

SETH F. HAWKE
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SUMMARY OF QUALIFICATIONS

- wildlife handling experience includes capture participation totaling >600 animals and >1500 hours at a wildlife rehabilitation center
- competent at mammal and avian blood collection, IM/SUBQ injection, and nasal swab/tissue collection
- familiar with spatial analysis and map creation in Esri GIS products and Program R
- experienced in project management as well as teaching and training students, volunteers, and employees
- skilled at interfacing with the public, including public speaking and conflict de-escalation

EDUCATION

Master of Science in Wildlife, Aquatic, and Wildlands Science and Management **Anticipated 2026**
Texas Tech University, Lubbock, Texas GPA: 4.0
Relevant coursework: Analysis of Animal Movement and Habitat Use; Public Opinion in Agriculture and Natural Resources; Ecological Modeling; Spatial Database Management; Statistical Applications

Bachelor of Science in Wildlife Biology **May 2024**
Texas Tech University, Lubbock, Texas GPA: 3.8
Relevant coursework: Vegetation of North America; Big Game Ecology; Quantitative Methods in Natural Resources; Natural Resource Policy; Wildlife Population Dynamics

Associate of Arts **December 2022**
South Plains College, Levelland, Texas GPA: 3.5

RESEARCH

Master's Research Assistantship **August 2024 – May 2026**
Thesis: Gray wolf habitat selection and movement in Southcentral Alaska
Supervisors: Dr. Warren C. Conway, Department of Natural Resources Management, Texas Tech University
Dr. David T. Saalfeld, Alaska Department of Fish and Game, Anchorage, Alaska

- modeled wolf and moose habitat selection using generalized linear mixed models in R and ArcGIS Pro
- developed a predictive map for wolves with step selection analysis using 2.2 million GPS locations
- developed a predictive map for moose with resource selection analysis using ~800,000 GPS locations
- modeled home ranges of gray wolves using 95% KDEs and AKDEs
- evaluated movement patterns of dispersal and resident gray wolves

Undergraduate Researcher **March 2023 – May 2024**
Project: Endoparasite occurrence in bighorn sheep, mule deer and aoudad in the Trans-Pecos region of Texas
Supervisor: Courtney L. Ramsey, Department of Natural Resources Management, Texas Tech University

- collected fecal samples from 56 bighorn sheep, mule deer, and aoudad during captures
- analyzed samples using fecal flotation techniques to identify parasite species and prevalence
- analyzed data using statistical methods and reported results in both presentation and manuscript forms
- supervised and trained 3 other students to perform sample analysis and collection

WILDLIFE EXPERIENCE

Ungulate Spotlight Survey Volunteer **August – September 2025**
Supervisor: Carsten Groos, Texas Tech University Llano River Field Station, Kimble County, Texas

- participated in spotlight surveys for white-tailed deer and various exotic ungulates in central Texas

Field Volunteer **February – March 2025**
Supervisors: Dave T. Saalfeld and Kiana Young, Alaska Department of Fish and Game, Anchorage, Alaska

- assisted with checking and resetting box traps for wolverines and Canada lynx

Chronic Wasting Disease Research Lab Technician**April – August 2024**

Supervisors: Dr. Warren C. Conway, Department of Natural Resources Management, Texas Tech University
Dr. Lenka Halamkova, Department of Environmental Toxicology, Texas Tech University

- performed sample preparation and analysis using proprietary methods in a BSL2 advanced laboratory for chronic wasting disease anti-mortem testing research
- supervised and trained 3 other employees on sample analysis and laboratory safety

General Lab and Field Assistant**March 2023 – April 2024**

Supervisor: Courtney L. Ramsey, Department of Natural Resources Management, Texas Tech University

- assisted with quality control and data management for an elk habitat study
- inventoried, organized, and catalogued biological sample inventory of 10,000+ samples
- helped assemble and inventory capture kits and supplies
- assisted with general laboratory maintenance and organization

Field Lab Volunteer Teaching Assistant**Spring 2022, Fall 2022, Spring 2024**

NRM-1401: Introduction to Natural Resource Management

Supervisors: Drs. Warren C. Conway and Philip S. Gipson, Texas Tech University Llano River Field Station

- presented lectures to undergraduate students on VHF/GPS telemetry, herpetology, forestry, camera trapping, and wildlife trapping for research
- demonstrated animal trapping techniques including Havahart, Sherman, pitfall, and hoop traps

Coyote Food Habits Lab Technician**August 2022 – March 2023**

Supervisor: Dr. Warren C. Conway, Department of Natural Resources Management, Texas Tech University

- developed a dichotomous key to identify small mammal remains
- washed, dried, and visually identified composition of >500 coyote scat samples
- supervised and trained 1 volunteer

Tissue Sample Collection Lead Volunteer**October 2022 – February 2023**

Supervisor: Dr. Warren C. Conway, Department of Natural Resources Management, Texas Tech University

- taught members of the Texas Tech student chapter of the Wildlife Society how to collect tissue samples for research purposes, how to field dress white-tailed deer, and how to perform a basic necropsy
- assessed deer body condition based on physical assessment and kidney fat indices
- presented findings to the board of directors of the funding organization

Coyote Scat Collection Field Technician**May 2022 – August 2022**

Supervisor: Dr. Philip S. Gipson, Department of Natural Resources Management, Texas Tech University

- assisted in field collection of noninvasive coyote scat samples on a research ranch near Roby, Texas
- created a database to organize sample information in Microsoft Excel

White-tailed Deer Sample Collection Volunteer**May 17, 2022**

Texas Tech University and Texas Parks and Wildlife, George West, Texas

- assisted in cataloguing and centrifuging blood and tissue samples from white-tailed deer

Wildlife Rehabilitation Assistant**November 2020 – December 2021**

Supervisor: Gail Barnes, South Plains Wildlife Rehabilitation Center, Lubbock, Texas

- >1500 hours of combined employee and volunteer experience
- handled raptors, songbirds, waterfowl, skunks, bobcats, red and gray foxes, rabbits, squirrels, and a porcupine
- administered oral medication as well as IM and SUBQ injection, triaged and treated injured wildlife
- cared for wildlife including nutrition, enrichment, and enclosure maintenance
- presented at educational programs at public libraries, parks, and schools to encourage investment of the public in natural resources, as well as to college classes to recruit volunteers
- traveled around Lubbock County to retrieve injured wildlife in response to public reports
- trained new volunteers and interns

WILDLIFE CAPTURE PARTICIPATION

- Mexican gray wolf**, 1 animal **September 25, 2025**
Wolf Haven International, Tenino, Washington
• performed blood collection, SUBQ vaccination, physical exam, TPRs, and assisted with animal release
- Desert bighorn sheep**, 30 animals **August 26, 2025**
Texas Parks and Wildlife, Borderlands Research Institute, and Texas Tech University, Trans-Pecos region, Texas
• collected ear tissue samples, assisted with radio-collaring and animal release
- Canada lynx**, 1 animal **February 26, 2025**
Alaska Department of Fish and Game, Anchorage, Alaska
• assisted with animal monitoring
- Desert bighorn sheep**, 77 animals **December 3-5, 2024**
Texas Parks and Wildlife, Borderlands Research Institute, and Texas Tech University, Trans-Pecos region, Texas
• collected anterior nasal swab samples for M. ovi and covid, created blood slides, centrifuged serum
- Ring-necked pheasant**, 96 animals **August – December, 2024**
Texas Tech University, Lubbock, Texas
• collected blood and feather samples, captured and restrained animals, assisted with data recording
- Monarch butterfly**, 52 animals **October 12, 2024**
Texas Tech University, Crowell, Texas
• led and coordinated capture, affixed Monarch Watch tags
- Mule deer, desert bighorn sheep, and aoudad**, 87 animals **October 30 – November 3, 2023**
Texas Parks and Wildlife, Borderlands Research Institute, and Texas Tech University, Trans-Pecos region, Texas
• monitored animal temperatures, collected and performed field analysis on fecal samples, created blood slides
- Various passerine species**, 6 animals **April 8, 2023**
Texas Tech University, Lubbock, Texas
• set up and dismantled mist nets, assisted with banding captured birds
- Mule deer, desert bighorn sheep, and aoudad**, 160 animals **March 11-20, 2023**
Texas Parks and Wildlife, Borderlands Research Institute, and Texas Tech University, Trans-Pecos region, Texas
• monitored animal temperatures, collected nasal swab samples for M. ovi and covid, collected fecal samples
- Purple martin**, 15 animals **July 19, 2022**
James D. Ray and Texas Tech University, Canyon, Texas
• led and coordinated TTU student team, captured and retrieved birds from gourds, affixed GPS backpacks
- Wild turkey**, 22 animals **December 13-14, 2021**
Texas Tech University and Borderlands Research Institute, Wellington, Texas
• retrieved turkeys from rocket net, affixed leg bands
- White-tailed deer**, 60 animals **October 22-25, 2021**
East Foundation, Hebbronville, Texas
• retrieved restrained animals using a UTV, scored antlers, assisted with data recording, participated in release

PRESENTATIONS

- Hawke, S. F., W. C. Conway, D. T. Saalfeld, C. L. Ramsey, and C. L. Coldren. 2025. Spatial ecology of gray wolves in Southcentral Alaska. 4th Annual Research Day, Department of Natural Resources Management, Texas Tech University. Lubbock, Texas. Poster.
- Hawke, S. F., C. L. Ramsey, D. T. Saalfeld, and W. C. Conway. 2024. Movement and habitat use of gray wolves in Southcentral Alaska. NRM Graduate Seminar, Department of Natural Resources Management, Texas Tech University. Lubbock, Texas. Oral Presentation.

Hawke, S.F., C. L. Ramsey, and W. C. Conway. 2024. Endoparasite occurrence in sympatric mule deer, bighorn sheep, and aoudad in the Trans-Pecos region of Texas. 3rd Annual Research Day, Department of Natural Resources Management, Texas Tech University. Lubbock, Texas. Poster.

Hawke, S.F., C. L. Ramsey, and W. C. Conway. 2024. Endoparasite occurrence in sympatric bighorn sheep and aoudad in the Trans-Pecos region of Texas. 60th Annual Meeting of the Texas Chapter of the Wildlife Society. Houston, Texas. Poster.

Hawke, S. F., D. C. Deming, W. C. Conway, B. T. Henen, and C. L. Ramsey. 2023. Coyote food habits in the Mojave Desert region. 2nd Annual Research Day, Department of Natural Resources Management, Texas Tech University. Lubbock, Texas. Poster.

CERTIFICATIONS

Wildlife Handling and Chemical Immobilization, Dr. Mark Johnson and Wolf Haven International	2025
Associate Wildlife Biologist, The Wildlife Society	2025
Red Cross Adult First Aid/CPR/AED	2025
The Foundations of Wildlife Chemical Capture, Global Wildlife Resources, Inc.	2024
Texas Hunter Education, Texas Parks and Wildlife	2022

SKILLS AND INTERESTS

• ArcGIS Pro, ArcGIS Online	• mammal and avian trapping	• long-distance hiking
• Program R, HTML, CSS	• mammal skull ID	• 4x4 in snow/ice
• VHF telemetry	• CWD sample collection	• trailer hauling
• communication, organization	• firearm safety	• equine care/handling

MEMBERSHIPS

The Wildlife Society , Texas, Alaska, Washington, and Oregon Chapters	August 2021 – Present
American Society of Mammalogists	July 2023 – Present
The Honor Society of Agriculture , Gamma Sigma Delta	2024 – Present

PROFESSIONAL DEVELOPMENT

The Wildlife Society Texas Chapter	2021 – 2025
<ul style="list-style-type: none"> assisted program activities chair with registration and technical sessions at annual meetings in 2022, 2023, and 2024 	
Texas Tech Student Chapter	
<ul style="list-style-type: none"> assisted with planning, set-up, and donations for fundraising events assisted with composing annual newsletter and TWS award application worked with officers to develop novel methods to boost recruitment and member participation 	
Mule Deer Foundation Banquet Junction, Texas	October 19, 2024
<ul style="list-style-type: none"> helped moderate games for mule deer conservation fundraiser 	
Panhandle Wildlife Conference Texas Tech University, Lubbock, Texas	February 1-2, 2024
<ul style="list-style-type: none"> assisted conference organizer with setting up and dismantling conference equipment operated booth representing the TTU Department of Natural Resources Management 	

- R Coding Workshop for Mammalogists** **July 15-16, 2023**
 American Society of Mammalogists, 13th International Mammalogical Congress, Anchorage, Alaska
 • introduction to using R in ecological contexts
- R Programming Online Bootcamp** **January 8-12, 2023**
 Borderlands Research Institute, Alpine, Texas
 • learned introductory R Studio coding methods for natural resources applications
- Chronic Wasting Disease (CWD) Sample Collection Workshop** **November 19, 2022**
 Texas Parks and Wildlife, El Paso, Texas
 • practiced extraction of obex and medial retropharyngeal lymph nodes from mule deer for CWD testing
- Childress Deer Symposium** **October 29, 2021**
 Texas Tech University, Childress, Texas
 • assisted with operation of fundraising booth for the TTU Department of Natural Resources Management

HONORS AND AWARDS

- United Supermarkets Graduate Fellowship, Texas Tech University **2025 – 2026**
- Annual Outstanding Student, Department of Natural Resources Management, Texas Tech University **2023 – 2024**
- 3rd Place Undergraduate Poster Presentation, Department of Natural Resources Management,
 3rd Annual Research Day, Texas Tech University **April 2024**
- 2nd Place Undergraduate Poster Presentation, Texas Chapter Wildlife Society Annual Meeting **February 2024**
- G. R. White Wildlife Techniques Scholarship, Texas Tech University **June 2023**
- 1st Place Undergraduate Poster Presentation, Department of Natural Resources Management,
 2nd Annual Research Day, Texas Tech University **April 2023**
- Member of the Year, Texas Tech Student Chapter of the Wildlife Society **2023**
- President's Honor List, Texas Tech University **Spring 2024, Fall 2023**
- Dean's Honor List, Texas Tech University **Spring 2023, Fall 2022, Spring 2022, Fall 2021**

OTHER PROFESSIONAL EXPERIENCE

- Stocker** **April – August 2022**
 PetSmart, Lubbock, Texas
 • organized warehouse and sales floor
 • coordinated with other team members to ensure effective time management so that freight was completed each day
 • operated cash registers and assisted customers
- Meat Market Associate** **February 2019 – February 2021**
 Market Street, Lubbock, Texas
 • assisted with packaging, cutting, and stocking meat, including bandsaw operation
 • assisted customers with special requests and general questions at meat and seafood service counters
- Technical Support and De-escalation Agent** **February 2016 – February 2018**
 Suddenlink Communications, Lubbock, Texas
 • de-escalated tenuous situations with callers who requested to speak with management
 • resolved technical issues that callers experienced with internet, cable, and phone services