

Zachary Tipton

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Education

Master of Science in Economic Analytics May 2026

University of Arkansas, Fayetteville, AR

Capstone: Spatial Matching: Convolutional Neural Networks for Causal Evaluation of Wildlife Crossing Structures in Colorado

Advisor: Dr. Jung Hyunseok

Master of Science in Biology December 2023

University of Arkansas, Fayetteville, AR

Thesis: Patterns in Winter Stonefly Distribution Along a River Continuum and Land-Use Gradient in Northwest Arkansas Streams

Mentor: Dr. Michelle Evans-White

B.S.A., Environmental, Soil and Water Science May 2018

Minors: Chinese with a Business Orientation; Statistics

University of Arkansas, Fayetteville, AR

Honors: Honors with Distinction - cum laude

Honors thesis: Soil Organic Carbon and Mineralization Rates at the Woolsey Wet Prairie Mitigation Site in Fayetteville, Arkansas

Mentors: Dr. Lisa Wood and Dr. Mary Savin

Teaching Experience

University of Arkansas, Fayetteville, AR January 2019 – December 2022

Biological Sciences

Teaching Assistant

Course	Student Eval (out of 5)	Term
BIOL 2211L Human Physiology Lab	4.96	Spring 2019
BIOL 2211L Human Physiology Lab	5.00	Fall 2019
BIOL 2211L Human Physiology Lab	4.97	Spring 2020
BIOL 2211L Human Physiology Lab	4.75	Fall 2020
BIOL 2211L Human Physiology Lab	4.64	Spring 2021
BIOL 2211L Human Physiology Lab	4.76	Fall 2021
BIOL 2211L Human Physiology Lab	4.90	Spring 2022
BIOL 2211L Human Physiology Lab	4.85	Spring 2023
BIOL 2211L Human Physiology Lab	4.89	Fall 2023

Ozark Natural Science Center, Huntsville, AR
Teacher Naturalist

August 2023 – May 2025

Course
Art & Nature
Creek Critters
Decomposition
Earth's Greenhouse Gases
General Ecology
Geology
Herpetology
Mammalogy
Mindfulness in Nature
Ornithology
Ozark Forests
Water Quality
Watersheds & Water Pollution

Relevant Work Experience

University of Arkansas, Fayetteville, AR
Writing Studio
Graduate Assistant – Marketing and Outreach

May 2025 – May 2026

University of Arkansas, Fayetteville, AR
Information Technology Services
Evening Supervisor

June 2014 – January 2019

Publications

Tipton, Z. (2023). Patterns in Winter Stonefly Distribution Along a River Continuum and Land-Use Gradient in Northwest Arkansas Streams. Graduate Theses and Dissertations
Retrieved from <https://scholarworks.uark.edu/etd/5103>

Feng, T., **Tipton, Z.**, Xia, L., Chang, Y. (2019). Evaluation of CORDEX regional climate models in simulating extreme dry spells in Southwest China. *Frontiers in Earth Science*, 7(294). Doi: 10.3389/feart.2019.00294

Tipton, Z., Wood, L.S., Savin, M., Runkle, B.R. (2018). Soil organic carbon and mineralization rates at the Woolsey Wet Prairie Mitigation site in Fayetteville, Arkansas. *Discovery: The Student Journal of Dale Bumpers College of Agriculture, Food and Life Sciences*, 19(1), 71-80. Undergraduate honors thesis.

Conference Presentations

Society for Freshwater Science, Grand Rapids, MI

Tipton, Z., Annaratone, B., Larson, C., Magoulick, D., Dowling, A., Prater, C., and M. Evans-White. 2022. Patterns in Winter Stonefly Species with Urbanization in Deciduous-forested Ozark Streams.

Society for Freshwater Science, Salt Lake City, UT

Tipton, Z., Evans-White, M., Entekin, S., Austin, B., Baker, L., Verkamp, H., Dias, S., Clay, N., and A. Mogilevski. 2019. Stream algal responses to natural gas activity in an agricultural landscape in Arkansas.

ASA, CSSA, and SSSA – Managing Global Resources for a Secure Future, Tampa, FL

Tipton, Z., Wood, L. S., Savin, M., and B. R. Runkle. 2017. Soil Organic Carbon and Mineralization Rates at the Woolsey Wet Prairie.

Scholarships and Funding

Distinguished Doctoral Fellowship

Arkansas Environmental Federation – Randy Thurman Scholarship

C. Roy Adair Agronomy Scholarship Fund

Joe M. Steele & Hardy W. Croxton Memorial Scholarship

University of Arkansas Bumpers College General Scholarship

University of Arkansas Honors College Travel Grant

University of Arkansas Staff Senate Scholarship

White River EPA Scholarship

Agriculture, Food, and Life Science International Scholarship

University of Arkansas Honors College International Programs Office Scholarship

Arkansas Division of Higher Education Regional Workforce Grant

Agricultural, Food, and Life Science International Scholarship

Federal Supplemental Educational Opportunity Grant

Mechanical Engineering Department Scholarship

Global Experience

Princeton in Beijing

June 2017 – August 2017

European Agriculture-Food Chain Sustainability

May 2016

Taiwan USA Ambassador Scholarship Program

June 2015 – August 2015

Certifications

Google Project Management Professional Certificate, Coursera

January 2025

Leadership Experience

Society for Freshwater Science Undergraduate Awards Committee Member
University of Arkansas International Programs Office Mentor
University of Arkansas Chinese Language and Culture Club Officer

Professional Associations

Alpha Alpha Alpha: Academic excellence of first-generation college students
Arkansas Master Naturalists
Omicron Delta Epsilon: Economic Honor Society
Sigma Xi: The Scientific Research Honor Society
Society for Freshwater Science

Volunteer Experience

Arkansas Game and Fish Commission
Beaver Watershed Alliance
City of Fayetteville Parks and Recreation
Habitat for Humanity
Illinois River Watershed Partnership
Lake Fayetteville Watershed Partnership
Ozark Natural Science Center
University of Arkansas Spring International Language Center

Professional References

Professional references available upon request.