

Carsten Groos

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Employment History:

9/2025-	Graduate Instructor of Natural Resources Management, Department of Natural Resources Management, Texas Tech University, Lubbock, Texas
9/2024-8/2025	Graduate Teaching Assistant, Department of Natural Resources Management, Texas Tech University, Lubbock, Texas
2/2024-8/2024	Graduate Assistant, Department Natural Resources Management, Texas Tech University Lubbock, Texas
1/2023-12/2023	Delivery Driver, Wilson Brother's Tile and Flooring, Oklahoma City, Oklahoma
5/2023-8/2023	Project Manager, LawnPop Artificial Turf, Austin, Texas
8/2020-1/2023	Student Athlete, The University of Oklahoma, Norman, Oklahoma
5/2022	Wildlife Intern, King Ranch, Kingsville, Texas
1/2017-3/2022	Private Quarterback and Receiver Trainer, Austin, Texas
5/2020-6/2020	Ranch Hand, Powell Ranches, Fort McKavett, Texas
11/2018-12/2019	Salesman, Papa Noel Christmas Trees, Austin, Texas
5/2016-7/2017	Washer, Three Amigos Car Wash Service, Austin, Texas
2/2017-4/2017	Youth Lacrosse Official, Central Texas Youth Lacrosse League, Austin, Texas

Education:

M.S.:

Texas Tech University, Department of Natural Resources
Management, Lubbock, Texas. M.S. in Wildlife, Aquatic, and
Wildlands Science Management.

Expected Graduation August 2026.

Thesis title: Population Densities and Habitat Associations of Free-Ranging Native and Exotic Ungulates in the Edwards Plateau of Texas

B.S.: University of Oklahoma, Dodge College of Arts and Sciences,
B.S. in Environmental Studies.
December 2023.
Summa Cum Laude

Research and Experience

Research Projects:

2. Groos, C.G. , C.L. Ramsey, and W.C. Conway. Estimating population densities and habitat associations of free-ranging native and exotic ungulates in the Edwards Plateau of Texas. (master's thesis in progress)	1/2024 - Present
<ul style="list-style-type: none">- Estimating cover-type specific population densities and regional abundances of white-tailed deer, axis deer, and blackbuck in 6 counties in the Texas Hill Country- Developing estimates of regional land cover change; estimating prospective ungulate abundance trends and levels of sympatry	
1. Groos, C.G. and A. Yang. Investigating the effectiveness of trap design on managing wild pig populations. (unpublished)	1/2022 – 4/2022
<ul style="list-style-type: none">- Undergraduate research project through the Dodge College of Arts and Sciences at the University of Oklahoma, research conducted in the Texas Hill Country- Compared the effectiveness of 3 different trap designs for capturing feral pigs- Developed a ranking scale to identify the optimal trap design for reducing invasive feral pig abundance based on trap capture effectiveness metrics, cost, durability, and ease of set up	

Experience:

7. Animal Handler, East Foundation Deer Capture, San Antonio Viejo Ranch, Hebbronville, Texas	11/2025
6. Sampler and Animal Handler, Ramsey, Project: M.R., C.L. Ramsey, and W.C. Conway. The effects of imidacloprid on ring-necked pheasant physiology and growth., Lubbock, TX	9/2024 - 12/2024

5.	Animal Handler, Texas Parks and Wildlife Department Bighorn Sheep Translocation, Elephant Mountain WMA, Alpine, TX	12/2024
4.	Wildlife Intern, King Ranch, Kingsville, Texas	5/2022
3.	Ranch Hand, Powell Ranches, Fort McKavett, Texas	5/2020 - 6/2020
2.	Wildlife Intern, TLL Temple Foundation Boggy Slough Conservation Area, Lufkin, Texas	7/2018
1.	Cadet, 2016 South Texas Buckskin Brigades, Texas Brigades, Uvalde, Texas	6/2016

Publications and Presentations

Publications:

1. Brown, P. H. Cooper, **C. Groos**, C., and C. Van Dertuin. 2023. Excessive Subsurface Vibrations: The Impact of the Derichebourg Industrial Recycling Facility Explosions. Amazon Web Services Metro-Archive-Files: JFKNEI~1. (non-peer reviewed)

Oral Presentations:

2. **Groos, C.G.** 2025. Population densities and habitat associations of native and exotic ungulates in the Texas Hill Country. Texas Parks and Wildlife Department, Mule Deer and Pronghorn Technical Committee Meeting. August 13, 2025. Lubbock, Texas.
1. **Groos, C.G.** 2024. Estimating population densities and habitat associations of white-tailed deer, axis deer, and aoudad in the Edwards Plateau of Texas. Texas Tech University, Department of Natural Resources Management, Thesis Proposal Seminar. November 10, 2024. Lubbock, Texas.

Poster Presentations (*presenter):

2. **Groos, C.G.**, C.L. Ramsey, C. Portillo-Quintero, and W.C. Conway. 2025. Estimating population densities and habitat associations of native and exotic ungulates in the Edwards Plateau region of Texas. Texas Tech University, Department of Natural Resources Management, Research Day, April 28, 2025.
1. **Groos, C.G.**, C.L. Ramsey, C. Portillo-Quintero, and W.C. Conway. 2024. Population Density and habitat associations of white-tailed deer (*Odocoileus virginianus*), axis (*Axis axis*), and aoudad (*Ammotragus lervia*) in the Edwards Plateau region of Texas. Texas Tech University, Department of Natural Resources Management, Research Day. April 24, 2024

Professional Development

Workshops, Conferences, and Events:

- 2025 Texas Parks and Wildlife Pronghorn and Mule Deer Technical Committee Meeting, Lubbock, Texas, August 13-14, 2025
- 2025 Texas Tech University Natural Resources Management Department Research Day, Lubbock, Texas, April 28, 2025
- 2025 Texas Chapter of the Wildlife Society Annual Conference, Denton, Texas, February 18-22, 2025
 - Workshop attended: Survey123-Being Happy with Your Data Collection, Amanda Hackney*
- “R Programming Bootcamp” led by J. French and M. Hewitt. CASNR Annex, Texas Tech University, Lubbock, Texas. October 7, 2024. (Mixed virtual and in-person coding workshop).
- “How to Perform a Necropsy on Potentially-CWD-Positive Animals” led by H. Reed, Texas Parks and Wildlife Department, Lubbock, Texas, January 28, 2025,
- Houston Safari Club Foundation Annual Convention, The Woodlands, Texas, January 16-19, 2025
- 19th Annual South Texas Wildlife Conference, Pleasanton, Texas, September 13, 2024
- The Mule Deer Foundation Annual Banquet, Roosevelt, Texas, October 19, 2024
- 2024 Texas Tech University Natural Resources Management Department Research Day, Lubbock, Texas, April 24, 2024
- “Policy Bootcamp” led by G. Schlidwachter and C. Booher, Ceasar Kleberg Wildlife Research Institute, Kingsville, Texas, May 13-14, 2024
- 2024 Texas Chapter of the Wildlife Society Annual Conference, Houston, Texas, February 21-23, 2024
- 2024 Panhandle Wildlife Conference, Lubbock, Texas, February 1-2, 2024

Skills:

- General
 - MIG welding, stick welding, metal fabrication
 - Wood working
 - Vehicle maintenance and repair
- Range and Wildlife Management
 - Skid steer and tractor operation
 - Grain drill planting and native reseeding
 - Irrigation systems

- Animal marking- bird banding and mammal collaring
- Chemical mixing and application
- Livestock handling
- Duck and deer identification and aging
- Wildlife capturing and handling
- Spotlight surveying and camera trapping
- Macroinvertebrate collection
- Fish seining
- Very High Frequency (VHF) Telemetry
- Global Positioning Systems (GPS) usage
- Technological
 - Coding and Mapping
 - Geographic Information Systems (GIS)
 - Google Earth Engine
 - Coding- Program R and RStudio
 - Microsoft systems
 - Data Management
 - Excel
 - ArcGIS Survey123
 - eLabNext

Leadership and Awards

Leadership and Service:

Graduate Teaching Assistant and Graduate Instructor, Texas Tech University

- TTU NRM-1401-Introduction to Natural Resources Management
 - Instructed the course laboratory for over 900 undergraduate students over 2 years
 - Led over 50 volunteers and staff members on 9 out-of-town labs and 48 in-town labs
 - Coordinated travel logistics, lodging arrangements, equipment transport, meals, and personnel placement for out-of-town weekend laboratories
 - Worked with travel coach companies, other campuses and properties, kitchen staffs, and our fleet vehicle manager
 - Developed course content and made modifications to the syllabus to improve the student experience and eliminate gaps in the content
 - Worked with the student affairs office, the department chair, multiple business administration staffs, and fellow staff members to ensure the smooth operation of the course
 - Recruited volunteers and hired undergraduate learning assistants (LAs) to enhance the teaching capacity and student experience for the course

- Managed laboratory equipment upkeep, student related issues, laboratory schedules, and teaching content
 - Hosted a team of journalists and provided an interview for their publication about our course
- Master's Thesis Research
 - Led teams of researchers to the Edwards Plateau, Rolling Plains, and Cross Timbers to conduct research on big game species
 - Led 24 people across 3 trips to conduct spotlight surveys on multiple properties in North Texas
 - Led 9 people during 4 field seasons to conduct spotlight surveys for big game animals in the Edwards Plateau
 - Conducted landowner meetings and property tours
 - Corresponded with landowners, law enforcement, and Texas Parks and Wildlife Department officials about issues and information related to the research
 - Provided 5 organizations with information and/or interviews for publication and social media posts
 - Represented the Texas Tech Natural Resources Management Department at the 98th Annual Davis College Pig Roast as a scholarship recipient
 - Volunteered for the Brown Elementary Avid Academic Night showcasing the wildlife field to future first-generation college students
 - Chaperoned the TTU Student Chapter of The Wildlife Society 2025 deer capture trip to the East Foundation's San Antonio Viejo Ranch

Student Athlete, the University of Oklahoma

- Earned a varsity letter as a tight end on the football team after walking-on as a quarterback
- Elected into a leadership position as a community service and career development ambassador through the Serving Our Uncommon Legacy (SOUL) Mission Program
- Participated in the planning and implementation of Sooner Service Days, a bi-annual community service event in Norman, Oklahoma

Project Manager, LawnPop Artificial Turf

- Managed 3 work crews
- Conducted 25 projects bringing \$414,000 in revenue in 2 months with a 100% customer satisfaction rate
- Conducted over 50 client sales meetings
- Coordinated crew logistics, materials purchasing, client follow-ups, and schedule management

Student, L.C. Anderson High School

- Young Men's Service League- 4 years of philanthropic community service
- Fellowship of Christian Athletes Leader- 1 year
- Peers Assistance Leadership and Service- 1 year
- Two sport varsity captain- football and lacrosse

Honors and Awards:

- 2025- Houston Livestock Show and Rodeo Graduate Assistantship Scholarship Recipient
- 2025 TTU NRM Research Day- 1st Place Graduate Research Poster Presentation
- 2025 Houston Safari Club Foundation Dan L. Duncan Scholar
- 2024 Houston Safari Club Foundation Dan L. Duncan Scholar
- University of Oklahoma- Six-time President's Honor Roll (4.0) recipient
- 2022 BIG-12 First Team Academic All-American
- 2022 OU Football Derrick Shepard Award
- 2021 and 2022 University of Oklahoma Football Scout Team MVP
- 2020-2023 University of Oklahoma Distinguished Scholar Award
- 2022 University of Oklahoma Dodge College of Arts and Sciences Research Grant
- 2020 Anderson High School Who's Who Award for Academic, Extracurricular, and Service Excellence (voted on by faculty)
- 2015 South Texas Buckskin Brigades Cadet

Trainings and Memberships

Trainings, Certificates, and Licenses:

- Hazard Communications
- Bloodborne Pathogens
- Biological Science
- Laboratory Safety
- Texas Class C Driver's License
- Texas License to Carry a Handgun
- Texas Boating License
- FAA Small UAS Certificate
- Texas Hunting and Fishing License

Professional Memberships:

- The Wildlife Society
- The Texas Chapter of the Wildlife Society

Other Memberships:

- The Mule Deer Foundation
- Ducks Unlimited
- The Houston Safari Club
- South Plains Archery Club
- Association of Natural Resources Scientists- TTU