Zachary Tipton

1169 S. Ivory Bill Ln ● Fayetteville, AR 72701 ● (479) 276-0195
zacharytipton@gmail.com ● linkedin.com/in/ztipton

Education

Master of Science in Economic Analytics

University of Arkansas – Fayetteville | May 2025 – Expected May 2026
Omicron Delta Epsilon Economics Honor Society | Tri-Alpha Honor Society

- Developing expertise in economic modeling, econometrics, and machine learning for data-driven decision-making
- Training in advanced statistical methods, casual inference, and computational tools for public and private sector analyses

Master of Science in Biology

University of Arkansas – Fayetteville | January 2019 – December 2023
Thesis: *Patterns in Winter Stonefly Distribution Along a River Continuum and Land Use Gradient in Northwest Arkansas Streams*
Advisor Committee: *Dr. Michelle Evans-White, Dr. Daniel Magoulick, Dr. Kusum Naithani, Dr. Mary Savin*

- Awarded the Distinguished Doctoral Fellowship totaling $88,000 over four years
- Presented original research at professional conferences, including SFS 2019 (poster) and JASM 2022 (oral)
- Skilled in applying statistical analysis to biological and environmental datasets
- Conducted independent field research and macroinvertebrate sampling across varied stream environments

Bachelor of Science in Environmental, Soil and Water Science

University of Arkansas – Fayetteville | August 2011 – December 2018
Minors: Chinese, Statistics | GPA: 3.59/4.0 *cum laude*
Honors Thesis: *Soil organic carbon and mineralization rates at the Woolsey Wet Prairie Mitigation site in Fayetteville, Arkansas*
Advisors: *Dr. Lisa Wood, Dr. Mary Savin, Dr. Benjamin Runkle*

- Awarded $14,550 in scholarships and grants
- Delivered an oral research presentation at the 2017 ASA, CSSA, SSSA international conference
- Completed studied abroad programs in Ghent, Belgium; Beijing, China; and Tainan, Taiwan

Employment

Graduate Assistant – Division of Academic Affairs

University of Arkansas – Fayetteville | May 2025 – Present

- Lead marketing and outreach initiatives to promote Writing Studio services across campus
- Cultivate partnerships with academic departments and student organizations to expand Studio visibility
- Design and deliver in-person and virtual workshops on writing strategies and available support services
- Plan and execute student-focused events to increase engagement with Writing Studio resources

Teacher Naturalist

Ozark Natural Science Center | May 2023 – May 2025

- Fostered student understanding, appreciation, and stewardship of the Ozark natural environment
- Organized and led immersive wilderness education programs in the Ozarks
- Delivered nature-based instruction through interpretive hikes and classroom sessions for students of all ages
- Maintained a safe, supportive environment by prioritizing the physical and emotional well-being of students and guests

---

Teaching Assistant – Department of Biological Sciences
University of Arkansas – Fayetteville | January 2019 – December 2023

- Guided the next generation of health professionals in Human Physiology Lab
- Created lab content presentations and was regularly praised by students for explaining difficult material clearly
- Maintained lab environmental and health safety standards for nearly 400 students with zero incidents
- Ranked in the top 10% of departmental instructors based on student evaluations across eight semesters

Service Assistant I – Information Technology Services
University of Arkansas – Fayetteville | 2007 – 2019

- Delivered front-line technical support and excellent customer service for hardware and software issues
- Promoted to full-time supervisor in 2014 in recognition of performance and leadership
- Oversaw operations for six computer labs, managing over $250,000 worth of equipment
- Developed lab policies, created schedules, and recruited and trained ~ 30 employees per semester

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. Master's thesis.

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.

Additional Contributions:
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. Assisted with manuscript editing and writing revision.

Relevant Skills & Tools

Data Analysis: Python, R, Stata, SQL | *Data Visualization:* Excel, ggplot2, Power BI, Tableau
Research | Professional Writing & Public Speaking

Certifications

Google Project Management Professional Certificate, Coursera — January 2025
Completed a comprehensive 7-course program developed by Google, including hands-on, practice-based assessments. Trained to initiate, plan, and manage traditional and Agile projects, preparing for entry-level project management roles.

Relevant Classwork

Biology: Biometry; Community Ecology; Global Biogeochemistry; Landscape Ecology; Stream Ecology
Economic Analytics: Applied Microeconomics; Applied Microeconometrics; Business and the Environment; Data Analytics Fundamentals; Data Exploration and Communication for Economics; Economic Analytics I-II; Forecasting

Volunteer Organizations

Arkansas Master Naturalists; Beaver Watershed Alliance; City of Fayetteville (AR) Parks and Recreation; Illinois River Watershed Partnership; Society for Freshwater Science; University of Arkansas International Students & Scholars