
CHRISTOPHER RAY CARTER

CURRICULUM VITAE

Texas Tech University
Department of Natural Resources Management
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EDUCATION

PhD. Texas Tech University, Department of Natural Resources Management, Lubbock, Texas.
2023-present

M.S.: Texas Tech University, Department of Natural Resources Management, Lubbock, Texas.
M.S. in Wildlife, Aquatic, and Wildlands Science and Management, December 2019. Graduated
with 4.0 GPA

Thesis title: "Mesopredator Occurrence and Relationships with Natural and Anthropogenic
Features in an Urban Area on the Southern High Plains of Texas"

B.S.: Lubbock Christian University; Lubbock, Texas. In Biology; May 2002. Graduated Cum
Laude, 3.5 GPA

EMPLOYMENT HISTORY:

2023-Present: Graduate Research Assistant, Texas Tech University

- Microbiomes of surface water in the desert landscape of the Trans-Pecos region of Texas
- *Mycoplasma ovipneumoniae* viability in a freshwater habitat
- DNA methylation in response to disease presence among desert caprids

2020-2022: Medical Technologist, Grace Clinic of Lubbock, Lubbock, Texas

- Performed patient and quality control testing and instrument calibrations in fast paced,
small hospital chemistry, hematology, and high complexity testing in immunology
- Performed instrument maintenance and prepared daily and monthly reports for testing
outputs and turnaround times

2011-2020: Medical Technologist, Lubbock Heart and Surgical Hospital, Lubbock, Texas

- Performed patient and quality control testing and instrument calibrations in fast pace, small hospital chemistry, hematology, and blood bank departments
- Assisted Laboratory Director with validation studies of new electronic health record and new clinical instrumentation
- Developed laboratory technical procedures for new instrumentation
- Critical thinking skills necessary for identifying secondary patient antibodies and potential issues involved in blood transfusions
- Assisted with maintaining compliance and accreditation both in blood bank and throughout the laboratory
- Maintained inventory of blood products in blood bank
- Audited blood transfusion charges and documentation throughout the hospital
- Maintained records of blood product throughput

PROFESSIONAL PRESENTATIONS

Carter, C.R., W.C. Conway, J. French, P. Brewster, and C. Ramsey. 2025. Response of *Mycoplasma ovipneumoniae* viability to a freshwater environment. Texas Tech University Department of Natural Resource Management Research Day. April 28, 2025. (Poster Presentation)

Carter, C.R., W.C. Conway, J. French, and C. Ramsey. 2024. Microbiome structure in wildlife water sources in the Trans-Pecos region of Texas. Texas Tech University Department of Natural Resource Management Research Day. April 24, 2024. Lubbock. (Poster Presentation).

Carter, C.R., W.C. Conway, M.C. Wallace, and R.D. Bradley. 2019. Mesopredator occurrence and distribution in an urban environment in the Southern High Plains of Texas. International Urban Wildlife Conference 2019. June 2-5, 2019. Portland, Oregon. (Oral Presentation).

Carter, C.R., W.C. Conway, M.C. Wallace, and R.D. Bradley. 2019. Mesopredator occurrence and distribution in an urban environment in the Southern High Plains of Texas. 55th Annual Meeting of the Texas Chapter of The Wildlife Society. February 21-23, 2019. Conroe, Texas. (Oral Presentation).

Carter, C.R., W.C. Conway, M.C. Wallace, and R.D. Bradley. 2018. Environmental factors affecting mesopredator occupancy in an urban area on the Southern High Plains of Texas. 54th Annual Meeting of The Texas Chapter of The Wildlife Society. February 9-11, 2018. Dallas, Texas. (Oral Presentation)

Carter, C.R., W.C. Conway, M.C. Wallace, and R.D. Bradley. 2017. Mesopredator occurrence in an urban landscape on the Southern High Plains of Texas. 2017 Annual International Urban Wildlife Conference. June 4-7, 2017. San Diego, California. (Poster Presentation).

Carter, C.R., W.C. Conway, M.C. Wallace, and R.D. Bradley. 2017. Environmental factors affecting mesopredator occurrence in an urban landscape. 53rd Annual Meeting of The Texas Chapter of The Wildlife Society. February 16-18, 2017. San Antonio, Texas. (Poster Presentation)

GUEST LECTURER

- Bighorn sheep ecology and management regulations, March 2023
- Principles of Wildlife Management, November 2023

TEACHING ASSISTANT

- Advanced Biometry Laboratory Instructor, Spring 2025

RELEVANT PROFESSIONAL WILDLIFE EXPERIENCES

- July 2015: Assisted with New Mexico Pronghorn study
 - Performed counts
 - Identified tagged individuals
 - Determined location through visual detection and gps coordinates
 - Located individuals with radio telemetry
- Fall 2015-Spring 2016: Teaching Assistant for NRM 3306 Principles of Wildlife Management, Texas Tech University
 - Taught undergraduates the proper use of Robel poles
 - Taught the use of quadrats for quantifying groundcover
 - Taught use of Sherman traps and processing small mammals for catch and release studies
 - Taught use of compasses for positional triangulation
 - Taught fish seining and species identification
- October 2017: Assisted with Mule Deer Capture, Perryton, Texas
 - Collected fur from individuals

- Assisted with handling and weighing
 - Assisted with collaring
 - Assisted with measuring hindquarter fat with ultrasound instrumentation
 - Collaborated closely with multiple individuals from Texas Parks and Wildlife
- April 2019: Assisted with New Mexico Lesser Prairie Chicken study
 - Set traps for capture and processing
 - Performed individual counts at leks
 - Identified previously captured individuals with bands
- January 2020: Assisted with Coyote Capture, Hebbronville, Texas
 - Assisted with animal handling
 - Tissue collections
- February 2023: Assisted with Bighorn sheep and Mule Deer Capture, Alpine, Texas, Elephant Mountain Wildlife Management Area
 - Blood and tissue procurement and processing
 - Animal handling
- March 2023: Assisted with Aoudad and Mule Deer capture, Marfa and Van Horn, Texas
 - Blood and tissue procurement and processing
 - Animal handling
- October 2023: Assisted with Bighorn sheep, Aoudad, and Mule Deer Capture, Big Bend Ranch State Park and Black Gap Wildlife Management Area
 - Blood and tissue procurement and processing
 - Animal handling
- December 2024: Assisted with Bighorn sheep capture and translocation, Alpine, Texas, Elephant Mountain Wildlife Management Area
 - Nasal swab collection and processing
 - Animal handling
- February 2025: Assisted with mule deer, white tail deer, and elk capture, Dalhart, Texas
 - Blood and tissue procurement and processing
 - Animal handling
- March 2025: Assisted with mule deer capture, El Paso, Texas
 - Tissue collection
 - Animal handling
- March 2025: Assisted with Aoudad and Mule Deer Capture, Marfa and Van Horn, Texas
 - Blood and tissue procurement and processing
 - Animal Handling

ACCREDITATIONS

- Chemical Capture Certification, April 2024

MEETINGS ATTENDED

- Attended Texas Chapter of the Wildlife Society meeting, San Antonio, Texas, February 2016
- Attended Texas Society of Mammalogists meeting, Junction, Texas, February 2016
- Moderated Texas Chapter of the Wildlife Society panel, Corpus Christi, Texas, February 2020
- Attended Desert Bighorn Council meeting, Alpine, Texas, May 2023
- Attended Wild Sheep Foundation Sheep Show, Reno, Nevada, January 2024
- Attended Texas Chapter of the Wildlife Society meeting, Houston, Texas, February 2024
- Attended Texas Chapter of the Wildlife Society meeting, Denton, Texas, February 2025

RELEVANT COURSEWORK

- ZOOL5402 Advanced Mammalogy (Texas Tech University)
- PSS5302 Statistical Applications (Texas Tech University)
- NRM5347 Advanced Conservation Science (Texas Tech University)
- NRM6305 Geospatial Technologies in NRM (Texas Tech University)
- NRM6002 Biometry II (Texas Tech University)
- NRM5313 Advanced Big Game Ecology and Management (Texas Tech University)
- NRM5337 Fish and Wildlife Population Modeling (Texas Tech University)
- ENTX6327 Molecular Toxicology (Texas Tech University)
- NRM6303 Imagery Interpretation (Texas Tech University)
- NRM6408 Advanced Biometry for Ecologists (Texas Tech University)
- AGED6301 The Professorate (Texas Tech University)
- PSS5301 Advanced Genetics (Texas Tech University)
- VSCI5100 Animal Diseases – Seminar: Part One (Texas Tech University)

MEMBERSHIPS & AFFILIATIONS

- Association of Natural Resources Scientists, Texas Tech University – 2015-2020
- Texas Bighorn Society – 2023-present
- Texas Chapter of The Wildlife Society – 2016-2020, 2023-present
- Texas Society of Mammalogists – 2017-2020
- Wild Sheep Foundation – 2023-present

HONORIFICS

- 3rd Place Poster Competition, Texas Tech University Department of Natural Resources Management Research Day, April 28, 2025

OUTREACH AND ENGAGEMENT

- Lubbock's Furry Citizens: Wild Urban Mammals, May 24, 2025