

Beth Adler

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EDUCATION

Bachelor of Arts in Biology, Emphasis in Biodiversity [GPA 3.41]

May 2025

Webster University, St. Louis, MO

Thesis: *Monitoring Grassland Avian Populations in the Mississippi Flyway*

HONORS

Dean's List

Spring 2021

Webster University

Spring 2023

Awarded to Students with a Semester GPA ≥ 3.80

Fall 2024

RESEARCH EXPERIENCE

Bee Field Guide Project – Independent Research

2024 - Present

- Combine illustration and research to characterize bee anatomy, diversity, and ecological niches.
- Advised by faculty mentor specializing in plant-pollinator interactions.
- Produce materials for a humorous, scientifically grounded field guide; grant proposal submitted.

Monitoring Grassland Avian Populations in the Mississippi Flyway - Thesis

2024

- Accompanied point-count surveys conducted by USACE biologists in wetland habitats near Mississippi River, assisted field data collection.
- Analyzed multi-year avian observational data in R, calculating alpha and beta diversities, differential abundance analyses, and creating Uniform Manifold Approximation Projections (UMAPs) to compare variables of diversity across habitat sites.
- Delivered a scientific paper discussing independent findings and a 30-minute presentation to department faculty.

CONFERENCE PRESENTATIONS

“Learning Science through a Creative Communication Project” Poster Talk

Botanical Society of America conference, Grand Rapids, MI

2024

Research Across Disciplines symposium, Webster Groves, MO

2024

PROFESSIONAL EXPERIENCE

Forest Pest Surveyor, Spongy Moth

2025

Missouri Department of Conservation, St. Louis, MO

- Monitored for invasive spongy moths through independent placement and retrieval of >350 pheromone traps, using a GIS grid system to appropriately cover St. Louis County and neighboring areas as needed.
- Communicated with private landowners to request access and represent the agency professionally in public settings.
- Contributed to conservation efforts in other departments involving habitat maintenance, Lindgren trap monitoring, and public outreach.

Ski Instructor

2024 - Present

Snowshoe Mountain, Snowshoe, WV

- Teach skiing techniques to groups of children aged 4-12, ranging from beginner to advanced, emphasizing safety and fun in hazardous winter environments.
- Effectively communicate to instruct, motivate, and manage groups in dynamic outdoor settings for several hours at a time.

Canoe / Trail building Guide and Winter Camping Interpreter

2022 – 2024

Northern Tier High Adventure, Ely, MN

- Led service-based, multi-week canoe expeditions for participants aged 16-20, teaching outdoor skills including portaging, navigation, and backcountry ethics.
- Oversaw trail building projects with guidance from USFS. Gave instructions for proper use of tools necessary to complete efforts.
- Guided multi-day winter treks which involved safely camping on frozen lakes and various cold-weather skills.

Wilderness Trail Crew

2022

Wisconsin Conservation Corps, Isle Royale National Park, MI

- Used hand tools to build and maintain trails alongside National Park Service staff in a remote island wilderness area.
- Lived and worked in a tight-knit backcountry crew to complete conservation projects that support public land recreation and management.

UNIVERSITY SERVICE

Swim Instructor / Lifeguard

2022 – 2024

Webster University Pool

- Taught individual and group swimming lessons for children ages 4–12 in the local community, providing age-appropriate instruction and fostering water safety skills.
- Assisted with community aquatic programs, ensuring safety and accessibility for patrons.