

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

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| Master of Science in Wildlife, Aquatic, and Wildlands Science and Management Texas Tech University, Lubbock, Texas <i>Relevant coursework:</i> Analysis of Animal Movement and Habitat Use; Public Opinion in Agriculture and Natural Resources; Ecological Modeling; Spatial Database Management; Statistical Applications | Anticipated 2026 GPA: 4.0 |
| Bachelor of Science in Wildlife Biology Texas Tech University, Lubbock, Texas <i>Relevant coursework:</i> Vegetation of North America; Big Game Ecology; Quantitative Methods in Natural Resources; Natural Resource Policy; Wildlife Population Dynamics | May 2024 GPA: 3.8 |
| Associate of Arts South Plains College, Levelland, Texas | December 2022 GPA: 3.5 |

RESEARCH

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| Master's Research Assistantship 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 | August 2024 – May 2026 |
| Undergraduate Researcher 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 | March 2023 – May 2024 |

• 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

• 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

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| Ungulate Spotlight Survey Volunteer Supervisor: Carsten Groos, Texas Tech University Llano River Field Station, Kimble County, Texas | August – September 2025 |
| • participated in spotlight surveys for white-tailed deer and various exotic ungulates in central Texas | |

Field Volunteer
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

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

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

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

MEMBERSHIPS

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| 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 2021 – 2025

Texas Chapter

- assisted program activities chair with registration and technical sessions at annual meetings in 2022, 2023, and 2024

Texas Tech Student Chapter

- 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 October 19, 2024

Junction, Texas

- helped moderate games for mule deer conservation fundraiser

Panhandle Wildlife Conference February 1-2, 2024

Texas Tech University, Lubbock, Texas

- assisted conference organizer with setting up and dismantling conference equipment
- operated booth representing the TTU Department of Natural Resources Management

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

HONORS AND AWARDS

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| 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

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| Stocker PetSmart, Lubbock, Texas | April – August 2022 |
| • 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 Market Street, Lubbock, Texas | February 2019 – February 2021 |
| • 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 Suddenlink Communications, Lubbock, Texas | February 2016 – February 2018 |
| • de-escalated tenuous situations with callers who requested to speak with management | |
| • resolved technical issues that callers experienced with internet, cable, and phone services | |