September 2026

Zachary A. Mitchell

School of Biology and Biomedical Sciences
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I. Education

2020 Ph.D., Aquatic Resources and Integrative Biology, Department of Biology, Texas State University, San Marcos, Texas

Dissertation: *The role of life history strategies and drying events in shaping mussel communities: a multiscale approach*

2016 M.S., Biological Sciences, Department of Biological Sciences, Eastern Illinois University, Charleston, Illinois

Thesis: *Sampling efficiency, population characteristics, and potential impacts of harvest regulations on three riverine species of catfish*

2014 B.S., *cum laude*, Wildlife, Fisheries, and Aquaculture Science, College of Forestry, Mississippi State University, Starkville, Mississippi

II. Employment History

2026-present	Graduate Coordinator, Texas A&M University-Kingsville
2024-present	Assistant Professor, Texas A&M University-Kingsville
Fall 2024	Adjunct Instructor, Eastern New Mexico University
Spring 2024	Graduate Coordinator, Eastern New Mexico University
2022-2024	Assistant Professor, Eastern New Mexico University
2020-2021	Postdoctoral Research Associate, Texas State University
2018-2020	Graduate Instructional Assistant, Texas State University
2016-2018	Graduate Research Assistant, Texas State University
2014-2016	Graduate Research Assistant, Eastern Illinois University
2012-2014	Aquaculture Technician, Mississippi State University
2013	Cutthroat Trout Technician, Utah DNR Wildlife Resources

III. Teaching Experience

Instructor of Record (S = spring semester, F = fall semester, Su = summer semester)

- Conservation Biology, TAMUK (F `26)

- Fisheries Management and Conservation, TAMUK (S `26)
- Marine Ecology, TAMUK (F `25)
- Ichthyology, TAMUK (F `24, `26)
- General Biology II, TAMUK (every semester from F `24- Su `26)
- Ichthyology, ENMU (S `23)
- Fisheries Management and Conservation, ENMU (F `22, `24)
- Limnology, ENMU (S `22, `24)
- General Ecology, ENMU (every semester from S `22- S `24)
- General Biology (non-majors), ENMU (Su `24)
- Principles of Biology, ENMU (S `22, F `22)
- Wildlife Biology, ENMU (F `22)
- Mammalogy, ENMU (F `22)
- Aquatic Ecology, TXST (F `21)

Guest Lecturer:

- Ecological Data Analysis using R, Landscape Ecology and GIS, ENMU (S `24)
- Welcome to R Studio! Using R for Ecological data analysis, Wildlife Conservation and Management, ENMU (S `23)
- Freshwater Mussel Population Dynamics, Aquatic Biology, TXST (F `18)
- Aquaculture History and Management, Fisheries Management, EIU (S `14)

Instructional Assistant

- General Ecology, TXST (F `18/ S `19, `20)
- Aquatic Biology, TXST (F `19)

Guest Lab Instructor

- Comparison of fish assemblages of lotic and lentic ecosystems, Fisheries Management, EIU (2014-2015)

IV. Peer-Reviewed Manuscripts (student author: *undergraduate, ^ graduate)

Mitchell, Z.A., Schwalb, A.N. (2026). Scale invariant patterns of life history strategies of riverine mussels are shaped by hydrologic factors. *Freshwater Biology*. https://doi.org/10.1111/fwb.70314

Winemiller, K.O., Perkin, J.S., Trungale, J.F., Hoeinghaus, D.J., Moore, G.W., Schwalb, A.N., **Mitchell Z.A.**, Trimble, A., Reeves, C., T.B., Buzan, D. (2024). Advancing Environmental Flows Science: Monitoring, Hindcasting and Forecasting Flow-Ecology Relationships. *Fisheries*. https://doi.org/10.1002/fsh.11092

Cushway, K.C., Harris, A.E., Piercy, C.D., **Mitchell, Z.A.**, Schwalb, A.N. (2024). Go with the flow: impacts of high and low flow conditions on freshwater mussel assemblages and distribution. *PLOS ONE*. https://doi.org/10.1371/journal.pone.0296861

Torres, C.G.^, Pollock, D.A., **Mitchell, Z.A.**, Cradock, K.R. (2023). The effects of insect

repellent in initial dipteran colonization of decomposing pig remains. *Journal of Medical Entomology*. https://doi.org/10.1093/jme/tjad148

Mitchell, Z.A., Cottenie, K., Schwalb, A.N. (2023). Trait-based and multi-scale approach provides insight on responses of freshwater mussels to environmental heterogeneity. *Ecosphere.* https://doi.org/10.1002/ecs2.4533

Mitchell, Z.A., Schwalb, A.N. (2021). Seasonality of gamete production of *Cyclonaias* species in central Texas. *Freshwater Mollusk Biology and Conservation*. https://doi.org/10.31931/fmbc-d-20-00013

Hernandez, B., **Mitchell, Z.A.**, Robertson, C., Schwalb, A.N. (2021). Burrowing behavior of unionid mussels in subtropical rivers: Implications for management and conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems.* https://doi.org/10.1002/aqc.3525

Mitchell, Z.A., Burlakova, L., Karatayev, A.Y., Schwalb, A.N. (2021). Changes in community composition of riverine mussels after a severe drought depends on local conditions: A comparative study in four tributaries of a subtropical river. *Hydrobiologia*. https://doi.org/10.1007/s10750-019-04058-3

Mitchell, Z.A., McGuire, J., Abel, J., Hernandez, B., Schwalb, A. (2018). Move on or take the heat: Can life history strategies of freshwater mussels predict their physiological and behavioural responses to drought and dewatering? *Freshwater Biology*. https://doi.org/10.1111/fwb.13187

Allen, P. J., **Mitchell, Z. A.**, DeVries, R. J., Aboagye, D. L., Ciaramella, M. A., Ramee, S. W., Stewart, H. A. and Shartau, R. B. (2014). Salinity effects on Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus* Mitchill, 1815) growth and osmoregulation. *Journal of Applied Ichthyology*. doi: 10.1111/jai.12542.

V. Manuscripts in press, revision, and review (student author: *undergraduate, ^ graduate)

Mitchell, Z.A. (*in revision*). Toxicity of wildfire retardants on juvenile Rio Grande Cutthroat Trout in pulsed exposures across thermal regimes. Submitted to *The Southwestern Naturalist*.

Cushway, K., **Mitchell, Z.A.**, Morris, T. J., Cottenie, K., Woolnough, D. A., and A. N. Schwalb. (*in review*) Bridge Bias: Is convenience sampling misleading conservation? Submitted to *Biological Conservation*.

VI. Manuscripts in preparation (student author: *undergraduate, ^ graduate)

Mitchell, Z.A., Pulcini, B.^ Understanding fish stranding and mortality in regulated flows: a combined field and experimental approach.

Webb, N.S.^, Pollock, D., Green, C., and **Mitchell, Z.A**. Evaluating the upper thermal tolerance of the Rio Grande Chub (*Gila pandora*).

Cradock, K., **Mitchell, Z.A**., Green, C. Improving data literacy in undergraduate education.

Mabry, Z.C.^, McGovern, J. M.^, Sweeten, L. D.^, **Mitchell, Z.A**. Assessing hurricane impacts on functional diversity of Texas estuarine fishes.

VII. Research Grants: $1,474,253.97 in total (student author: *undergraduate, ^ graduate)

Mitchell, Z.A. (PI). (***Selected for funding; Estimated start date: November 2026***) Tracking Southern Flounder Recruitment Timing Using Ichthyoplankton Sampling at Texas Coastal Passes. FY27 State Wildlife Grant, TPWD Coastal Fisheries. Amount awarded: $91,445.00

Mitchell, Z.A. (PI), Portnoy, D. (Co-PI; TAMUCC), Conway, K. (Co-PI; TAMU). (***Selected for funding; Estimated start date: January 2027***). *Linking Habitat Use, Flow Regime, and Genomic Structure to Support Conservation of Dionda Species in Texas*. Texas Comptroller: Texas Endangered Species Management Research FY26. Amount awarded: $279,994.88.

Tonoy, D. (PI), **Mitchell, Z.A. (Co-PI)**, Ren J. (Co-PI), Dattamundi, S. (Co-PI), Ancona-Contreras, V. (Co-PI). (2026) *Micro-FTIR Imaging Spectroscopy for Assessing Microplastic Contamination in Agricultural Soils, Water, and Food Systems*. USDA NIFA Equipment Grants Program. Amount awarded: $172,479.00.

Mitchell, Z.A. (PI). April 2026. *Aquatic Linkages: How Rain and Water Quantity Drive Crayfish Abundance in South Texas.* Texas Ecolab Program. Amount awarded: $2,350.00.

Mitchell, Z.A. (PI), Shartau, R. (Co-PI; WSU). August 2025. *Assessing Distribution, Habitat Use, and Environmental Tolerances of Data-Deficient Texas Crayfish*. Texas Comptroller: Texas Endangered Species Management Research FY25. Amount awarded: $279,889.18.

Mitchell, Z.A. (PI). January 2025. *Campus Creatures: Unveiling TAMUK's Hidden Biodiversity.* Title V FP2s Grant on Undergraduate Research Course Redesign. Amount awarded: $2,900.00.

Davis, D.R. (PI), Green, C. (Co-PI), **Mitchell, Z.A. (Co-PI)**. January 2024. *Increasing our understanding of the Rio Grande Cooter to inform future recovery options.* Submitted to the National Fish and Wildlife Foundation: Pecos Watershed Conservation Initiative. Amount awarded: $235,671.52.

Cabrales-Arrellano, C.P. (PI), **Mitchell, Z.A. (Co-PI)**, Ceh-Varela, E. (Co-PI). *Microplastics monitoring of water in the Texas-New Mexico-Chihuahua region*. August 2024. Submitted to the North American Development Bank (BORDER 2025). Amount

awarded: $74,910.00.

Green, C. (PI), **Mitchell, Z.A. (Co-PI)**. August 2024. *Wildfire, Water, and Wildlife: Assessing Beaver Pond's Role in Mitigating Wildfire Impacts on Aquatic Ecosystems and Water Security*. New Mexico Water Resource Research Institute, Faculty Research Grant Program. Amount awarded: $39,947.00.

Ashlyn Reynolds^, **Mitchell, Z.A. (faculty PI)**. September 2023. *Does beaver presence increase wildfire resistance of streams in New Mexico?* New Mexico Water Resource Research Institute, Student Research Grant Program (NMWRRI- SG-FALL2023). Amount awarded: $7,422.35.

Mitchell, Z.A. (PI). May 2023. *Evaluating the thermal tolerance of the Rio Grande Chub (Gila pandora)*. ENMU Faculty Research and Instructional Development Program. Amount awarded: $6,494.00.

Brittany Pulcini^, **Mitchell, Z.A. (faculty PI)**. December 2022. *Influence of seasonality on the relative importance of abiotic and biotic factors in determining fish survival in isolated pools in New Mexico rivers*. New Mexico Water Resources Research Institute, Student Water Research Grant Program. Amount awarded: $7,455.00.

Jodie Montgomery*, **Mitchell, Z.A. (faculty PI)**. December 2022. *Effects of catastrophic wildfire on stream macroinvertebrate communities in northern New Mexico*. New Mexico Water Resources Research Institute, Student Water Research Grant Program. Amount awarded: $7,446.57.

Jodie Montgomery*, **Mitchell, Z.A. (faculty PI)**. September 2022. *Effects of catastrophic wildfire on stream macroinvertebrate communities in northern New Mexico*. New Mexico Alliance for Minority Participation- Undergraduate Research Scholars Program. Amount awarded: $1,200.00.

Ashlyn Reynolds*, **Mitchell, Z.A. (faculty PI)**. September 2022. *Toxicity of fire retardant in pulsed exposures to Rio Grande Cutthroat Trout under varying temperatures*. New Mexico Alliance for Minority Participation- Undergraduate Research Scholars Program. Amount awarded: $1,200.00.

Mitchell, Z.A. (PI). September 2022. *Drying Rivers: Responses of Riverine Biota in Isolated Pools during Reduced Stream Flow*. New Mexico Water Resource Research Institute, Faculty Research Grant Program. Amount awarded: $32,673.23.

Mitchell, Z.A. (PI), Cradock, K. (Co-PI). July 2022. *Improving Data Literacy in Undergraduate Biology Education*. National Science Foundation; Division of Undergraduate Education. Amount awarded: $390,794.00.

Justin Schleusner*, **Mitchell, Z.A. (faculty PI)**. June 2022. *Effects of turbidity on fish behavior and community structure in New Mexico Rivers*. New Mexico Water Resource

Research Institute, Student Research Grant Program (NMWRRI-SG- 2022). Amount awarded: $7,470.24.

Mitchell, Z.A. (PI). May 2022. *Examining drivers of aquatic ecosystem structure in a disturbance prone river*. ENMU Faculty Research and Instructional Development Program. Amount awarded: $4,991.00.

VIII. Pending Research Grants (*in review*)

IX. Current Graduate Students

Zoe Mabry. 2025-Current. TAMUK. *Thesis Topic*: Predicting Drought Impacts on South Texas Crayfish Using Field Surveys, Mesocosm Experiments, and Ecological Niche Models.

Tyler Bulot. 2026-Current. TAMUK. *Thesis Topic:* Population Dynamics of At-Risk Texas Crayfish Using Mark–Recapture.

Robin Loessin. 2026-Current. TAMUK. *Thesis Topic:* Southern Flounder Larval Recruitment in Texas Estuaries.

Mary Tingle. 2026-Current. TAMUK. *Thesis Topic:* Habitat Associations and Hydrologic Drivers of Recruitment in Texas *Dionda* Species.

X. Previous Graduate Students

Nichole Webb. 2022-2025. ENMU. *Thesis*: Warming waters, rising risks: Unraveling thermal tolerance of freshwater fish in the southwestern USA.

Ashlyn Reynolds. Advised from 2023-2025. ENMU. *Thesis:* Does beaver presence increase wildfire resistance of streams in New Mexico?

Brittany Pulcini. 2022-2024. ENMU. *Non-Thesis Research Project*: Influence of seasonality on the relative importance of abiotic and biotic factors in determining fish survival in isolated pools in New Mexico rivers.

Ryan Sheppard-Peery. 2022-2024. ENMU. *Non-Thesis Research Project*: Examining drivers of riverine fish communities in New Mexico.

XI. Graduate Student Committees

Jodie Montgomery.2024-2026. (M.S. directed by Dr. Corey Green, ENMU)
Matilda Kaabo. 2023-2024. (M.S. directed by Dr. Mhahabubur Rhaman, ENMU)
Stephen Murphy. 2021-2025. (M.S.directed by Dr. Darren Pollock, ENMU)
Margaret Bass. 2021-2023. (M.S.directed by Dr. Kenwyn Cradock, ENMU)
Cecilia Torres. 2021-2023. (M.S.directed by Dr. Kenwyn Cradock, ENMU)

XII. Undergraduate Students Mentored

Texas A&M University-Kingsville
Brooklyn Nylander. 2026. *Project*: South Texas crayfish distribution and habitat use
Aubry Reyes. 2026. *Project*: South Texas crayfish distribution and habitat use

Logan Liesman. 2025. *Project*: Assessing Spatiotemporal Variation in Fish Communities Across South Texas Coastal Watersheds

Eastern New Mexico University

Jodie Montgomery. 2022- December 2023. *Project*: Effects of catastrophic wildfire on stream macroinvertebrate communities in northern New Mexico.

Ashlyn Reynolds. 2022-2023. *Project*: Toxicity of fire retardant in pulsed exposures to Rio Grande Cutthroat Trout under varying temperatures.

Justin Schleusner. 2022- January 2023. *Project*: Effects of turbidity on fish behavior and community structure in New Mexico rivers.

Zane Seidel. 2022-May 2023. *Project*: Examining drivers of aquatic ecosystem structure in a disturbance prone river.

Li Zheng. 2022-September 2023. *Project*: Examining drivers of aquatic ecosystem structure in a disturbance prone river.

Texas State University

Joshua Robledo, 2018. *Project*: Using life history strategies to predict the distribution of freshwater mussels within the San Saba River, TX.

Natalia Montero. 2017. *Project*: Effects of temperature on burrowing behavior of freshwater mussels.

XIII. Oral Presentations (student author: *undergraduate, ^ graduate)

Mitchell, Z.A. Patterns of temporal change in North American stream fish assemblages. Southern Division of the American Fisheries Society. March 2026. **Regional**

Mitchell, Z.A. Exploring Temporal Trajectories of Stream Fish Communities Across North America. Texas Chapter of the American Fisheries Society. January 2026. **State**

Mitchell, Z.A., Schwalb, A. Scale invariant patterns of life history strategies of riverine mussels are shaped by hydrologic factors. Texas Chapter of the American Fisheries Society. January 2026. **State**

Mitchell, Z.A. Stranded and Stressed: Seasonal Drivers of Fish Survival in Isolated River Pools. Society of Freshwater Science 2025 Annual Meeting. May 2025. **International**

Schwalb, A, **Mitchell, Z.A.**, Cushway, K., Harris, A. Distribution patterns of mussels in relation to flow: An exploration across spatial scales**.** Society of Freshwater Science 2025 Annual Meeting. May 2025. **International**

Sheppard-Peery, R.^, **Mitchell, Z.A.** Unraveling the impact of dams on hydrology and fish community structure in the Pecos River mainstem. Student Research and

Creativity Conference. April 2024. **University**

Webb, N.^, **Mitchell, Z.A.** Evaluating the upper thermal tolerance of the Rio Grande Chub (*Gila pandora*). Student Research and Creativity Conference. April 2024. **University**

Pulcini, B.^, **Mitchell, Z.A.** Influence of seasonality on the relative importance of abiotic and biotic factors in determining fish survival in isolated pools in New Mexico. Student Research and Creativity Conference. April 2024. **University**

Mitchell, Z.A. Drying Rivers: responses of fish in isolated pools during reduced stream flow. Eastern New Mexico Faculty Lectureship. October 2023. **University**

Mitchell, Z.A. Responses of riverine biota in isolated pools during reduced stream flow. 2023 American Fisheries Society Annual Meeting. August 2023. **National**

Schwalb, A.N., Cushway, K.C., **Mitchell, Z.A.**, Martinski, M.E., Hayes, K., Cottenie, K., Perkin, J.S., Perez Rocha, M. Gaining insights on responses of freshwater mussels to environmental heterogeneity and on their distribution. 2023 Freshwater Mollusk Conservation Society Symposium. April 2023. **National**

Cushway, K.C., Harris, A.E., Piercy, C.D., **Mitchell, Z.A.**, Schwalb, A.N. Holding their ground: impacts of high and low flows on freshwater mussel assemblages and distribution. 2023 Freshwater Mollusk Conservation Society Symposium. April 2023. **National**

Mitchell, Z.A. Trait-based and multi-scale approach provides insight on responses of freshwater mussels to environmental heterogeneity. Eastern New Mexico Faculty Lectureship. March 2023. **University**

Schwalb A., Burlakova, L. E., Ford, D., Geist, J., Karatayev, A. Y., **Mitchell Z.A.**, Tarter A. Assessing the effects of extreme climatic events on unionid mussels. Freshwater Mollusk Conservation Society Survey guidelines and techniques workshop. August 2022. **National**

Rocha M., Cottenie K., Elkins K., Kline C., Mangold R., **Mitchell Z.A.**, Nowlin W., Perkin J., Schwalb A. Differential responses of riverine communities to environmental heterogeneity: a comparison between different groups of organisms and across different spatial scales. Joint Aquatic Sciences Meeting. May 2022. **National**

Mitchell Z.A., Schwalb, A. Combining taxonomic and functional approaches to examine how riverine communities respond to environmental heterogeneity at different scales: a freshwater mussel case study**.** Society of Freshwater Science Annual Meeting. May 2021. **National**

Mitchell Z.A., Schwalb, A. Comparing convenience and probability sampling designs for

describing riverine mussel communities**.** Freshwater Mollusk Conservation Society Virtual Symposium. April 2021. **National**

Mitchell Z.A., McGuire J, Abel J, Hernandez B, Schwalb A. Move on or take the heat**.** 19th Biennial Freshwater Mollusk Conservation Society Symposium, San Antonio, TX. April 2019. **National**

Mitchell Z.A., Burlakova, L.E., Schwalb A.N. Impacts of severe drought on freshwater mussels in Central Texas. 65th Annual Meeting of the Southwestern Association of Naturalists, San Marcos, TX. April 2018. **Regional**

Hine E.C., Moody-Carpenter C., **Mitchell Z.A.**, Colombo R.E. A diel comparison of pulsed DC electrofishing methods in the lower Wabash River. 147th Annual Meeting of the American Fisheries Society, Tampa, FL. August 2017. **National**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Population status and potential impacts of harvest regulations on three exploited species of Catfish in the Wabash River, IL. 54th Annual meeting of the Illinois American Fisheries Society, Springfield, IL. February 2016. **State**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Demographics and harvest of three commercially exploited species of Catfish in a large Midwestern River. 76th Midwest Fish & Wildlife Conference, Grand Rapids, MI. January 2016. **Regional**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Seasonal effects of DC pulse frequency on collection of fish in the Wabash River, IL. 145th Annual Meeting of the American Fisheries Society, Portland, Oregon. August 2015. **National**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Fish assemblages within the Wabash River, IL. 53rd Annual meeting of the Illinois American Fisheries Society, Grafton, IL. March 2015. **State**

XIV. Poster Presentations (student author: *undergraduate, ^ graduate)

Mabry, Z.^, McGovern, J. ^, Sweeten, L. ^, Donkor, M. ^, Green, C. ^, Thompson, C. ^, Watson, E. ^, **Mitchell, Z.A.** Functional Community Resilience to Extreme Weather Events Using a Long-term Dataset. Texas Chapter of the Wildlife Society. February 2026. **State**

Mabry, Z.^, **Mitchell, Z.A.** Drought impact assessment on freshwater communities: responses of South Texas crayfish. Texas Chapter of the Wildlife Society. February 2026. **State**

Liesman, L.*, **Mitchell, Z.A.** Historical fish assemblages and resampling priorities in

south Texas. Texas Chapter of the Wildlife Society. February 2026. **State**

Mabry, Z.^, **Mitchell, Z.A.** Drought impact assessment on freshwater communities: responses of South Texas crayfish. Texas Chapter of the American Fisheries Society. January 2026. **State**

Mabry, Z.^, McGovern, J. ^, Sweeten, L. ^, Donkor, M. ^, Green, C. ^, Thompson, C. ^, Watson, E. ^, **Mitchell, Z.A.** Functional Community Resilience to Extreme Weather Events Using a Long-term Dataset. Texas Chapter of the American Fisheries Society. January 2026. **State**

Mitchell, Z.A. Assessing Distribution, Habitat Use, and Environmental Tolerances of Data-Deficient Texas Crayfish. 155th Annual Meeting of the American Fisheries Society, San Antonio, TX. August 2025. **National**

Montgomery, J., Green, C., and **Mitchell, Z.A.** Assessing the Impact of Severe Wildfires on Stream Macroinvertebrate Communities: Evaluating Beaver Ponds as a Natural Mitigation Strategy in Northern New Mexico. 45th Annual Society of Environmental Toxicology and Chemistry. October 2024. **National**

Salazar, A.*, Lucero, A.*, **Mitchell, Z.A.** Temporal dynamics of riverine catfish in the Wabash River, Illinois. Student Research and Creativity Conference. April 2024. **University**

Reynolds, A.^, **Mitchell, Z.A.** Does beaver presence increase wildfire resistance of streams in New Mexico? Student Research and Creativity Conference. April 2024. **University**

Montgomery, J.*, **Mitchell Z.A.** Effects of catastrophic wildfire on stream macroinvertebrate communities in northern New Mexico. 68th Annual New Mexico Water Conference. November 2023. **State**

Reynolds, A.^, **Mitchell Z.A.** Does beaver presence increase wildfire resistance of streams in New Mexico? 68th Annual New Mexico Water Conference. November 2023. **State**

Pulcini, B.^, **Mitchell Z.A.** Influence of seasonality on the relative importance of abiotic and biotic factors in determining *Cyprinella lutrensis* survival in isolated pools in the Pecos River. 68th Annual New Mexico Water Conference. November 2023. **State**

Mitchell, Z.A., Cradock, K. Improving Data Literacy in Undergraduate Ecology Education. Annual Meeting of the Ecological Society of America. August 2023. **National**

Pulcini, B.^, **Mitchell Z.A.** Influence of Seasonality on the Relative Importance of Abiotic and Biotic Factors in Determining Fish Survival in Isolated Pools in NM Rivers. ENMU Student Research and Creativity Conference. April 2023.

University

Webb, N.^, **Mitchell Z.A.** Evaluating the Upper Thermal Tolerance of the Rio Grande Chub (*Gila pandora*). ENMU Student Research and Creativity Conference. April 2023. **University *(Best Student Poster Award)***

Sheppard-Peery, R.^, **Mitchell Z.A.** Trait-Environment Relationships in Stream Fish Assemblages in The Pecos River Basin. ENMU Student Research and Creativity Conference. April 2023. **University**

Montgomery J.*, **Mitchell Z.A.** Effects of Catastrophic Wildfire on Stream Macroinvertebrate Communities in Northern NM. ENMU Student Research and Creativity Conference. April 2023. **University**

Reynolds A.*, **Mitchell Z.A.** Toxicity of fire retardant in pulsed exposures to Rio Grande Cutthroat Trout under varying temperatures. ENMU Student Research and Creativity Conference. April 2023. **University**

Reynolds A.*, **Mitchell Z.A.** Toxicity of fire retardant in pulsed exposures to Rio Grande Cutthroat Trout under varying temperatures. 56th Joint Annual Meeting of the Arizona-New Mexico Chapter of the American Fisheries Society. February 2023. **State**

Mitchell, Z.A., Cradock, K. Improving Data Literacy in Undergraduate Biology Education. New Mexico Higher Education Assessment and Retention Conference. February 2023. **State**

Schleusner, J.*, **Mitchell Z.A.** Effects of turbidity on fish behavior and community structure in New Mexico Rivers. 67th Annual New Mexico Water Conference. October 2022. **State**

Hayes K.J., **Mitchell Z.A.**, Schwalb A.N. Growth and age structure estimates for mussel populations in central Texas. 19th Biennial Freshwater Mollusk Conservation Society Symposium, San Antonio, TX. April 2019. **National**

Robeldo J.T., **Mitchell Z.A.**, Schwalb A.N. Distribution of mussels can be explained with life history strategies in the San Saba River. Undergraduate research symposium, San Marcos, TX. August 2018. **University**

Mitchell, Z.A., Burlakova L.E., Schwalb A.N. Response of freshwater mussels to drought in central Texas. 147th Annual Meeting of the American Fisheries Society, Tampa, FL. August 2017. **National**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Effects of DC Electrofishing pulse frequency on collection of fish in the Wabash River**,** IL. Graduate Expo Research Exhibit, Charleston, IL. April 2015. **University**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Standardized sampling protocols for fish communities in the Wabash River**,** IL. 75th Midwest Fish & Wildlife Conference, Indianapolis, IN. February 2015. **Regional**

Mitchell Z.A., Moody-Carpenter C., Frankland L.D., Bollinger E.K., Colombo R.E. Effects of gear type on collection of Catfish in the Wabash River**,** IL. 144th Annual Meeting of the American Fisheries Society, Quebec City, Quebec. August 2014. **National**

Mitchell Z. A., DeVries R. J., Allen P. J. Salinity effects on Atlantic sturgeon growth and osmoregulation. Undergraduate research symposium, Mississippi State University, Starkville, MS. March 2014. **University**

XV. Service

Professional

- Session Moderator and Student Presentation Judge, Annual Meeting Texas Chapter of the American Fisheries Society, January 2026.
- Review Editor for Frontiers in Mollusk Science: Ecology, Biogeography and Conservation section (2023-2024)
- AZ/NM American Fisheries Society Newsletter Committee Chair (2023- 2024)
- New Mexico Alliance for Minority Participation Faculty Member (2023- 2024)
- Manuscript Reviewer: *Ecology, Biological Reviews, Scientific Reports, River Research and Applications, Aquatic Conservation: Marine and Freshwater Ecosystem, Life: The Excitement of Biology*

Academic

- Biology Hiring Committee Chair (TAMUK, Spring 2026)
- General Education Assessment Reviewer (Spring 2026)
- Biology Curriculum Committee (TAMUK, 2025-present)
- Faculty Advisory Council Member (TAMUK, 2025-present)
- Faculty advisor to the TAMUK Fishing Club (TAMUK, 2024-present)
- Animal Resources Team member (TAMUK, 2024-present)
- Faculty Senate Members (ENMU, Spring 2025)
- Director of the Gennaro Natural History Museum Live Exhibit (ENMU, 2022-2024)
- Curator of fish at the Gennaro Natural History Museum (ENMU, 2022-2024)
- Institutional Animal Care and Use Committee (ENMU, 2023-2024)
- Department of Biology Website Coordinator (ENMU, 2022-2024)
- University Museums and Gallery Advisory Committee (ENMU, 2023-2024)

- CLAS Recruitment and Retention Committee (ENMU, Fall 2022-2024)
- Arc GIS license manager for ENMU (Fall 2022)
- Departmental search committee member (ENMU, Spring 2022, Fall 2022, Spring 2023, Spring 2024)
- College grade review committee member (Spring 2022)
- Student Research and Creativity Conference, judge (Spring 2022, 2023)
- ENMU Scholarship Committee member (Spring 2022, 2024)

Community

- Science Fair Judge. 2025 Texas A&M University-Corpus Christi Coastal Bend Regional Science Fair. (Feb. 2025)
- Friends of Oasis, volunteer cleaner, Oasis State Park, Portales, NM (2022- 2024)

XVI. Professional Societies

Memberships

- American Fisheries Society, 2011- present
- Texas Chapter of the American Fisheries Society, 2024 - present
- Society of Freshwater Science, 2016 – present
- Texas Academy of Science, 2025 - present
- Southwestern Naturalist Association 2025 - present
- Ecological Society of America, 2019-2024
- AZ/NM Chapter American Fisheries Society, 2022-2024
- Freshwater Mollusk Conservation Society, 2018-2022
- Illinois Chapter American Fisheries Society, 2014- 2016
- Mississippi Chapter American Fisheries Society, 2012- 2016

Offices Held

- President, Biological Sciences Graduate Student Association. EIU. 2015-2016

XVII. Awards, Scholarships, and Honors

- Early Career Researcher Faculty Award (University, TAMUK, $2,000.00)
- COAS Faculty Travel Award 2026 (University, TAMUK, $1,985.00)
- Glen Longley/San Marcos Lions Club Scholarship 2019 (University, TXST, $2,000)
- Departmental Travel Award 2019 (University, TXST, $400)
- Fred and Yetta Richan Aquatic Biology Award 2017 (University, TXST, $2,000)
- Departmental Travel Award 2017 (University, TXST, $475)
- Williams Travel Award 2016 (University, EIU, $500)

- Graduate Student Investigator Award 2015-2016 (University, EIU)
- Williams Travel Award 2015 (University, EIU, $400)
- Research and Creative Activities Grant 2015 (University, EIU, $700)
- COS Travel Award, EIU College of Sciences 2015 (National, $350)
- Award of Excellence, EIU Graduate School 2015 (University)
- Illinois American Fisheries Society Travel Grant 2015 (State, $100)
- Joan Duffy Travel Award 2015 (Regional, $400)
- Williams Travel Award 2014 (University, EIU, $300)
- Scholar Award, EIU BSGSA (University, EIU, $500)
- Deans Scholar, MSU 2012/2014 (University)
- Presidents Scholar, MSU 2013 (University)