

Hannah A. Adams

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EDUCATION

Master of Science Wildlife, Aquatic, and Wildlands Science and Management,

EXPECTED August 2027

Texas Tech University, Lubbock, TX

Bachelor of Science Natural Resources Management,

Concentration in Wildlife Biology, May 2025

Texas Tech University, Lubbock, TX

High School Diploma, May 2021

Leander High School, Leander, TX

PROFESSIONAL PROFILE

I am a current Graduate Research Assistant at Texas Tech University with hands-on experience in field data collection and laboratory data analysis, focused on wildlife and fisheries. I am currently conducting a research project examining the body condition of Rio Grande cutthroat trout and their interactions with Brown trout in allopatric and sympatric alpine stream systems. As well as assisting on a drought tolerance project as a field technician with the Texas Cooperative Research Unit. I am eager to apply and expand my wildlife biology, fisheries management, and aquatic ecology skills in a professional setting. I'm motivated to contribute to conservation-focused, data-driven projects that support ecosystem health and species sustainability.

FIELD EXPERIENCE

Freshwater Field Technician - Drought Tolerance

May 2025 - August 2025

USGS Texas Cooperative Fish and Wildlife Research Unit

- Chemical analysis of rivers
- Backpack electrofishing
- Seining
- Fyke net deployment
- Gill net deployment
- Collected fish samples (weight, length)
- Practiced fish identification
- River ecology/habitat data collection (canopy, sediment, flow)

Undergraduate Assistant Researcher - Alpine Stream Sampling June 2024 - August 2025

Texas Tech University System

- Chemical analysis of stream systems
- Backpack electrofishing
- PIT tagged
- Collected fish samples (weight, length, fin clips)
- Gastric lavage
- Practiced fish and aquatic insect identification

TPWD Volunteer

August 2024

Texas Parks & Wildlife Department - Coastal Fisheries

- Practiced boat safety
- Practiced coastal fish and aquatic plant identification
- Used bag seines

Undergraduate Assistant Researcher - Small Mammal Sampling

May 2024

Texas Tech University System

- Collected small mammals with a multitude of trapping techniques
- Eye-bled small mammals
- Practiced worldwide mammal identification
- Collected organ samples from mammals
- Prepped mammals for the TTU Natural Science Resource Laboratory

Undergraduate Assistant Researcher - Avian Surveying

April 2024

Texas Tech University System

- Ran bird point count surveys
- Ran bird area count surveys
- Practiced local bird identification
- Calculated bird occurrence
- Calculated nestling success rates

Undergraduate Assistant Researcher - Cotton Rat Sampling

September 2023

Texas Tech University System

- Set out a multitude of Sherman traps
- Collected live specimens

- Practiced identification among live specimens
- Learned how to handle live rat and mouse specimens

Undergraduate Assistant Researcher - River Sampling

June 2023

Texas Tech University System

- Ran multiple electrofishing transects
- Used gillnets with and without electrofishing techniques
- Collected chlorophyll samples
- Collected water data (turbidity, temperature, conductivity)
- Collected fish samples (weight, length, species, fin clips, otoliths)
- Identified East Texas freshwater fish

Teaching Assistant - Fish & Fishing Techniques Educator

November 2022

Texas Tech University System

- Helped with fish seining lab
- Taught Simpson's Diversity Index
- Helped with crowd control and managing the students
- Ensured student safety with night checks and often cleanings

American Fisheries Society Research Outing

November 2022

Texas Tech AFS Student Subunit

- Learned electrofishing techniques
- Collected sample data (weight, length, species)
- Practiced West Texas Fish Identification

Undergraduate Assistant Researcher - Plant Sampling

July 2022

Texas Tech University System

- Ran 3 50-meter transects in over 50 plots of land
- Worked with chemical and burning procedures among invasive plants
- Worked with invasive insects
- Identified Houston Native plants every meter of each transect

ORGANIZATIONS

Texas Tech Student Subunit of the American Fisheries Society

March 2022 - Present

- Attended the Texas Chapter of the American Fisheries Society Annual Meeting
- Presented research at multiple poster presentation events
- Learned professional development techniques to become a valuable professional

- Met with a multitude of professionals to network
- Participated in social events
- Organized collab outings with other university AFS subunits
- Organized events to give other students hands-on experience
- Participated in outreach events & community volunteer events

Texas Tech University Wildlife Society

August 2021 - January 2022

- Attended meetings led by professionals in the field
- Participated in social events

AWARDS & HONORS

- TTU Natural Resources Management Research Day
Best Undergraduate Poster - 1st Place

April 2025

- Texas Chapter - American Fisheries Society
David Terre Student Scholarship recipient

January 2025

- Texas Tech Student Subunit of the American Fisheries Society
Officer - President (Elected Position)

April 2024 - Present

- Texas Tech Student Subunit of the American Fisheries Society
Officer - Treasurer (Elected Position)

November 2023 - April 2024

- Deans List

Spring 2025

- Deans List

Fall 2024

- Deans List

Spring 2024

- Deans List

Fall 2021

CERTIFICATIONS

- Adult First Aid/CPR/AED - American Red Cross
- Defensive Driving Training - Department of the Interior
- Refresher Defensive Driving - USGS
- Cold Stress Training - USGS
- Heat Stress Training - USGS
- Principles and Techniques of Electrofishing - Department of the Interior & USFWS

SKILLS

- ArcGIS Pro
- R
- Gill net usage
- Seine net usage
- Mist net usage
- Electrofishing (backpack and boat)
- Fishing and hunting experience
- Basic vehicle maintenance
- Back-up and pull trailers
- Point count survey
- Data Interpretation
- Microsoft and Google software knowledge
- Statistical Analysis
- Small mammal scientific prepping
- Watershed management knowledge
- Soil Sampling
- Aquatic macroinvertebrate sampling
- Avian, fish, plant, mammal identification
- Wildlife taxonomy, anatomy, and physiology knowledge
- Written communication
- Public Speaking
- Work in harsh weather
- Dissection skills
- Wildlife trapping techniques
- PIT tagging
- Wildlife survey skills
- Deer aging
- Waterfowl sexing
- Lavaging
- River/stream ecology (testing DO, salinity, water quality, turbidity, canopy coverage)

JOB EXPERIENCE

Texas Cooperative Fish and Wildlife Research Unit

May 2025 - August 2025

- Performed fieldwork and collected data
- Entered data
- Fish and aquatic surveys
- Chemical analysis of rivers
- Followed USGS protocol
- Assisted on all aspects of the current research project

Collins Aquatic Ecology Lab - Texas Tech University

June 2024 - August 2025

- Performed fieldwork and collected data
- Entered data
- Weighed samples
- Chemical analysis of streams
- Stream ecology surveys
- Fish and aquatic insect ID
- Practice lab safety

Caprock Cafe

August 2022 - July 2025

- Team trainer for servers
- Ensured customer satisfaction
- Ran opening and closing to ensure quality
- Created/maintained regular relationships for the restaurant

