

MATTHEW JOHN TROIA

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PROFESSIONAL APPOINTMENTS

- Assistant Professor, Department of Integrative Biology, University of Texas at San Antonio, (2019–present)
- Assistant Professor, Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, (2019)
- Postdoctoral Research Associate, Department of Ecology and Evolutionary Biology, University of Tennessee (2017–2018), Mentor: Xingli Giam
- Adjunct Instructor, Pellissippi State Community College (2016)
- Hatchery and Field Technician, Conservation Fisheries Inc. (2016)
- Postdoctoral Research Associate, Environmental Sciences Division, Oak Ridge National Laboratory (2014–2015), Mentor: Ryan A. McManamay

EDUCATION

- Doctor of Philosophy Kansas State University. 2014 (Biology)
Advisor: Keith B. Gido
Dissertation: *A Mechanistic framework for understanding prairie stream fish distributions*
- Master of Science University of Texas at Tyler Biology. 2010 (Biology)
Advisor: Lance R. Williams
Thesis: *Spatial and temporal variability in hydrogeomorphic conditions structure fish and mussel assemblages in the upper Neches River*
- Bachelor of Science University of Wisconsin - Eau Claire. 2008 (Biology)

PEER-REVIEWED PUBLICATIONS (314 citations, H-index: 11)

25. Perkin JS, **Troia MJ**, Acre MR. Accepted. Conservation Status of Native Fishes in the Chihuahuan Desert Region of the United States: A Spatial Perspective. *Proceedings of the Desert Fishes Council Special Publication 2021*

24. **Troia MJ**, McManamay RA, Kao S-C, O'Connor PW. 2021. A heuristic tool to assess regional impacts of renewable energy infrastructure on conservation areas. *Biological Conservation*.

23. Veach AM, **Troia MJ**, Cregger MA. 2021. Assessing biogeographic survey gaps in bacterial diversity knowledge: A global synthesis of freshwaters. *Freshwater Biology*.
doi.org/10.1111/fwb.13777

22. **Troia MJ**, McManamay RA. 2020. Biogeographic classification of streams using fish community- and trait-environment relationships. *Diversity and Distributions*. 26, 108-125.

21. **Troia MJ**, *Kaz AL, *Niemeyer JC, Giam X. 2019. Reduced habitat suitability limits efficacy of climate change refugia in streams. *Nature Ecology and Evolution*. 3, 1321–1330

*undergraduate collaborator

20. **Troia MJ**, Giam X. 2019. Extreme heat events and the vulnerability of endemic montane fishes to climate change. *Ecography*. 42, 1913-1925.
19. McManamay RA, **Troia MJ**, DeRolph CR, Sheldon AO, Barnett AR, Kao SC, Anderson MG. 2018. A stream classification system to explore the physical habitat diversity and anthropogenic impacts in riverscapes of the eastern United States. *PLoS ONE*. 13, e0198439.
18. Veach AM, **Troia MJ**, Jumpponen A, Dodds WK. 2018. Top-down effects of a grazing, omnivorous minnow (*Campostoma anomalum*) on stream microbial communities. *Freshwater Science*. 37, 121-133.
17. **Troia MJ** & McManamay RA. 2017. Completeness and coverage of open-access freshwater fish distribution data in the United States. *Diversity and Distributions*. 23, 1482-1498.
16. McManamay RA, Surendran Nair S, DeRolph CR, Ruddell BL, Morton AM, Stewart RN, **Troia MJ**, Tran L, Kim H, Bhaduri BL. 2017. US cities can manage national hydrology and biodiversity using local infrastructure policy. *Proceedings of the National Academy of Sciences*. 114, 9581–9586
15. **Troia MJ**, Gido KB. 2017. Testing metabolic cold adaptation as a driver of warm-water fish species replacement along the river continuum. *Environmental Biology of Fishes*. 100, 265–279
14. **Troia MJ**. 2017. What should your state fish be? Improving public awareness of endemic fishes in the US. *Fisheries*. 42, 9–15.
13. McManamay RA, Brewer S, **Troia MJ**, Jager Y. 2016. Organizing environmental flow frameworks to meet hydropower mitigation needs. *Environmental Management*. 58:365–385.
12. **Troia MJ**, McManamay RA. 2016. Filling in the gaps: evaluating completeness and coverage of open-access biodiversity data in the United States. *Ecology and Evolution*. 6, 4654–4669.
11. Perkin JS, **Troia MJ**, Shaw DC, Gerken JE, Gido KB. 2016. Multiple watershed alterations influence fish community structure in Great Plains prairie streams. *Ecology of Freshwater Fish*. 25, 141–155.
10. **Troia MJ**, *Denk MD, Gido KB. 2015. Temperature-dependent performance as a driver of warmwater fish species replacement along the river continuum. *Canadian Journal of Fisheries and Aquatic Sciences*. 73, 394–405.
*undergraduate collaborator
9. **Troia MJ**, Gido KB. 2015. Functional strategies drive community assembly of stream fishes along environmental gradients and across spatial scales. *Oecologia*. 177, 545–559.
8. **Troia MJ**, Williams LR, Williams MG, Ford NB. 2015. The process domains concept as a framework for fish and mussel habitat in a coastal plain river of southeastern North America. *Ecological Engineering*. 75, 484–496.
7. **Troia MJ**, Whitney JE, Gido KB. 2015. Thermal performance of larval longfin dace (*Agosia chrysogaster*), with implications for climate change. *Environmental Biology of Fishes*. 98, 395–404.
6. Mosher JJ, **Troia MJ**, Fortner AM, Phillips JR, Bevelhimer MS, Stewart AJ. 2015. Spatial and temporal correlates of greenhouse gas diffusion from a hydropower reservoir in the southern United States. *Water*. 7, 5910–5927
5. **Troia MJ**, Whitney JE, Gido KB. 2014. Alternative spawning strategy and temperature for larval emergence of longfin dace (*Agosia chrysogaster*) in stream mesocosms. *The Southwestern Naturalist*. 59, 277–280.

4. **Troia MJ**, Gido KB. 2014. Towards a mechanistic understanding of stream fish niche divergence along a river continuum. *Ecosphere*. 5, 1–18.
3. **Troia MJ**, Gido KB. 2013. Predicting stream fish communities across multiple drainage basins: evaluating model generality and the effect of spatial extent. *Journal of Environmental Management*. 128, 313–323.
2. **Troia MJ**, Ford NB. 2010. Notes on habitat and burrowing behavior of *Obovaria jacksoniana* (Bivalvia: Unionidae) in the upper Neches River. *Texas Journal of Science*. 62,195–199.
1. Wellnitz TA, **Troia MJ**, Ring M. 2010. Does ambient substrate composition influence consumer diversity effects on algal removal? *Hydrobiologia*. 652, 15–22.

OTHER PUBLICATIONS

4. McManamay RA, **Troia MJ**, DeRoph CR, Bevelhimer MS, Schramm MP, Larson KB, Tagestad JD, Johnson GE, Jager HI. 2015. Identifying environmental opportunities outside the hydropower project Boundary: an updated methodology of the basin scale opportunity assessment. Technical Report to the United States Department of Energy.
3. Gido KB, **Troia MJ**. 2014. Forecasting global warming effects on developmental performance of prairie stream fishes along the river continuum. Final Report to the National Science Foundation.
2. Williams LR, Riley B, **Troia MJ**, & Williams, MG. 2009. An Ecological Assessment and Outreach Program for Quail Creek, The Nature Center, Texas Parks and Wildlife Division.
1. Williams LR, Ford NB, Williams MG, Jog S, **Troia MJ**. 2009. Hydrologic and Geomorphic Controls on Fish, Mussel, and Riparian Vegetation Communities in the Upper Neches River Watershed. Annual Performance Report to Texas Parks and Wildlife.

RESEARCH FUNDING (Total: \$600,496)

14. Section 6, Texas Parks and Wildlife Department (**Troia MJ**, Schlechte W, Robertson S). *Assessing acute and chronic thermal sensitivity and exposure of spring-associated fishes*. January 2022–December 2024. \$132,408
13. State Wildlife Grant, Texas Parks and Wildlife Department (**Troia MJ**, Schlechte W, Kelly M, Young D). *Multiscale thermal vulnerability for fishes in urbanizing, spring-influenced streams of central Texas*. September 2021–December 2024. \$159,744
12. State Wildlife Grant, Texas Parks and Wildlife Department (**Troia MJ**, Linam G, Myers R, Donovan S). *Assessing the restored Guadalupe Bass population in the Mission Reach, San Antonio*. July 2021–June 2022. \$42,172
11. Science Applications, United States Fish and Wildlife Service (**Troia MJ**, Smith JA). *Surveying, modeling, and mapping non-native crayfish in the Gila and Little Colorado River basins*. October 2020–September 2023. \$220,609
10. University of Texas at San Antonio (**Troia MJ**). *Biology of the invasive Texas cichlid (*Herichthys cyanoguttatus*) in Cibolo Creek*. January 2021–December 2022. \$2,996
9. Texas Ecological Laboratory. *Assessing spatial and seasonal drivers of fish physiology and population dynamics in Edwards Plateau streams*. January 2020–December 2020. \$6,861
8. Graduate College, Kennesaw State University, Summer Competitive Graduate Assistantship Grant. *Mapping efficacy of protected areas to support fish biodiversity in the Mobile River system*. May 2019–August 2019. \$12,000

7. Graduate College, Kennesaw State University, Academic Year Competitive Graduate Assistantship Grant. *Mapping efficacy of protected areas to support fish biodiversity in the Mobile River system*. May 2019–August 2019. \$2,500
6. Carlos C. Campbell Memorial Fellowship, Great Smoky Mountains Conservation Association. *Assessing fine-scale temperature heterogeneity in the Little River: implications for fish thermal refugia in a warming climate*. February 2018–January 2019. \$4,790
5. College of Arts and Sciences, Kansas State University (*Denk M, **Troia MJ**, Gido, KB). *Testing for interspecific variation in temperature-dependent feeding rates within the genus Pimephales (Cyprinidae: Teleostei)*. February 2014–October 2014. \$250
*undergraduate collaborator
4. National Science Foundation (Gido KB, **Troia MJ**). *DISSERTATION RESEARCH: Forecasting global warming effects on developmental performance of prairie stream fishes along the river continuum*. April 2013–April 2014. \$12,695
3. Prairie Biotic Research, Inc. (**Troia MJ**, Gido KB). *Forecasting global warming effects on hatch success of prairie stream fishes*. April 2013–April 2014. \$971
2. Howard McCarley Student Research Award, Southwestern Association of Naturalists (**Troia, MJ** & Gido, KB). *Testing temperature-dependent egg development as a driver of prairie fish distributions: implications for mechanistic niche models and climate change*. April 2013–April 2014. \$1,000
1. Doctoral Student Research Grant, Kansas Academy of Science (**Troia, MJ** & Gido, KB). *Testing temperature-dependent egg development as a driver of prairie fish distributions: implications for mechanistic niche models and climate change*. April 2013–April 2014. \$1,500

TEACHING

University of Texas at San Antonio:

- ES 3113 –Ichthyology, undergraduate (Spring 2020, Spring 2021)
- ES 5743–Ichthyology, graduate (Spring 2020, Spring 2021)
- ES 3953–Topics in ES: Fish Ecology (Fall 2020, Fall 2021)
- ES 6973–Special Topics: Fish Ecology (Fall 2020, Fall 2021)
- ES 3953–Topics in ES: R Coding and Open-source Data (Fall 2021)
- ES 6973–Special Topics: R Coding and Open-source Data (Fall 2021)
- ES 2113–Geographic Information Systems (Fall 2020)
- ES 4913–Independent Study, undergraduate (Summer 2020)
- ES 6951/3–Independent Study, graduate (Spring 2020, 2021; Summer 2021; Fall 2020, 2021)

University of Tennessee:

- BIO 150–Organismal and Ecological Biology, guest lecture (5 September 2017, 7 September 2017)
- EEB 470–Organismal and Ecological Biology, guest lecture (20 April 2018)

Pellissippi State Community College:

- Biology 1110–General Biology I (Fall 2016)
- Biology 1120–General Biology II (Spring 2016)

Kansas State University:

- Biology 198–Principles of Biology, studio format (Spring 2011, 2012, 2013; Fall 2010, 2011)
- Biology 514–Physiology of Adaptation, laboratory format (Fall 2013)
- Biology 682–Fish Ecology, guest lecture (23 Oct 2013)
- Biology 682–Ichthyology, guest lecture (15 April 2014)

- Biology 696–Fisheries Management, laboratory format (Fall 2012)

The University of Texas at Tyler:

- Biology 1106–General Biology I, laboratory format (Fall 2008, Spring 2009)
- Biology 2101–Anatomy and Physiology, laboratory format (Fall 2009, Spring 2010)

RESEARCH MENTORING

Graduate:

- Elizabeth Rosas. University of Texas at San Antonio.
Thesis Title: *Characterizing the thermal niche of Rio Grande cichlids (Herichthys cyanoguttatus) using physiological bioenergetic assays.*
Anticipated graduation 2022.
- Mary Finucane. University of Texas at San Antonio.
Thesis Title: *Assessing the restored Guadalupe Bass population in the Mission Reach, San Antonio.*
Anticipated graduation 2022.
- Anthony Javiya. University of Texas at San Antonio.
Thesis Title: *Surveying, modeling, and mapping non-native crayfish in the Gila and Little Colorado River basins.*
Anticipated graduation 2023.
- Amanda Martinez. University of Texas at San Antonio.
Thesis Title: *Evaluating artificial light at night on behavior of red swamp crayfish (Procambarus clarkii).*
Anticipated graduation 2023.
- James Robbie Carl. Kennesaw State University.
Thesis Title: *Assessing the adequacy of protected areas for fish conservation in the Mobile basin.*
Graduated 2020.

Undergraduate:

- Kathryn McMahon, University of Texas at San Antonio (2021–Present)
Project Title: *Assessing acute thermal tolerance of Mexican tetras (Astyanax mexicanus)*
- Zach Thomas, University of Texas at San Antonio (2019)
Project Title: *Assessing biological attributes of Edwards Plateau springs*
- Jake Smith, Kennesaw State University (2019)
Project Title: *Assessing intraspecific shape variation along physiographic gradients using geometric morphometric analysis.*
- Anna Kaz. University of Tennessee (2018–2019)
Project Title: *Assessing Fine-scale Temperature Heterogeneity in the Little River: Implications for Fish Thermal Refugia in a Warming Climate.* (2018–2019)
- Cameron Niemeyer. University of Tennessee. Harden Valley Academy Career Mentoring Program (2018)
- Michael Denk. Kansas State University (2012–2014).
Project Title: *Testing for interspecific variation in temperature-dependent feeding rates within the genus Pimephales (Cyprinidae: Teleostei).*

PRESENTATIONS (only first authored listed)

Invited Seminars: (*Seminar for postdoctoral position. **Seminar for tenure-track faculty position)

Troia MJ. 2020. Physiological and distributional ecology of southern Appalachian fishes. University of Texas at Tyler, Tyler, TX.

Troia MJ. 2019. Physiological and distributional ecology of southern Appalachian fishes. Baylor University, Waco, TX.

Troia MJ. 2019. Physiological and distributional ecology of southern Appalachian fishes. University of Southern Mississippi, Hattiesburg, MS.

Troia MJ. 2019. Physiological and distributional ecology of southern Appalachian fishes. Kennesaw State University, Kennesaw, GA.

****Troia MJ.** 2018. Quantitative approaches in freshwater ecology and conservation. Kennesaw State University, Kennesaw, GA.

****Troia MJ.** 2018. Exploring drivers of freshwater fish diversity: Insights from physiological and community ecology. Tennessee Technological University, Cookeville, TN.

****Troia MJ.** 2016. Exploring drivers of freshwater fish diversity: Insights from physiological, community, and broad-scale approaches. West Chester University, West Chester, PA.

****Troia MJ.** 2016. Exploring species-environment relationships of stream fishes: mechanisms and conservation applications. Department of Biology, Lincoln Memorial University. Harrogate, TN.

Troia MJ. 2015. Exploring species-environment relationships of stream fishes: mechanisms and conservation applications. Department of Biology, Tennessee Tech University. Cookeville, TN.

Troia MJ. 2015. Toward a mechanistic understanding of stream fish distributions. Biology Department, University of Wisconsin–Eau Claire. Eau Claire, WI.

***Troia MJ.** 2014. Toward a mechanistic understanding of stream fish distributions. Environmental Sciences Division, Oak Ridge National Laboratory. Oak Ridge, TN.

***Troia MJ.** 2014. Toward a mechanistic understanding of stream fish distributions. Department of Biological Science, University of Tulsa. Tulsa, OK.

Invited Oral:

Troia MJ, Perkin JS. 2021. Assessing climate change vulnerability of Guadalupe bass (*Micropterus treculii*): comparing bioenergetics and species distribution modeling. Southern Division American Fisheries Society Meeting, Virtual.

Troia MJ & Gido KB. 2014. Temperature-dependent egg hatch success of congeneric minnows: implications for mechanistic niche models and climate change. Wilks Award Session, Southwestern Association of Naturalists Annual Meeting. Stillwater, OK.

Troia MJ & Gido KB. 2013. Diversity and distribution of prairie stream fishes. Kansas Chapter of the American Fisheries Society–Student Section. Manhattan, KS.

Troia MJ & Gido KB. 2012. Predicting the distribution of two congeneric cyprinids across a riverscape using environmental niche modeling and in-stream experiments. Midwest Fish and Wildlife Annual Meeting. GIS in Fisheries Symposium. Wichita, KS.

Troia MJ, Ford NB, Williams MG & Williams LR. 2011. Unionid mussel diversity and community structure of the Neches River, east Texas. Kansas Chapter of the American Fisheries Society–Student Section. Manhattan, KS.

Contributed Oral:

Troia MJ, Perkin JS. 2020. Assessing climate change vulnerability of Guadalupe bass (*Micropterus treculii*): comparing bioenergetics and species distribution modeling. American Fisheries Society, Texas Chapter.

Troia MJ, Kaz AL Giam X. 2019. Vulnerability of four endemic fishes to climate warming in a temperate biodiversity hotspot. Great Smoky Mountains National Park Science Colloquium, Gatlinburg, TN.

Troia MJ & Giam X. 2018. Vulnerability of four endemic fishes to climate warming in a temperate biodiversity hotspot. Annual meeting of the Ecological Society of America, New Orleans, LA.

Troia MJ & Giam X. 2018. Vulnerability of four endemic fishes to climate warming in a temperate biodiversity hotspot. Annual meeting of the Society for Freshwater Science, Detroit, MI.

Troia MJ & McManamay RA. 2015. Using species–environment relationships to classify streams in the eastern United States. Annual meeting of the American Fisheries Society Meeting, Portland, OR.

Troia MJ & McManamay RA. 2015. Validating stream classification schemes for the eastern US with functional composition of fish communities. Southern Division American Fisheries Society Meeting, Savannah, GA.

Troia MJ & Gido KB. 2014. Temperature-dependent egg hatch success of congeneric minnows: implications for mechanistic niche models and climate change. Joint Aquatic Science Meeting, Portland, OR.

Troia MJ & Gido KB. 2014. Temperature-dependent egg hatch success of congeneric minnows: implications for mechanistic niche models and climate change. Kansas Academy of Science Annual Meeting, Emporia, KS.

Troia MJ & Gido KB. 2014. Does temperature predict fish distributions in prairie streams? Correlative and mechanistic approaches. Kansas Natural Resources Conference, Wichita, KS.

Troia MJ & Gido KB. 2013. Testing community assembly mechanisms of stream fishes across functional traits, environmental gradients, and spatial scales. International Biogeography Society Special Meeting, Montreal, Quebec, Canada.

Troia MJ & Gido KB. 2013. Experimental assessment of individual performance currencies reveals mechanistic underpinnings of environmental niche models for prairie stream fishes. Ecological Society of America Annual Meeting, Minneapolis MN.

Troia MJ & Gido KB. 2012. Predicting Stream Fish Communities Across Multiple Drainage Basins of the Great Plains. American Fisheries Society Annual Meeting, St. Paul MN.

Troia MJ & Gido KB. 2012. Predicting Stream Fish Communities Across Multiple Drainage Basins of the Great Plains. Kansas Natural Resources Conference, Wichita, KS.

Troia MJ & Gido KB. 2011. Predicting Stream Fish Communities Across Multiple Drainage Basins of the Great Plains. Joint Great Plains Limnology Conference and Triennial Oklahoma-Texas Aquatic Research Group Meeting, University of Oklahoma Biological Station, OK.

Troia MJ & Gido KB. 2011. Environmental correlation structure and model transferability for Great Plains stream fishes. North American Benthological Society Annual Meeting, Providence, RI.

Troia MJ & Gido KB. 2011. Environmental correlation structure and model transferability for Great Plains stream fishes. Southwestern Association of Naturalists Annual Meeting, Tyler, TX.

Troia MJ, Ford NB, Williams MG & Williams LR. 2010. Stage-dependent hydrogeomorphology structures fish assemblages at Multiple Spatial scales. Texas Chapter of the American Fisheries Society Annual Meeting, Athens, TX.

Troia MJ, Williams LR, Williams MG & Ford NB. 2010. Channel Geomorphology, and Hydrology Structure Fish Assemblages in the Upper Neches River.

Posters:

Troia MJ & Gido KB. 2014. Temperature-dependent developmental rate within and among congeneric minnows: a test of metabolic scaling theories. Southwestern Association of Naturalists Annual Meeting. Stillwater, OK.

Troia MJ & Gido KB. 2012. Predicting water temperature regimes in a Great Plains river basin. NSF EPSCoR Cybercommons Annual Meeting, Manhattan, KS.

Troia MJ & Wellnitz TA. 2007. Does functional diversity and substrate composition shape primary productivity in an experimental aquatic ecosystem? Ecological Society of America / Society for Ecological Restoration Joint Meeting, San Jose, CA.

PROFESSIONAL SERVICE

Editorial Service:

- Subject-matter Editor, *Ecosphere* (2020–present)

Referee Service:

- Southwestern Naturalist
- Hydrobiologia
- Freshwater Science
- Environmental Biology of Fishes
- Journal of Applied Ecology
- Journal of Environmental Management
- Canadian Journal of Fish and Aquatic Science
- Global Change Biology
- Ecology and Evolution
- Aquatic Ecology
- Biological Conservation
- Trans. of the American Fisheries Society
- Journal of Biogeography
- Global Ecology and Biogeography
- Ecology of Freshwater Fish
- American Midland Naturalist
- PLoS ONE
- Ecosphere
- Science of the Total Environment
- Ecosphere
- Proceedings of the Royal Society B

Professional Society Service:

- Newsletters Chair, Texas Chapter American Fisheries Society (2020–present)
- Co-chair Student Awards Selection Sub-Committee, Society for Freshwater Science (2018–present)

Institutional Service:

- Graduate Council, Representative
University of Texas at San Antonio (2020/2021–2021/2022)
- Graduate Studies Committee, Member
Department of Environmental Science of Ecology, University of Texas at San Antonio (2019–present)
- Graduate Student Representative, Preliminary Examination Revision Committee, Division of Biology, Kansas State University (January 2013–December 2013).
- Chair of Travel and Training Grants Committee, Biology Graduate Student Association, Division of Biology, Kansas State University (2011–2012).

AWARDS AND RECOGNITIONS

- 2021 Sustainability Science Award, Ecological Society of America.
- 2015 Alumni Spotlight Interview, University of Texas at Tyler.
Available at: <https://www.uttyler.edu/graduate/future-students/matttroia.php>

- 2014 Wilks Award Finalist, Southwestern Association of Naturalists Annual Meeting. Paper Title: Temperature-dependent hatch success of congeneric minnows: implications for mechanistic niche models and climate change.
- 2014 Best Doctoral Student Presentation, Kansas Academy of Science Annual Meeting. Paper Title: Temperature-dependent hatch success of congeneric minnows: implications for mechanistic niche models and climate change.
- 2014 Best Student Poster, Kansas Chapter of the American Fisheries Society Meeting (co-authored with undergraduate collaborator, Michael Denk). Paper Title: Temperature-dependent feeding rates of congeneric minnows: implications for mechanistic niche modeling.
- 2012 Otto Tiemeier/Frank Cross Graduate Student Scholarship, American Fisheries Society Kansas Chapter
- 2010 Graduate Award for Outstanding Service, University of Texas at Tyler
- 2007 Jerry & Elizabeth Smith Scholarship, University of Wisconsin - Eau Claire
- 2007 Mary Lou & John Gerberich Scholarship, University of Wisconsin - Eau Claire
- 2007 Kurt & Karen Fish Scholarship, University of Wisconsin - Eau Claire
- 2007 Jim Fisher Memorial Scholarship, University of Wisconsin - Eau Claire
- 2006 Jim Fisher Memorial Scholarship, University of Wisconsin - Eau Claire

PROFESSIONAL SOCIETY MEMBERSHIPS

- Society for Freshwater Science
- American Fisheries Society
- Ecological Society of America