union, San Francisco, CA (with L. Shen, B. Wilcox, C. Munster, N. Wilkins)
- 2003– Fish assemblages of the Casiquaire, zone of biotic interchange between Upper Orinoco and Rio Negro. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with H. Lopez, D. Arrington, D. Taphorn, L. Nico, A. Barbarino)

- 2003– Local vs. regional factors: a meta-analysis of Texas stream fish assemblages. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with J. Birnbaum, D. Hoeinghaus)
- 2003– Spatiotemporal variation in fish assemblage structure in tropical floodplain creeks. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with D. Hoeinghaus, C. Layman, D. Arrington)
- 2003– Habitat complexity and fish morphological diversity in a Neotropical floodplain river. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with S. Willis, H. Lopez)
- 2003– Phenotypic characters predict fish assemblage differences among netted and un-netted lagoons of a speciose tropical river. Ann. Meet. Ecol. Soc. Amer., Savanha, Georgia (with C.A. Layman)
- 2003– Local vs. regional factors: a meta-analysis of Texas stream fish assemblages. Ann. Meet. Soc. Southwest. Nat., Norman, Oklahoma (with J. Birnbaum, D. Hoeinghaus)
- 2003– Reconciliation of neutral and deterministic models of community assembly in the Cinaruco River, Venezuela. Ann. Meet. N. Amer. Benthological Soc. (with D.A. Arrington, C. A. Layman)
- 2003– Using small-scale exclusion experiments to predict impacts of fishing in a tropical floodplain river fish community. 2nd Large Rivers Symposium, Phnom Penh, Cambodia (with C. Layman)
- 2003– Organization and maintenance of biological diversity in tropical floodplain rivers. 2nd Large Rivers Symposium, Phnom Penh, Cambodia (with D.A. Arrington)
- 2002– Diel variation in fish assemblage structure on river sandbanks of a Neotropical blackwater river. Ann. Meet. Amer. Soc. Ichthyol. Herpetol. (with D.A. Arrington)
- 2002– Predation effects on littoral fish assemblage of a Neotropical blackwater river. Ann. Meet. Ecological Soc. Amer. (with C. Layman)
- 2001– Foodweb structure of tropical rivers with different biogeochemical attributes. Ann Meet. Ecological Soc. Amer. (with D. Jepsen)
- 2001– Assembly of fishes and macroinvertebrates in a large neotropical floodplain river: The role of structural habitat complexity. Ann Meet. Ecological Soc. Amer. (with D.A. Arrington)
- 2001– Taxonomy and new records of pike characins (*Acestrorhynchus* spp.) from Venezuela. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with H. Lopez)
- 2001– Temporal variation of food web structure in a coastal wetland fringing Matagorda Bay, Texas. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Akin)

- 2000– Food web structure of South American rivers with different biogeochemistry revealed by stable isotopes. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with D. Jepsen)
- 2000– Habitat structure and tropical fish assemblages: a test of the random associations hypothesis. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with D.A. Arrington)
- 2000– Spatial and temporal variation in the food web of Mad Island Marsh, Matagorda Bay. Ann. Meet. Soc. S.W. Naturalists (with S. Akin)
- 1999– Spatial variation in fish assemblages of Brazos River oxbow lakes. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with J. Cotner & S. Tarim)
- 1999– A review of Venezuelan species of *Hypophthalmus*. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with H. Lopez)
- 1999– The effects of environmental parameters on the distribution and abundance of gulf menhaden, *Brevoortia patronus*, in Mad Island Marsh, Matagorda Bay, Texas. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Akin)
- 1998– Reproductive ecology of the tarpon snook (*Centropomus pectinatus*) in a tropical estuary with evidence of protandry. Symposium on Tropical Fish Biology, Fisheries Soc. British Isles (with B. Ponwith & W. Neill)
- 1998– Stable isotopes for comparison of sources of production in four tropical rivers. Western Division American Fisheries Society (coauthored with D. Jepsen)
- 1998– Influence of exotic smallmouth bass on fish assemblages of the Devils River, Texas. Ann. Meet. Southeastern Society of Biologists (co-authored with M. Robertson)
- 1997– Conservation of aquatic diversity of river floodplains: An intermediate disturbance perspective. Symposium on Conservation of Large River Floodplains, Ann. Meet. Soc. Cons. Biol. (with D.B. Jepsen)
- 1996– Effects of sportfish management on desert fishes in Texas, Ann. Meet. AFS Western Div., Eugene, OR.
- 1996– Spatial and temporal variation in fish assemblage structure at Village Creek. Big Thicket Science Conference, Beaumont, TX (co-authored with L. Moriarty)
- 1996– Fish population and community structure in Brazos River oxbow lakes. Joint Ann. Meet. Texas and Oklahoma Chapters Amer. Fish. Soc. (with S. Tarim, J.B. Cotner, D.E. Shormann)
- 1996– Fish Population and Community Structure of Oxbow Lakes of the Brazos River. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Tarim)
- 1996– Fish populations and community structure in oxbow lakes of the Brazos River floodplain. Ann. Meet. Southwestern Soc. of Naturalists (with S. Tarim)

- 1995– The influence of fish life histories and natural disturbance on food web structure in oxbows of the Brazos River. Ann. Meet. Amer. Fish. Soc. (with J.B. Cotner, D.E. Shormann)
- 1995– Fish effects on phytoplankton and zooplankton communities in Brazos River oxbows. Ann. Meet. Amer. Fish. Soc. (with J.B. Cotner, D.E. Shormann)
- 1995– Texas fish assemblages following three decades of environmental change. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A.A. Anderson, C. Hubbs, R.J. Edwards)
- 1995– The Phantom Lake Springs refuge for endangered desert fishes. Ann. Meet. Texas Chapter Amer. Fish. Soc. (with A.A. Anderson)
- 1995– Identifying food web interactions in Brazos River oxbow lakes. Ann. Meet. Amer. Soc. Limnol. & Oceanogr. (with D.E. Shormann, J.B. Cotner)
- 1995– Life history theory and responses of fish populations to perturbations. Ann. Meet. Soc. for Conservation Biology
- 1995– Phantom Lake Spring refuge for two endangered fishes. Ann. Meet. Soc. for Conservation Biology (with A.A. Anderson)
- 1995– Fish Communities of Lake Nokue, Benin, West Africa. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A. Adite)
- 1994– Life history, carrying capacity and fisheries management. Ann. Meet. Texas Chapt. Amer. Fish. Soc.
- 1994– Ecology of catfishes of the Upper Zambezi River floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.C. Kelso Winemiller)
- 1994– Texas fish assemblages following three decades of environmental change. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A.A. Anderson, C. Hubbs, R.J. Edwards)
- 1994– Fish assemblage-habitat relationships in a Texas blackwater stream. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.J. Moriarty)
- 1993– Comparative ecology of pavon in Southern Venezuela: Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A. Barbarino, D.C. Taphorn)
- 1993– Convergence in a specialized foraging mode: tube-snouted weakly electric fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with C. Marrero)
- 1993– Comparative ecology of African pike and tigerfish in the Upper Zambezi River floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L. Kelso Winemiller)
- 1993– Agonistic behaviors exhibited by juvenile smallmouth bass in laboratory and field conditions. Ann. Conf. SE Fish & Wildl. Assoc. (with M.J. Sabo, E.J. Pert)
- 1992– Ecological and morphological diversification in riverine cichlid fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.C. Kelso Winemiller,

A. Brenkert)

- 1991– Life history theory as a comparative framework for the individual–based approach to fish population dynamics. Ann. Meet. Am. Fisheries Society
- 1991– Life history strategies among North American freshwater and marine fishes: theoretical implications of a multivariate analysis. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1990– A new species of piscivorous cichlid fish (genus *Serranochromis*) from the Upper Zambezi floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1988– Seasonal and inter-site variation in food web properties among neotropical fish assemblages. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1987– A reappraisal of life history strategies: patterns among South American fishes. 63rd Ann. Meet. SW & Rocky Mt. Div. Am. Assoc. for the Advancement of Science
- 1987– A reappraisal of life history strategies: Patterns among South American fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1982– Foraging behavior and competition between largemouth and smallmouth bass (*Micropterus*). Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1981– Comparative ethology of largemouth and smallmouth black bass (*Micropterus*). Ann. Meet. Animal Behavior Soc.
- 1980– Effects of interspecific competition on predatory behavior of largemouth (*M. salmoides*) and smallmouth black bass (*M. dolomieu*). Ann. Meet. Animal Behavior Soc.
- 1980– Smallmouth bass nesting in Indian Creek, Ohio. 42nd Midwest Fish & Wildl. Conf. (with D.H. Taylor)

Postdoctoral Research Associates Advised

- Hernan López-Fernández, Texas A&M University (2006-2007) Associate Professor, University of Michigan.
- Michael Tobler, University of Zürich (2008-2010) Endowed Associate Professor at University of Missouri at St. Louis.
- John Baker, University of Florida (2008-2015) Director, Geoengineering Global.
- David Hoeinghaus, Texas A&M University (2009) Professor, University of North Texas.
- Nathan Lujan, Auburn University (2009-2012) Curator of Fishes, Royal Ontario Museum, Toronto, Canada.
- Eduardo R. Cunha, Universidade Estadual de Maringá (2018-2022), Environmental Consultant, Maringá, Brazil.
- Davi Butturi Alvim, Universidade Federal de São João del-Rei (2024), Adjunct Professor, UFSJR, Brazil.

Graduate Students Advised as Major Professor – PhD

- David B. Jepsen, Ph.D. 1999, Fisheries Scientist, Oregon Department of Natural Resources, Eugene, OR.
- Soner Tarim, Ph.D. 2002, CEO of Harmony Science Academy, a network of charter schools in Texas.
- Senol Akin, Ph.D. 2001, Professor and Chair, Department of Fisheries and Aquaculture, Gaziosmanpasa University, Turkey.
- Gregory W. Stunz (co-advised with T. Minello, NMFS Galveston), Ph.D. 1999, Endowed Professor of Marine Biology at the Harte Institute, Texas A&M University at Corpus Christi.
- Bonnie J. Ponwith (co-advised with W. Neill), Ph.D. 1999, Regional Director, Office for Science and Technology, NOAA/NMFS, Washington, DC.
- D. Albrey Arrington, Ph.D. 2002, Director of the Loxahatchee River Water Conservation District, Jupiter, FL.
- Hernán López Fernández, Ph.D. 2004, Associate Professor and Curator of Ichthyology, University of Michigan, Ann Arbor, MI.
- Craig A. Layman, Ph.D. 2004, Associate Professor, North Carolina State University, Raleigh, NC.
- David Hoeinghaus, Ph.D. 2005, Associate Professor, University of North Texas, Denton.
- Alphonse Adite, Ph.D. 2006, Professor and Department Chair, Université Abomey-Calavi, Université Abomey-Calavi, Benin.
- Steven Zeug, Ph.D. 2007, Biologist with Cramer Fish Sciences, Auburn, CA.
- Jose Vicente Montoya (co-advised with D. Roelke), Ph.D. 2008, Associate Research Professor, Instituto Venezolano de Ciencias, Caracas, Venezuela.
- Allison Pease, Ph.D. 2010, Associate Professor, Texas Tech University, Lubbock, TX; then Assistant Professor, University of Missouri, Columbia
- Sandra Bibiana Correa, Ph.D. 2012, Assistant Professor at Mississippi State University, Starkville, MS.
- Carmen Montaña, Ph.D. 2012, Assistant Professor, Stephen F Austin State University, Nacogdoches, TX.
- Katherine Roach, Ph.D. 2012, Postdoc Research Associate, University of Wisconsin, Madison, WI.
- Chouly Ou, Ph.D. 2013, Instructor, Virginia Tech University, Blacksburg, VA.
- Daniel Fitzgerald, Ph.D. 2016, Research Ecologist, USGS Leetown Science Center, Kearneysville, WV.
- Caroline Arantes, Ph.D. 2017, Assistant Professor, West Virginia University, Morgantown, WV.
- Luke Bower, Ph.D. 2013-2018. Assistant Professor and Assistant Fisheries USGS Coop Leader, Clemson University, Clemson, SC.

Edwin Lopez, Ph.D. 2013-2018. Instructor, Universidad del Tolima, Tolima, Colombia.
 David Saenz, Ph.D. 2013-2020. Postdoc, Texas A&M University, College Station.
 Friedrich Keppeler, Ph.D. 2015-2020. Postdoc, University of Wisconsin, Madison, WI, and
 Universidade Federal do Pará, Brazil.
 Thethela Bokhutlo, Ph.D. 2015-2020. Instructor, Botswana International University of
 Science and Technology.
 Yasmin Quintana, Ph.D. 2017-2023. Conservation Research Scientist, Shedd Aquarium,
 Chigaco, IL
 Benton Fry, Ph.D. 2021-current.

Graduate Students Advised as Major Professor – MSc

Nora E. Valdes, M.Sc. 1995, Superintendent of Environmental Protection – PEMEX, Mexico.
 Loren J. Moriarty, M.Sc. 1995, Lecturer at Salisbury University, Maryland.
 Alphonse Adite, M.Sc. 1995, Professor and Department Chair, Université Abomey-Calavi,
 Benin.
 David B. Jepsen, M.Sc. 1995, Fisheries Scientist, Oregon Department of Natural Resources,
 Eugene, OR.
 Tamara L. McGuire, M.Sc. 1995, Marine biologist, Alaska.
 John D. Williams, M.Sc. 1995, Commercial fisherman, Alaska.
 Christopher C. Peterson, M.Sc. 1997, Physician (M.D.), San Angelo, TX.
 Michael S. Robertson, M.Sc. 1999, Biologist, Wyoming Department of Natural Resources,
 Laramie, WY.
 Archis Grubh, M.Sc. 2002, Biologist, River Studies Unit, Texas Parks and Wildlife
 Department, San Marcos, TX.
 Jenny Peet (Birnbaum), M.Sc. 2005, Scientist, Massachusetts Department of Environmental
 Protection.
 Clint Robertson, M.Sc. 2007, Biologist, River Studies Unit, Texas Parks and Wildlife
 Department, San Marcos, TX.
 Jennifer Cochran Biederman, M.Sc. 2008, Assistant Professor, Saint Mary's University,
 Winona, MN.
 Crystal Watkins, M.Sc. 2011, Scientist, Texas Commission on Environmental Quality, Dallas, TX.
 Elizabeth Carrera, M.Sc. 2012, Landscape architect, Seattle, WA.
 Andrew Jackson, M.Sc. 2012, Contractor, LaCrosse, WI.
 Rebecca Pizano, M.Sc. 2013, Environmental consultant, Houston, TX.
 Anthony Rodger, M.Sc. 2015, Biologist, Oklahoma Department of Natural Resources,
 Oklahoma City, OK.
 Kaitlyn Romoser, M.Sc. 2021-2023.

Host, Advisor & Collaborator of Visiting International Scientists at Texas A&M

Aniello Barbarino, Instituto Nacional de Investigaciones Pecuarias, Venezuela (1993, 2003)
Eloisa Revaldaves, Universidade Estadual de Maringá (1999-2000)
Alexandre Garcia, Universidade Federal de Rio Grande do Sul (2000, 2001)
Miriam Pilz Albrecht, Universidade Federal de Rio de Janeiro (2004, 2006)
Carmen Montaña, Universidad de los Llanos Occidentales (2005)
Miriam Soria Barreto, Colegio de la Frontera Sur (2006)
Danielle Peretti, Universidade do Estado do Rio Grande do Norte (2005-2006)
Erico Takahashi, Universidade Estadual Paulista (2009-2010)
Fabio Cop Ferreira, Universidade Estadual Paulista- Rio Claro (2010-2011)
João Paulo Alves Pagotto, Universidade Estadual de Maringá (2012-2013)
Mônica Ceneviva Bastos, Universidade Estadual de São Paulo (2013)
Nehir Kaymak, Gaziosmanpasa University (2013-2104)
Fernanda Possatto, Universidade Federal do Paraná (2014-2015)
Cristhiana Röpke, Instituto Nacional de Pesquisas do Amazonia (2014-2015)
Jaqueline de Bem, Universidade Federal de Santa Catarina (2014-2015)
Friedrich Keppeler, Universidade Federal de Rio Grande do Sul (2014)
Rodrigo Ferreira Bastos, Universidade Federal de Rio Grande do Sul (2015-2016)
Larissa Strictar, Universidade Estadual de Maringá (2015-2016)
Eduardo Cunha, Universidade Estadual de Maringá (2016)
Marcelo Andrade, Universidade Federal do Pará (2016)
Tiago Begot, Universidade Federal do Pará (2017)
Laisa Cavalheiro, Universidade Federal do Rio Grande do Sul (2017-2018)
Sonia Huckembeck, Universidade Federal do Rio Grande do Sul (2017-2018)
Dr. Francisco Garcia de Leon, Universidad de Tamaulipas, Mexico (2000)
Dr. Erica Pellegrini Caramaschi, Universidade Federal de Rio de Janeiro, Brazil (2001-2002)
Dr. Alphonse Adite, Université Abomey-Calavi, Benin (2004, 2009)
Dr. Alexandre Garcia, Universidade Federal de Rio Grande do Sul, Brazil (2004, 2005, 2007)
Dr. Rocio Rodiles, El Colegio de la Frontera Sur, Mexico (2004, 2016-2017)
Alfonso Gonzales, Colegio de la Frontera Sur (2006)
Dr. Donald C. Taphorn, Universidad de Los Llanos Occidentales, Venezuela (2007)
Dr. Sunil Chaudhary, T M Bhagalpur University, India (2008)
Dr. Ursulla Pereira Souza, Universidade Estadual Paulista- Rio Claro, Brazil (2010)
Dr. Zhongsuo Wang, Capital Normal University, Beijing, China (2012-2013)

Dr. Luis Espinola, Instituto Nacional de Limnología, Santa Fe, Argentina (2014)
 Dr. Pitagoras Piana, Universidade Estadual do Oeste do Paraná, Brazil (2016)
 Dr. Miriam Soria Barreto, El Colegio de la Frontera Sur, Mexico (2016)
 Dr. Binsong Jin, Nanchang University, China (2017-2018)
 Dr. Luciano Montag, Universidade Federal do Pará, Brazil (2017-2018)
 Marlucci Mueller Rebalato, Universidade Federal do Rio Grande do Sul (2018-2019)
 Dr. Larissa Strictar, Unversidade Estadual de Maringá (2018-2019)
 Tofunmi E. Oladimeji, Obafemi Awolowo University, Nigeria (2019)
 Daniele Souto, Universidade Federal de Alagoas, Brazil (2022)
 Dr. Pablo Scarabotti, Instituto Nacional de Limnología, Argentina (2022-2023)

Summary Table of Advisees & International Visiting Scholars

	Texas A&M	Other Institutions
Postdoc, advisor	7	1
PhD, major advisor, coadvisor	26	1
PhD, committee member, examiner	53	23
Visiting international scientists and PhD, host/advisor	-	44
MSc, major advisor	17	-
MSc, committee member	46	-
Undergraduate, advisor	54	5

Courses Taught

Texas A&M University:

REN205, Fundamentals of Ecology-undergraduate, 3 cr
 WFSC400, Fisheries Survey- upper level undergraduate, 3 cr
 WFSC484/5, Internship/Directed Independent Studies- undergraduate, variable cr
 BIOL/WFSC/ECCB462, Amazon River Tropical Biology- undergraduate course, 3 cr,
 includes class sessions plus a 10-day fieldtrip to the Amazon
 WFSC605, Community Ecology, graduate, 3 cr
 WFSC/ENTO624, Dynamics of Populations- graduate, 4 cr
 WFSC681, Seminar in Ecology- graduate, 1 cr
 WFSC689, Conservation Biology- graduate- team taught, 3 cr
 WFSC685, Directed Independent Studies- graduate, variable cr
 EEBL602, Population Ecology- graduate, 1 cr
 EEBL603, Population, Community, Ecosystem Ecology- graduate- team taught, 1 cr

ECCB/EEBL600 Population, Community, Ecosystem Ecology- graduate, 3 cr

Inland Fisheries Research and Development Institute, Phnom Penh, Cambodia:
Fisheries Techniques (graduate & professional, 14 registrants) 2017

Universidad Central de Costa Rica, San Jose, Costa Rica:
Community Ecology (graduate & professional, 25 registrants) 2015

Congreso Colombiano de Ictiología, Leticia, Colombia:
Food Web Ecology (graduate & professional, 20 registrants) 2015

Universidade Estadual de Maringá, Brazil:
Food Web Ecology (graduate, 30 registrants) 2014
Metacommunities and Assembly Rules (graduate, 29 registrants) 2015

Brazilian Ichthyological Congress, Invited Graduate Short Course: Fish Population and
Community Dynamics (65 paid registrants) 1999

University of the Western Llanos, Venezuela, Graduate Program in Renewable Natural
Resources, Visiting Fulbright Lecturer:
Advanced Ecology (graduate course)- Su1997
Population Dynamics (graduate course)- Su1997

University of Oklahoma, Visiting Faculty:
ZOO4970/5970, Food Webs and Aquatic Systems-graduate-1994

University of Texas, Lecturer:
BIO304, Population and Environmental Biology-majors- (3 semesters)
ZOO369, Basic Ecology-upper division majors- 1990
BIO301L, Biology: Microbes to Man- nonmajors- 1990

Service as Reviewer

Funding proposals: National Science Foundation, National Geographic Society, Rufford Grant
Foundation, Critical Ecosystem Partnership Fund Indo-China, World Wildlife Fund Fuller
Fellowships, Swiss National Science Foundation, Dutch Research Council, US
Environmental Protection Agency, NOAA/National Marine Fisheries Service, TAMU-
Mexico CONICIT Program, Georgia Sea Grant, New York Sea Grant, Austrian Science
Fund, Texas Natural Resource Conservation Commission, American Association for the
Advancement of Science, Houston Advanced Research Center, Michigan Sea Grant,
Templeton Foundation, Texas Comptroller, Marsden Fund

Journal Publications: *Science, Nature, Proceedings of the National Academy of Science USA,*
Scientific Reports, The American Naturalist, Ecology, Ecological Monographs, Ecosphere,
Transactions of the American Fisheries Society, North American Journal of Fisheries
Management, Limnology and Oceanography, Ecology Letters, Conservation Letters, Nature
Sustainability, Copeia, Environmental Biology of Fishes, Canadian Journal of Fisheries and
Aquatic Sciences, Biochemical Systematics and Ecology, Journal of Fish Biology, Oecologia,
Acta Oecologia, Oikos, Trends in Ecology and Evolution, Journal of the North American

Benthological Society, Journal of Animal Ecology, Journal of Tropical Ecology, Ecology of Freshwater Fish, Fish and Fisheries, Marine & Freshwater Research, Conservation Biology, Texas Journal of Science, Estuaries, Archives fur Hydrobiologie, Acta Scientiarum, Biological Invasions, Biotropica, Brenesia, Biollania, Estuaries, Marine Ecology Progress Series, Hydrobiologia, Journal of Freshwater Ecology, Reviews in Fish Biology, River Research and Applications, Southwestern Naturalist, Fishery Bulletin, Aquatic Living Resources, Cybium, Scientia Guaianae, Ichthyological Explorations of Freshwaters, Bulletin de la Peche et de la Pisciculture, Journal of Aquatic Ecosystem Health, Environmental Management, Southeastern Fishes Council Proceedings, Georgia Water Resource Conference Proceedings, Revista de Vida Silvestre Tropical, Revista Boliviana de Ecología y Conservación Tropical, Zootaxa, Aquatic Invasions

Book Publishers: Academic Press, Chapman & Hall Publishers, Blackwell Scientific Publishers, Elsevier Publishers, MacMillan Press, W.H. Freeman Publishers, Princeton University Press, American Fisheries Society- *Reservoir Symposium Volume, Stream Fish Ecology Volume*, University of Chicago Press.

TV/Film: Zebra Film Productions, National Geographic Television, Discovery Channel, British Broadcasting Corporation

Institutional Service

Faculty advisor for 4 student organizations

Service on 13 university-level committees

Service on 10 college/agency-level committees

Service on 21 departmental committees

Service on 4 interdisciplinary program committees

Faculty senate, 2006-2009

Authored MOUs with 4 foreign institutions

External Research Grants, Contracts & Awards

	<i>period</i>	<i>amount(USD)</i>
National Science Foundation- Collaborative Research: Track 1, IRES, International research experience for students in freshwater ecosystems at the epicenter of neotropical biodiversity, Guiana Shield	2022-2025	120,880
Texas Water Development Board- Environmental flow regime assessment and development of a monitoring framework (<u>PI; with 6 CoPIs</u>)	2019-2021	240,000
Texas Water Development Board- Statewide synthesis of environmental flow studies (<u>CoPI</u> ; PI is T. Hardy, Texas State Univ.; total project budget is \$240,000)	2018-2021	25,000
National Science Foundation- Dissertation improvement grant for	2016-2018	10,230

L.M. Bower: Intercontinental functional trait patterns and comparison of fish assemblages (<u>PI</u>)		
Texas Commission on Environmental Quality- RUAA for steams in Texas (<u>PI</u>)	2015-2017	370,000
Texas Parks and Wildlife Department - Potential influence of exchanges between the Lower Guadalupe River and oxbow lakes on food web dynamics (<u>PI</u>)	2015-2017	70,794
Gulf Coast Prairie Landscape Conservation Cooperative via contract with Univ. North Texas- Quantification of alligator gar recruitment dynamics using a river-stage specific floodplain inundation model (<u>CoPI</u> ; PI is D.J. Hoeinghaus; total project budget is \$200,000)	2015-2017	12,595
Texas Water Research Institute- RUAA for Arenosa Creek (<u>PI</u>)	2015	78,532
Texas Water Development Board via contract with BioWest- Environment flows research for the Brazos River Basin (<u>CoPI</u>) (Other CoPIs, E. Oborny, T. Bonner, G. Guillen, B. Brooks, J. Duke; total project budget is \$312,000)	2014-2015	25,000
Texas Commission for Environmental Quality- RUAA for streams in Texas (<u>PI</u>)	2014-2015	270,000
CAPES, Science Without Borders (Programa Pesquisador Visitante Especial)(Collaborator)(PIs are A. Agostinho and L. Gomes, Univ. Est. de Maringá, Brazil)(total budget for collaborative project to synthesize knowledge and model dynamics of the Upper Paraná River ecosystem is \$192,583)	2014-2016	88,712
NSF, Belmont Forum, Collaborative Research: Maintaining productivity and incomes in the Tonle Sap fishery in the face of climate change (<u>CoPI</u>)(PI is L. Hannah, Conservation International, total award for collaborative project is \$620,845)	2013-2016	37,514
Texas Parks and Wildlife Department/SWG- Flow dependent species: life history and habitat associations in Texas Gulf Coast Rivers (<u>PI</u> ; CoPI is K. Conway)(\$110,000 was to my lab)	2013-2014	135,000
National Science Foundation, DEB- Collaborative Research: Baseline survey of the Lower Xingu River rapids, Brazil: a highly diverse, globally unique, and immediately imperiled ecosystem (<u>PI</u>)(PI of a separate companion NSF grant fro this collaborative research project is J. Lundberg; CoPIs are N. Lujan & M. Sabaj)	2013-2016	126,585

National Science Foundation, EAR-CR-Water Sustainability and Climate: Integrative modeling of the interactions, connectivity and interdependence of water systems and ecosystem services in the Lower Mekong Basin (<u>Collaborator</u> , PIs J. Felkner, S. Shaikh) (Total project budget is \$150,000)	2012-2013	3,000
Texas Commission for Environmental Quality- RUAA for Texas rivers and streams (<u>PI</u>)	2011-2013	240,357
National Park Service, Gulf Coast Cooperative Ecosystems Studies Unit- Freshwater flow recommendations to mitigate effects of climate change to estuarine habitats (<u>PI</u>)	2011-2013	76,375
Texas Commission for Environmental Quality- RUAA for streams in the Brazos River Basin (<u>PI</u> ; CoPIs D. Scott, S. Shafer) (My budget = \$284,291)	2010-2011	299,512
TXDoT contract with IRNR- Assessing the Status of Freshwater Mussels in Texas (<u>PI</u> ; CoPI N. Wilkins)	2009-2010	28,168
Texas Commission for Environmental Quality- RUAA for streams in the Brazos River Basin (<u>PI</u> ; CoPIs D. Scott, S. Shafer) (My budget = \$293,025)	2009-2010	384,731
International Sportfish Fund- Funds donated by the estate of Carolyn Kelso Weirichs for fisheries ecology research (<u>PI</u>)	2009	1,000,000
National Science Foundation- Dissertation improvement grant for A.A. Pease: Fish assemblage structure and functional trait diversity along a longitudinal fluvial gradient (<u>PI</u>)	2008-10	10,780
Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil- Structure and dynamics of aquatic food webs of Lagoa do Peixe National Park, Brazil. (<u>CoPI</u> ; PI A. Garcia; other CoPIs J. Vieira, D. Hoeninghaus, P. Abreu, D. Loebman)(My budget is ~0.5K)	2008-09	20,315
National Geographic Society- Diversity among endemic fishes in the Rio Iriri, Xingu Basin, Para State, Brazil (<u>CoPI</u> ; PI H. Lopez; other CoPIs I. Farias, L. Rapp-Py-Daniels, T. Hrbek, G. Orti, S. Willis)	2008-09	16,310
Texas Commission for Environmental Quality- Recreational Use attainability analysis (RUAA) for bayous in Houston, Texas (<u>PI</u> ; CoPIs D. Scott, S. Shafer)(My budget = \$181,736)	2008	343,000
Texas Commission for Environmental Quality- Review of desktop methodology for establishing environmental flows in Texas rivers	2007-08	107,000

and streams (PI)

Texas Commission for Environmental Quality- Development of biological indicators of nutrient enrichment for application in Texas streams (<u>CoPI</u> with a budget of \$39,619; <u>PI</u> - R. King, Baylor)	2007-09	70,769
National Science Foundation- IGERT: Applied biodiversity science graduate training grant (<u>CoPI</u> ; <u>PI</u> L. Fitzgerald; other <u>CoPIs</u> A. Stronza, U. Kreuter, T. Lacher) (My budget in support of 3 trainees is ~250K)	2007-12	3,002,038 <i>+TAMUS match of \$100,000</i>
National Science Foundation- REU Supplement to: Adaptive radiation and evolutionary convergence in Neotropical cichlids (<u>PI</u>)	2007-08	12,000
National Science Foundation, DEB- Adaptive radiation and evolutionary convergence in Neotropical cichlids (<u>PI</u> ; <u>CoPI</u> R.L. Honeycutt) (My budget = 232,239)	2005-09	232,239
Texas Commission for Environmental Quality- Refinement and validation of habitat quality indices (HQI) and aquatic life use (ALU) indices for application to assessment and monitoring of Texas surface waters (<u>PI</u> ; <u>CoPI</u> R. King, Baylor Univ.)(My budget = \$204,050)	2005-90	371,050
National Science Foundation- Biological Instrumentation- A capillary based automated sequencer for high throughput sequencing and genotyping at the Center for Biosystematics & Biological Diversity (<u>CoPI</u> ; <u>PI</u> A. Cognato; other <u>CoPIs</u> J. Bickham, R. Honeycutt, J. Manhart, R. Long, A. Pepper)(budget shared equally)	2004-06	129,985 <i>+TAMUS match of \$54,423</i>
National Science Foundation- Dissertation improvement grant for C.A. Layman: Complex effects of humans and piscivores on fish assemblages in a species-rich tropical river (<u>PI</u>)	2004-05	8,030
The Nature Conservancy- Development of draft environmental flow recommendations for Caddo Lake (<u>PI</u>)	2004-05	67,000
Texas Water Development Board- Response of oxbow lake biota to hydrologic exchanges with the Brazos River channel (<u>PI</u> ; <u>CoPI</u> F. Gelwick) (My budget = \$72,000)	2003-04	72,000
U.S. Army Corps of Engineers- Response of stream and riparian biota of the Pedernales River Basin to variation in landscape features and vegetation cover (<u>PI</u> ; <u>CoPIs</u> N. Wilkins, C. Munster, B. Wilcox, J. Cathey) (My budget = \$66,250)	2003-04	254,000
National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (<u>PI</u>)	2003-04	6,000

U.S. Army Corps of Engineers- Response of stream and riparian biota of the Edwards Plateau to variation in landscape features and vegetation cover (<u>PI</u> ; CoPIs N. Wilkins, C. Munster, B. Wilcox) (My budget = 56K)	2003	56,000
National Science Foundation- Undergraduate Mentoring in Environmental Biology. (<u>CoPI</u> ; PI R. Honeycutt; other CoPIs R. Autenrieth, L. Fitzgerald, F. Gelwick, H. Wilkerson)(My budget ~ 300K)	2002-07	442,000
National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (<u>PI</u>)	2002-03	6,000
National Science Foundation- Variable effects of nutrients, productivity, consumption and the flood pulse on floodplain river ecosystems. (<u>PI</u> ; CoPIs D. Roelke, J. Cotner)(my budget ~ 230K)	2001-05	310,000
National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (<u>PI</u>)	2001-02	6,000
National Geographic Society- Ecological determinants of biodiversity in a neotropical blackwater river (<u>PI</u>)	2001-02	11,475
National Science Foundation- Dissertation improvement grant for D.A. Arrington: Evaluation of a model of local community assembly in a temporally dynamic, species rich neotropical river (<u>PI</u>)	2001-02	6,005
City of Del Rio/Texas Water Development Board- San Felipe Creek environmental monitoring (<u>PI</u>)	2001-03	44,129
U.S. Army Corps of Engineers- Ecosystem/wildlife implications of brush management for water runoff (<u>CoPI</u> ; PI- N. Wilkins)(my budget = 65K)	2001-02	155,840
National Science Foundation- Workshop on biodiversity of the Niger River corridor in Mali. (<u>CoPI</u> ; PI- F. Pezold, Univ. of LA at Monroe) (My budget ~ 2K)	2000-01	37,090
National Geographic Society- Ecological survey of fish diversity in Benin, West Africa. (<u>PI</u>)	2000-01	11,740
International Sportfish Fund (donated funds)- Research on neotropical fishes. (<u>PI</u>)	2000	5,600
National Geographic Society- Population structure of migratory fishes. (<u>PI</u>)	2000	16,720
National Geographic Society- Biological survey of the upper Rio Pasimoni, Venezuela. (<u>PI</u>)	1998-99	18,000
International Sportfish Fund (donated funds)- Research on neotropical fishes. (<u>PI</u>)	1998-99	12,800
Tour Apure- <i>In-kind support</i> (lodging, fuel) for river food web project. (<u>PI</u>)	1998-99	12,000

Brazos River Authority- Biotic indicators of ecological integrity in the Brazos-Navasota River watershed. (PI)	1998-99	36,600
National Geographic Society- First biological survey of Venezuela's Upper Rio Siapa. (PI)	1998-99	14,425
Texas Nature Conservancy- Spatiotemporal fish survey of Mad Island Marsh Preserve. (CoPI, F. Gewick- PI)(My budget ~ 5K)	1997-99	6,725
Texas Nature Conservancy- Effects of an introduced predator on fishes in the Dolan Falls preserve. (PI)	1997-98	2,025
U.S. Fulbright Scholar Program- Teaching/research in Venezuela. (PI)	1996-97	20,000
National Geographic Society- Longitudinal patterns of river fish assemblages. (PI)	1996-97	11,025
U.S. Bureau of Reclamation- Phantom Springs refuge for endangered fishes. (PI)	1993-95	18,100
Electric Power Research Institute- COMPMECH sponsorship for grad student (PI)	1993-96	40,500
Tour Apure- <i>In-kind support</i> (lodging) for peacock bass project. (PI)	1993-94	9,000
Corporación Electrificación del Caroní- <i>In-kind support</i> (food, lodging). (PI)	1993-94	5,000
ASOMUSEO- <i>In-kind support</i> (vehicle rental waivers) peacock bass project. (PI)	1993-94	9,600
Fundación Fluvial de Los Llanos- Ecology of peacock bass in Venezuela. (CoPI, D. Taphorn PI)	1993	3,500
National Science Foundation- Food webs: Integration of patterns and dynamics. (PI; G. Polis, M. Vanni, J. Moore CoPIs)(My budget ~ 20K)	1993	21,800
National Science Foundation- Fish ecology in Latin America. (PI)	1993	21,100
National Geographic Society- Ecology of peacock bass in southern Venezuela. (PI)	1993	5,700
Texas Nature Conservancy- Composition and structure of Texas fish assemblages. (PI)	1993	1,100
National Geographic Society- Prey defense against piranhas in Venezuela. (PI)	1991	3,800
U.S. Fulbright Senior Research Scholarship- Variation in food webs of fish assemblages in Zambia, central Africa. (PI)	1988-89	34,000
NSF- Comparative ecomorphology & community ecology of neotropical fishes. (PI)	1985	4,500
National Geographic Society- Fish biology and community structure in	1984	6,000

Venezuela. (<u>PI</u>)		
Tinker Foundation- Fish diversity and community structure on Atlantic and Pacific slopes of Costa Rica. (<u>PI</u>)	1983	2,000
Sigma Xi, Grants in Aide of Graduate Student Research. (<u>PI</u>)	1980-81	1,350
<i>Institutional Research Grants, Contracts & Awards</i>	<i>period</i>	<i>amount</i>
TAMU Faculty Fellowship	2002-08	\$100,000
Texas A&M Office of Research-Minigrant- Convergent evolution in neotropical cichlids based on molecular phylogenetics. (<u>PI</u>)	2000	1,310
TAMU Interdisciplinary Research Initiative- Migratory fish and food web subsidy- a stable isotope approach. (<u>PI</u>)	1998-99	22,416
Texas A&M Office of Research-Minigrant- Stable isotope of sulfur for examining the role of migratory fish in food webs. (<u>PI</u>)	1998	1,300
Neuhaus Teaching Scholarship- Learning problems in ecology. (<u>PI</u>)	1997	2,560
TAES Research Enhancement Program- Brazos River nutrient/carbon exchange. (<u>CoPI</u> , J. Cotner- <u>PI</u>)(My budget 30K)	1996-97	36,600
TAES Research Enhancement Program- Brazos River floodplain ecosystems. (<u>PI</u>)	1993-95	67,900
TAMU International Programs- International travel grant. (<u>PI</u>)	1993	500