



Ty J. Werdel

ASSISTANT PROFESSOR

Department of Rangeland, Wildlife and Fisheries Management - Texas A&M University, College Station, TX

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My research interests include the fields of Rangeland and Wildlife Management and Landscape Ecology. This work addresses questions that provide insight into the relationships between wildlife, native environments, and contemporary human-modified landscapes.

Education

Ph.D. Horticulture and Natural Resources

KANSAS STATE UNIVERSITY

Manhattan, KS

2022

M.S. Wildlife Sciences

SOUTH DAKOTA STATE UNIVERSITY

Brookings, SD

2017

B.S. Rangeland and Wildlife Management

CHADRON STATE COLLEGE

Chadron, NE

2013

Certifications

Certified Wildlife Biologist®

THE WILDLIFE SOCIETY

Bethesda, MD

2024

Certified Peer Reviewer

ELSEVIER RESEARCHER ACADEMY

Amsterdam, NL

2024

Esri Academy ArcGIS (9 Certifications)

ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE

Redlands, CA

2021

Professional Certification in Data Analysis for Life Sciences (R)

HARVARDX, HARVARD UNIVERSITY

Cambridge, MA

2020

GTA Certificate of Achievement in Professional Development

KANSAS STATE UNIVERSITY

Manhattan, KS

2020

Faculty Exchange for Teaching Excellence

KANSAS STATE UNIVERSITY

Manhattan, KS

2020

Associate Wildlife Biologist®

THE WILDLIFE SOCIETY

Bethesda, MD

2016

Graduate Certification in Geospatial Technology

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

Rapid City, SD

2016

Project WILD/Project WILD Aquatic

ASSOCIATION OF FISH AND WILDLIFE AGENCIES

Chadron, NE

2013

Employment

Assistant Professor

DEPARTMENT OF RANGELAND, WILDLIFE, AND FISHERIES MANAGEMENT, TEXAS A&M UNIVERSITY

College Station, TX

2023 – Present

Vice Chancellor's Postdoctoral Research Fellow

DEPARTMENT OF RANGELAND, WILDLIFE, AND FISHERIES MANAGEMENT, TEXAS A&M UNIVERSITY

College Station, TX

2022 – 2023

Graduate Research and Teaching Assistant

DEPARTMENT OF HORTICULTURE AND NATURAL RESOURCES, KANSAS STATE UNIVERSITY

Manhattan, KS

2017 – 2022

Graduate Research and Teaching Assistant

DEPARTMENT OF NATURAL RESOURCE MANAGEMENT, SOUTH DAKOTA STATE UNIVERSITY

Brookings, SD

2014 – 2017

GIS Technician

NORTH PLATTE NATURAL RESOURCES DISTRICT

Scottsbluff, NE

2014 – 2014

Undergraduate Researcher

SEVILLETA LTER RESEARCH EXPERIENCE

Socorro, NM

2013 – 2013

Construction Foreman

WERDEL STEEL CONSTRUCTION

Chadron, NE

2005 – 2013

Construction Laborer

WERDEL STEEL CONSTRUCTION

Chadron, NE

1998 – 2005

Publications

Peer-Reviewed (*WERDEL WILDLIFE LAB MEMBER)

12. Rooney, B., ..., **T.J. Werdel**, ..., and W.J. McShea (> 100 Co-Authors). **2025**. SNAPSHOT USA 2019–2023: The first five years of data from a coordinated camera trap survey of the United States. *Global Ecology and Biogeography*. <https://doi.org/10.1002/ece3.70488>
11. Whitman, D.* and **T.J. Werdel**. **2024**. Occurrence of fox squirrels influenced by fine-scale landscape characteristics on a college campus. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.70488>
10. Palomo-Muñoz, G., M. Fidino, **T.J. Werdel**, C.W. Piper, T. Gallo, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. **2024**. Mesopredators have differing influences on prey habitat use and diet activity in a multipredator landscape. *Ecosphere*. <https://doi.org/10.1002/ecs2.70006>
9. **Werdel, T.J.**, D. Matarrita-Cascante, and J.E. Lucero. **2024**. State of traditional ecological knowledge in the wildlife management profession. *Journal of Wildlife Management* (Featured Article). <https://doi.org/10.1002/jwmg.22579>
8. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. **2023**. Direct and indirect landscape-scale pathways structure carnivore communities in an agro-prairie ecosystem. *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gyad065>
7. **Werdel, T.J.**, J.A. Jenks, J.T. Kanta, C.P. Lehman, and T.J. Frink. **2023**. Resource selection and herbaceous biomass at foraging sites of translocated bighorn sheep. *Rangeland Ecology and Management*. <https://doi.org/10.1016/j.rama.2022.12.004>
6. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, D.S. Sullins, and A.A. Ahlers. **2023**. Strategic grassland conservation for swift foxes in multi-use landscapes. *Biological Conservation* (Finalist for TWS Publication Award). <https://doi.org/10.1016/j.biocon.2022.109864>
5. Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. **2022**. Spatiotemporal distributions of mammals occurring in an agro-prairie ecosystem. *Ecology*. <https://doi.org/10.1002/ecy.3945>
4. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. **2022**. Scale-specific landscape effects impose range-limiting constraints on the distribution of swift fox. *Landscape Ecology*, 37(8), 2065–2079. <https://doi.org/10.1007/s10980-022-01466-0>
3. **Werdel, T.J.**, J.A. Jenks, J.T. Kanta, C.P. Lehman, and T.J. Frink. **2021**. Space use and movement patterns of translocated bighorn sheep. *Mammalian Biology*, 101(3), 329–344. <https://doi.org/10.1007/s42991-021-00107-4>
2. **Werdel, T.J.**, J.A. Jenks, T.E. Besser, J.T. Kanta, C.P. Lehman, and T.J. Frink. **2019**. Restoration of a bighorn sheep population impeded by *Mycoplasma ovipneumoniae* exposure. *Restoration Ecology*, 28(2), 387–395 (Cover Article, Nominated for TWS Publication Award). <https://doi.org/10.1111/rec.13084>
1. **Werdel, T.J.**, J.A. Jenks, T.E. Besser, J.T. Kanta, C.P. Lehman, and T.J. Frink. **2018**. Survival of translocated bighorn sheep in the Deadwood region of the Black Hills, South Dakota. *Northwestern Naturalist*, 99(3), 222–231. <https://doi.org/10.1898/NWN18-06.1>

Book Chapters

1. Hessami, M.A., **T.J. Werdel**, S.J. Hoagland, and M.T. Kohl. **2022**. Melding Past, Present, and Future: The importance of tribal management in wildlife conservation and management. Chapter 1 in C. Bishop, E. Gomez, J. Organ, and T. Ryder eds. **Introduction to Wildlife Management and Conservation in North America**. Great River Learning of Dubuque, IA.

Book Reviews

1. **Werdel, T.J. 2023**. Wildlife Management and Landscapes: Principles and Applications. **Journal of Wildlife Management**. <https://doi.org/10.1002/jwmg.22512>

In-Revision/Review

2. Piper, C.W., **T.J. Werdel**, M.S. Peek, A.M. Ricketts, D.S. Sullins, and A.A. Ahlers. **In-Revision**. Landscape composition and proximity to water structure American badger distributions in shortgrass prairie. **Journal of Mammalogy**.
1. **Werdel, T.J.**, M. Fidino, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. **In-Review**. Landscape composition mediates spatiotemporal interactions among sympatric canids in a prairie ecosystem. **Ecological Applications**.

Research Coverage in Popular Media

16. **2024**. Chip Howard's Sports Talk (Campus Squirrels; "May 16, 2024 Hour 2"). **Sports Radio 1150 The Zone**. (<https://www.zone1150.com/chip-howard-sports-talk-podcast/>)
15. **2024**. Focus at Four: A&M students study squirrel behavior. **KBTX**. (https://www.kbtx.com/2024/05/12/focus-four-am-students-study-squirrel-behavior/?fbclid=IwZXh0bgNhZW0CMTEAAR2XGXfnp_R-U-YDyr16AQMmBf1aUoPf-45C_18aMnwWeL-Ic3r2SAJ77Ys_aem_AV8Gks9w0tGnZqMjF7L5HG_F-1POM2arX0LlDtu47ggTo4PVOGfAVvL87AHUi-KwDACbwi6gItJ7cx0MBeWycppa)
14. **2024**. Q&A: TEK AND THE WILDLIFE PROFESSION. **The Wildlife Society**. (https://wildlife.org/qa-tek-and-the-wildlife-profession/?utm_content=290664870&utm_medium=social&utm_source=twitter&hss_channel=tw-26287962)
13. **2024**. Students Gather Data On Campus Squirrels As Part Of Urban Wildlife Research Effort. **Texas A&M TODAY**. (<https://today.tamu.edu/2024/04/24/students-gather-data-on-campus-squirrels-as-part-of-urban-wildlife-research-effort/>)
12. **2024**. Scholarly squirrels: Exploring the dynamics of Texas A&M's campus wildlife. **AgriLife TODAY**. (<https://agrilifetoday.tamu.edu/2024/04/19/scholarly-squirrels-exploring-the-dynamics-of-texas-ams-campus-wildlife/>) (<https://youtu.be/Bperu7Zza3c?si=RNfih9hkZkrok2JL>)
11. **2023**. Texas winters can drive urban squirrels to nest in your home or car. Heres how to keep critters out. **Houston Chronicle**. (<https://www.houstonchronicle.com/news/houston-weather/article/squirrels-nesting-cars-homes-texas-winter-18565806.php>)
10. **2021**. Honoring the Land. **KSU Ag Report**. (https://www.k-state.edu/agreport/documents/AgReport_Fall2021_web.pdf)
9. **2019**. Pneumonia threatens success of bighorn sheep introduction near Deadwood. **Rapid City Journal**. (https://rapidcityjournal.com/news/local/pneumonia-threatens-success-of-bighorn-sheep-introduction-near-deadwood/article_3bb417a2-b9a0-5159-a623-ae334f9672eb.html?utm_medium=social&utm_source=email&utm_campaign=user-share)
8. **2018**. Life of the wild: Why scientists study ecosystems and the wildlife within them. **KSU Seek Research Magazine**. (<https://www.k-state.edu/seek/fall-2018/life-of-the-wild/#prettyPhoto>)
7. **2016**. Hope and Hardship for Black Hills Bighorns. **South Dakota Hunting**. (<https://southdakotahunting.com/article/hope-and-hardship-for-black-hills-bighorns>)
6. **2015**. South Dakota Game, Fish & Parks Projects. **Ram Tracks**. (<https://www.midwestwildsheep.com/wp-content/uploads/ISSUE-36-2.pdf>)
5. **2015**. New bighorn sheep herd thriving. **Black Hills Pioneer**. (https://www.bhpioneer.com/new-bighorn-sheep-herd-thriving/article_6b6c1d3e-2755-11e5-8f13-231b5dbc0d3d.html?utm_medium=soci)

al&utm_source=email&utm_campaign=user-share)

4. **2015.** SD GETS BIGHORNS TO BOOST NUMBERS. **GOHUNT.** (<https://www.gohunt.com/read/south-dakota-uses-canadian-bighorn-sheep-to-boost-numbers#gs.7q5znx>)
3. **2015.** Deadwood Bighorn Sheep Release. **KOTA Territory News.** (Video on nightly news)
2. **2015.** A bighorn sheep herd gets its start near Deadwood. **Rapid City Journal.** (https://rapidcityjournal.com/news/local/a-bighorn-sheep-herd-gets-its-start-near-deadwood/article_7629e423-af84-5c5a-be97-ad9c59c9f0cc.html?utm_medium=social&utm_source=email&utm_campaign=user-share)
1. **2015.** New herd of bighorn sheep moved to Hills. **Black Hills Pioneer.** (https://www.bhpioneer.com/local_news/new-herd-of-bighorn-sheep-moved-to-hills/article_808292d8-b3c5-11e4-9b4d-432fad90ac10.html)

Teaching Experience

Texas A&M University

INSTRUCTOR

- Wildlife Tracks & Sign, RWFM 402 & RWFM 602
- Techniques of Wildlife Management, RWFM 408 & RWFM 608
- Special Topics in Traditional Ecological Knowledge, RWFM 689

College Station, TX

2022 – Present

Kansas State University

GRADUATE TEACHING ASSISTANT

- Firearms Cartridges and Ballistics, WOEM 201
- Rifle and Handgun Range Design, Construction and Operations, WOEM 202
- Introduction to Wildlife and Outdoor Enterprise Management, WOEM 250
- Flora and Fauna of the Great Plains, WOEM 350
- Big Game Management, WOEM 555
- Waterfowl and Wetlands Management, WOEM 561
- Advanced Wildlife Habitat Management, WOEM 562

Manhattan, KS

2017 – 2022

South Dakota State University

GRADUATE TEACHING ASSISTANT

- Introduction to Wildlife and Fisheries, WL 220

Brookings, SD

2014 – 2017

Student Mentorship

Graduate Student Research Advising

Reece Allen, Ph.D., TAMU RWFM

2025 – Present

Daniel Ramirez, Ph.D., TAMU RWFM

2025 – Present

Else Praasterink, M.S., TAMU RWFM

2024 – Present

Cade Weiss, M.N.R.D., TAMU RWFM

2024 – Present

Amanda Laboy, M.S., TAMU RWFM

2023 – Present

Kayla Art, M.N.R.D., TAMU RWFM

2023 – Present

Lulu Hoffman, M.S., TAMU RWFM

2023 – Present

David Pearce, M.S., TAMU RWFM

2023 – Present

Conner Ties, M.S., TAMU RWFM

2022 – 2024

Undergraduate Student Research Advising

Daniel Whitman, B.S., Macalester College REU

2023 – 2024

Drake Dancila, B.S., TAMU RWFM

2022 – 2023

Lulu Hoffman, B.S., TAMU RWFM

2022 – 2023

Secondary School Student Research Advising

Sebastian Kuo, H.S., Carnegie Vanguard High School

2023 – 2024

Graduate Student Committee Member

Rider Combs , Ph.D., TAMU RWFM	2024 – Present
Kylie Perez , Ph.D., TAMU RWFM	2024 – Present
Jake Hanes , M.S., TAMU SCSC	2024 – Present
Daniel Ramirez , M.S., TAMU-Kingsville RWM	2023 – 2024

Student Honors & Awards

RWFM Spring Graduate Student Travel Grant , Amanda Laboy	2025
RWFM Spring Graduate Student Travel Grant , Kayla Art	2025
RWFM Spring Graduate Student Travel Grant , David Pearce	2025
RWFM Spring Graduate Student Travel Grant , Lulu Hoffman	2025
RWFM Fall Graduate Student Travel Grant , David Pearce	2024
RWFM Fall Graduate Student Travel Grant , Conner Ties	2024
Houston Safari Club Foundation Dan L. Duncan Scholarship , Conner Ties	2024
Houston Safari Club Foundation Dan L. Duncan Scholarship , David Pearce	2024
TAMU GPS Graduate Student Research and Presentation Travel Award , Lulu Hoffman	2024
RWFM Summer Graduate Student Travel Grant (x2) , David Pearce	2024
RWFM Summer Graduate Student Travel Grant , Amanda Laboy	2024
RWFM Summer Graduate Student Travel Grant , Lulu Hoffman	2024
RWFM Master's Student Excellence Award , Conner Ties	2024
American Society of Mammalogists Student Travel Award , David Pearce	2024
AgGIE Leadership Community Student Development Grant , Amanda Laboy	2024
RWFM Spring Graduate Student Travel Grant , David Pearce	2024
RWFM Spring Graduate Student Travel Grant , Conner Ties	2024
COALS Merit Fellowship , Amanda Laboy	2023
RWFM Graduate Student Travel Grant , Conner Ties	2023
RWFM Graduate Student Travel Grant , David Pearce	2023
RWFM Undergraduate Student Excellence Award , Drake Dancila	2023
RWFM Undergraduate Student Excellence Award , Lulu Hoffman	2023

Investigator Grants & Contracts

Funded (Total: \$4,111,869, Lab Allocated: \$481,124)

9. **Luminant Environmental Research Program.** 2024-2027. Ecological impact of varying vegetation management strategies employed on solar farms. **\$227,644; Funded.** PI: Stacy Hines, Co-PIs: **Ty J. Werdel (Lab Allocated: \$45,529)**, Nuria Gomez-Casanovas, Morgan Treadwell, and Humberto Perotto.
8. **TAMU AgriLife Research Rangeland Ecology and Management Research Funding.** 2024-2026. Developing proxies for rangeland assessments using drones. **\$106,700; Funded.** PI: Humberto Perotto, Co-PIs: Sorin Popescu, **Ty J. Werdel (Lab Allocated: \$17,783)**, Jacob Lucero, Jeff Goodwin, and Morgan Treadwell.
7. **TAMU AgriLife Research Rangeland Ecology and Management Research Funding.** 2024-2026. Working towards healthy rangelands: understanding the factors limiting the adoption of grazing, fire, and wildfire management practices among exurban landowners. **\$106,448; Funded.** PI: David Matarrita, Co-PIs: Rafael Landeverde, **Ty J. Werdel (Lab Allocated: \$26,612)**, and Morgan Treadwell.
6. **TAMU AgriLife Research Animal Health and Disease Research Capacity Funding.** 2024-2025. The impact of osmotic stress on the catfish pathogen *Aeromonas hydrophila*: Implications for managing motile *Aeromonas* septicemia (MAS) in U.S. catfish farming. **\$100,000; Funded.** PI: Haitham Mohammed, Co-PI: **Ty J. Werdel (Lab Allocated: \$50,000)**.
5. **Private Donation.** 2023. Student-led population ecology of fox squirrels on the TAMU campus. **\$10,000; Funded.** PI: **Ty J. Werdel.**
4. **USFWS.** 2023-2027. Evaluation and mitigation for sensitive state threatened and endangered wildlife. **\$3,399,877; Funded.** Co-PIs: Marcus Blum, Paul Crump, Jacob Dykes, Whitney Gann, Andrew Gregory, Toby Hibbitts, Mathew

Kramm, Roel Lopez, Kevin Moczygemba, Michael Morrison, Humberto Perotto, Wady Ryberg, Danielle Walkup, Stephen Webb, and **Ty J. Werdel (Lab Allocated: \$170,000).**

3. **Department of Rangeland, Wildlife and Fisheries Management.** 2023-2024. Long-term wildlife monitoring for unmanaged rangelands transitioning to planned grazing management. **\$100,000; Funded.** PIs: Stephen L. Webb and **Ty J. Werdel.**
2. **Private Donation.** 2023. Long-term wildlife monitoring for unmanaged rangelands transitioning to planned grazing management. **\$1,200; Funded.** PI: **Ty J. Werdel.**
1. **Department of Rangeland, Wildlife and Fisheries Management.** 2023-2025. River otter (*Lontra canadensis*) population dynamics in Texas. **\$60,000; Funded.** PI: **Ty J. Werdel.**

Unfunded Proposals

3. **TAMU AgriLife Research Rangeland Ecology and Management Research Funding.** 2024-2026. Resource selection and spatial interactions of native, exotic, and domestic ungulates on Texas rangelands. **\$150,000; Not Funded.** PI: **Ty J. Werdel**, Co-PIs: Jacob E. Lucero, Humberto Perotto, and Jacob L. Dykes.
2. **National Science Foundation.** 2023-2025. Incorporating Native American partnerships and knowledge into Great Plains fire science. **\$199,404; Not Funded.** PI: David Matarrita, Co-PIs: Bradford Wilcox and **Ty J. Werdel.**
1. **USDA APHIS Wildlife Services.** 2023-2024. Spatial interactions and potential disease transmission of free-ranging native and exotic ungulates. **\$225,437; Not Funded.** PI: **Ty J. Werdel.**

Honors & Awards

Awards (\$121,150)

Community Building Through Mentorship Conference Panel Travel Grant, The Wildlife Society	2022
Agriculture Dean and Director's Award for Graduate Student Research, Kansas State University	2022
Advancing Agricultural Science Opportunities for Native Americans Scholarship, AISES	2021
Robert Nunemacher Scholarship, Kansas State University	2021
Advancing Agricultural Science Opportunities for Native Americans Research Award, AISES	2020
Advancing Agricultural Science Opportunities for Native Americans Scholarship, AISES	2020
Lighting the Pathway to Faculty Careers for Natives in STEM, AISES	2020
College of Agriculture Graduate Student Recognition of Achievement, Kansas State University	2020
AISES Together Towards Tomorrow T3 Scholarship, AISES	2020
Gamma Sigma Delta, Kansas State University	2019
AISES Travel Grant, AISES	2019
Advancing Agricultural Science Opportunities for Native Americans Scholarship, AISES	2019
Kansas State University Graduate Student Recognition of Achievement, Kansas State University	2019
College of Agriculture Graduate Student Recognition of Achievement, Kansas State University	2019
Inclusive Pedagogy Travel Grant, The Wildlife Society	2018
Life Membership Fund Scholarship, Wild Sheep Foundation	2018
Predoctoral Ford Fellowship, (Honorable Mention) Ford Foundation Fellowships Program	2018
Native Student Professional Development Grant, The Wildlife Society	2017
Launch Collegiate Business Pitch Competition, Kansas State University	2017
Native Student Professional Development Grant, The Wildlife Society	2016
Phi Kappa Phi Honor Society, South Dakota State University	2016
Excellence in Wildlife Management, Chadron State College	2013
Platinum Eagle Award, (Finalist) Chadron State College	2013
Gates Millennium Scholarship, Bill and Melinda Gates Foundation	2005
Scholastic Excellence in Engineering, University of Wyoming	2005
Scholars Stipend, University of Wyoming	2005
Computer Science, Engineering, and Mathematics Scholarship, University of Wyoming	2005
Honors Program, University of Wyoming	2005

Professional Service

Executive Service in Professional Organizations

Committee Member

PUBLICATION AWARDS

Texas Chapter - TWS

2024 – Present

Board Member

NATIVE PEOPLES' WILDLIFE MANAGEMENT WORKING GROUP

The Wildlife Society

2024 – Present

Grant Committee

NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT

The Wildlife Society

2023 – Present

Director

NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT

The Wildlife Society

2018 – 2023

Secretary/Treasurer

CENTRAL MOUNTAINS AND PLAINS SECTION

The Wildlife Society

2018 – 2021

Working Group Membership

Colleges and Universities Education Working Group, The Wildlife Society

2024 – Present

Rangeland Wildlife Working Group, The Wildlife Society

2018 – Present

Native Peoples' Wildlife Management Working Group, The Wildlife Society

2015 – Present

Student Development Working Group, The Wildlife Society

2013 – 2022

Chapter Membership

Southwest Section, The Wildlife Society

2023 – Present

Texas Chapter, The Wildlife Society

2023 – Present

Central Mountains and Plains Section, The Wildlife Society

2018 – 2022

Kansas Chapter, The Wildlife Society

2017 – 2022

South Dakota Chapter, The Wildlife Society

2014 – 2017

Nebraska Chapter, The Wildlife Society

2013 – 2014

Chadron State Student Chapter, The Wildlife Society

2012 – 2013

Professional Organization Membership

Society for Range Management

2023 – Present

Society for Advancement of Chicanos/Hispanics and Native Americans in Science

2021 – Present

Gamma Sigma Delta Honor Society

2019 – Present

American Indian Science and Engineering Society

2019 – Present

Swift Fox Conservation Team

2018 – Present

Phi Kappa Phi Honor Society

2016 – Present

Native American Fish and Wildlife Society

2015 – Present

Rocky Mountain Bighorn Society

2015 – 2017

Wild Sheep Foundation

2014 – 2020

American Society of Mammalogists

2013 – Present

The Wildlife Society

2013 – Present

External Journal Reviewer (11)

Ecology and Evolution

2024

Movement Ecology

2024

The Journal of Wildlife Management (2)

2023, 2023

Journal of Fish and Wildlife Management

2023

PeerJ (2)

2022, 2023

Frontiers in Ecology and the Environment

2023

Science

2023

Canadian Journal of Zoology

2022

Journal of Mammalogy

2021

University Service

Texas A&M University

Poster Presentation Judge, COALS Research Symposium

2024

Faculty Reviewer, Avilés-Johnson Fellowship Program

2024

Faculty Advisor, TAMU Student Chapter of The Wildlife Society

2023 – Present

Department

Outdoor Enterprise Management Search Committee, RWFM

2024 – Present

Graduate Student Space Assignment Committee, RWFM

2024

Outdoor Enterprise Management Curriculum Committee, RWFM

2023 – Present

Awards Committee, RWFM

2023 – Present

Undergraduate Committee, RWFM

2023 – Present

Caesar Kleberg Chair Search Committee, RWFM

2023 – 2024

Presentations

Contributed (*WERDEL WILDLFE LAB MEMBER)

43. Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. **2025**. Growth dynamics, morphological adaptation, biofilm formation, and virulence of *Aeromonas hydrophila* in response to osmotic stress. **48th Annual Eastern Fish Health Workshop, Grand Rapids, MI.**
42. Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. **2025**. An investigation of the osmotic effects on *Aeromonas hydrophila*, the causative agent of motile *Aeromonas* septicemia. **Texas Aquaculture Association Annual Meeting, Port Lavaca, TX.**
41. Ties, C.* , **T.J. Werdel**, and S. Webb. **2024**. Where have they all gone? Swift fox in Texas. **The Wildlife Society 31st Annual Conference, Baltimore, MD.**
40. Pearce, D.L.* , T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. **2024**. Comparing camera, helicopter, and drone surveys to estimate white-tailed deer (*Odocoileus virginianus*) abundance. **The Wildlife Society 31st Annual Conference, Baltimore, MD.**
39. Pearce, D.L.* and **T.J. Werdel**. **2024**. Tails on the Great Plains: Interspecific interactions between two cervids in western Kansas. **103rd Annual Meeting of the American Society of Mammalogists, Boulder, CO.**
38. Laboy, A.* , R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. **103rd Annual Meeting of the American Society of Mammalogists, Boulder, CO.**
37. Hoffman, M.G.* , W.E. Cook, H.L. Perotto, and **T.J. Werdel**. **2024**. Spatial interactions of axis and white-tailed deer in the Texas hill country. **103rd Annual Meeting of the American Society of Mammalogists, Boulder, CO.**
36. Laboy, A.* , R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. **Ecological Integration Symposium, College Station, TX.**
35. Laboy, A.* , R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. **Diversity in Science Symposium, College Station, TX.**
34. Laboy, A.* , R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. **TAMU Student Research Week, College Station, TX.**
33. Perez, K., H.L. Perotto, D. Bernal, S. Popescu, **T.J. Werdel**, J. Lucero, J. Goodwin, and M. Treadwell. **2024**. Leveraging drone technology for rangeland ecology and management. **Texas Section of the Society for Range Management Annual Symposium, Victoria, TX.**
32. Ramirez, D.* , S. Hines, **T.J. Werdel**, N. Gomez-Casanova, M. Treadwell, and H. Perotto. **2024**. Ecological and economic impact of varying vegetation management strategies employed on solar farms. **Texas A&M AgriLife Research and Extension Corpus Christi 50th Anniversary, Corpus Christi, TX.**

31. **Werdel, T.J.**, D. Matarrita-Cascante, and J.E. Lucero. **2024**. State of traditional ecological knowledge in the wildlife management profession. *Texas Chapter of The Wildlife Society Annual Conference, Houston, TX*.
30. Ties, C.* , S.L. Webb, and **T.J. Werdel**. **2024**. Mapping collared peccary habitat: species distribution modeling in the South Texas Plains and Trans-Pecos ecoregions. *Texas Chapter of The Wildlife Society Annual Conference, Houston, TX*.
29. Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M. Fidino, T. Gallo, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. **2024**. Habitat use by black-tailed jackrabbits and eastern cottontail rabbits in a multipredator landscape. *Kansas Natural Resources Conference, Manhattan, KS*.
28. Ties, C.* , S.L. Webb, and **T.J. Werdel**. **2023**. Using community science to determine collared peccary spatial distribution in Texas. *The Wildlife Society 30th Annual Conference, Louisville, KY*.
27. Ties, C.* , S.L. Webb, and **T.J. Werdel**. **2023**. Mapping collared peccary habitat: species distribution modeling in the south Texas plains. *Texas Section Society For Range Management, Bastrop, TX*.
26. Whitman, D.* and **T.J. Werdel**. **2023**. Campus fox squirrel presence influenced by fine-scale landscape characteristics. *Macalester College Summer Showcase, Saint Paul, MN*.
25. Dancila, A.D.* , **T.J. Werdel**, S.M. Chinn, J.C. Beasley, and S.L. Webb. **2023**. Analysis of reproductive parameters of wild pigs in southcentral Oklahoma. *RWFM Convocation, College Station, TX*.
24. Hoffman, M.G.* , M.D. Proctor, **T.J. Werdel**, and S.L. Webb. **2023**. Activity patterns and potential interactions among cattle, white-tailed deer, and wild pigs. *RWFM Convocation, College Station, TX*.
23. Whitman, D.* and **T.J. Werdel**. **2023**. Fine-scale landscape features influence fox squirrel presence on urban campus. *LAUNCH Summer Undergraduate Research Symposium, College Station, TX*.
22. Whitman, D.* and **T.J. Werdel**. **2023**. Campus fox squirrel presence influenced by fine-scale landscape characteristics. *College of Agriculture and Life Sciences Summer Undergraduate Research Symposium, College Station, TX*.
21. Hoffman, M.G.* , **T.J. Werdel**, M.D. Proctor, and S.L. Webb. **2023**. Activity patterns and potential interactions among cattle, white-tailed deer, and wild pigs. *Ecological Integration Symposium, College Station, TX*.
20. Dancila, A.D.* , **T.J. Werdel**, S.M. Chinn, J.C. Beasley, and S.L. Webb. **2023**. Analysis of reproductive parameters of wild pigs in southcentral Oklahoma. *TAMU Student Research Week, College Station, TX*.
19. Hoffman, M.G.* , M.D. Proctor, **T.J. Werdel**, and S.L. Webb. **2023**. Activity patterns and potential interactions among cattle, white-tailed deer, and wild pigs. *TAMU Student Research Week, College Station, TX*.
18. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, D.S. Sullins, and A.A. Ahlers. **2023**. Strategic grassland conservation for swift foxes in multi-use landscapes. *Texas Chapter of The Wildlife Society Annual Conference, Houston, TX*.
17. **Werdel, T.J.**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. **2023**. Landscape-scale effects structure carnivore communities in an agro-prairie ecosystem. *Kansas Natural Resources Conference, Manhattan, KS*.
16. **Werdel, T.J.**, C.W. Piper, M.S. Peek, A.M. Ricketts, D.S. Sullins, and A.A. Ahlers. **2023**. Strategic grassland conservation for swift foxes in multi-use landscapes. *Kansas Natural Resources Conference, Manhattan, KS*.
15. Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M. Fidno, A.M. Ricketts, and A.A. Ahlers. **2022**. Local-scale habitat structure mediates interactions between coyotes and lagomorphs. *101st Annual Meeting of the American Society of Mammalogists, Tucson, AZ*.
14. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2021**. Scale-specific landscape effects impose range-limiting constraints on the distribution of swift foxes. *The Wildlife Society 28th Annual Conference, Virtual*.
13. Piper, C.W, **T.J. Werdel**, A.M. Ricketts, D. Sullins, M. Peek, and A.A. Ahlers. **2021**. Landscape composition and proximity to water structure American badger distributions in shortgrass prairies. *The Wildlife Society 28th Annual Conference, Virtual*.
12. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2021**. Multiscale landscape effects impose range-limiting constraints on the distribution of swift fox. *Swift Fox Conservation Team Meeting, Virtual*.
11. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2021**. Multiscale landscape effects impose

range-limiting constraints on the distribution of swift fox. **Midwest Association of Fish and Wildlife Agencies Furbearer Workshop, Virtual.**

10. Piper, C.W, **T.J. Werdel**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2021.** Landscape composition and proximity to water structure American badger (*Taxidea taxus*) distributions in shortgrass prairies. **Midwest Association of Fish and Wildlife Agencies Furbearer Workshop, Virtual.**
9. **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2020.** Assessing factors that influence occupancy and colonization of swift fox in western Kansas. **Kansas Natural Resources Conference, Manhattan, KS.**
8. **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2019.** Assessing factors that shape carnivore diversity in shortgrass prairie ecosystems. **American Fisheries Society and The Wildlife Society 2019 Joint Annual Conference, Reno, NV.**
7. **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2019.** Carnivore richness and diversity is driven by landscape change in shortgrass prairie ecosystems. **99th Annual Meeting of the American Society of Mammalogists, Washington, D.C.**
6. **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2019.** Landscape effects on swift fox occupancy in western Kansas. **Southwest/Midwest Joint Furbearer Meeting, Enid, OK.**
5. **Werdel, T.J.**, A.M. Ricketts, and A.A. Ahlers. **2019.** Landscape change structures carnivore communities in shortgrass prairie ecosystems. **Kansas Natural Resources Conference, Manhattan, KS.**
4. **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2018.** Assessing the spatial distribution of swift fox in western Kansas. **The Wildlife Society 25th Annual Conference, Cleveland, OH.**
3. **Werdel, T.J.**, J.A. Jenks. **2018.** Survival of bighorn sheep in the Deadwood region of the Black Hills. **Nebraska/Central Mountains and Plains Section of The Wildlife Society Annual Meeting, Kearney, NE.**
2. **Werdel, T.J.**, J.A. Jenks, J. Kanta, and C. Lehman. **2016.** Evaluation of the Deadwood bighorn sheep herd translocation. **The Wildlife Society 23rd Annual Conference, Raleigh, NC.**
1. **Werdel, T.J.**. **2013.** Small mammal population and diversity in relation to prairie dog reintroduction sites. **Sevilleta LTER Research Experience for Undergraduates Summer Symposium, Socorro, NM.**

Invited

Effective Engagement Between Universities and Tribes

NATIONAL ASSOCIATION OF UNIVERSITY FISHERIES AND WILDLIFE PROGRAMS

Virtual Panel

2024

TEK: A Place-Based Perspective

FNR CONSERVATION CELEBRATION, PURDUE UNIVERSITY

West Lafayette, IN

2024

TEK of Wetlands

KANSAS STATE UNIVERSITY

Manhattan, KS

2023

TEK: A Place-Based Perspective

THE SACNAS DIVERSITY IN RESEARCH SYMPOSIUM

College Station, TX

2023

Community Building Through Mentorship Panel

THE WILDLIFE SOCIETY ANNUAL CONFERENCE

Spokane, WA

2022

Applied Wildlife Management: A Landscape Ecology Approach

TEXAS A&M UNIVERSITY

College Station, TX

2021

Traditional Ecological Knowledge: A Place-Based Perspective

TEXAS A&M UNIVERSITY

College Station, TX

2021

Distribution of Swift Fox in Kansas

KANSAS DEPARTMENT OF WILDLIFE, PARKS AND TOURISM

Emporia, KS

2021

Keynote Speaker: Youth Wildlife Conservation Experience

WILD SHEEP FOUNDATION SHEEP SHOW

Reno, NV

2019

Inclusive Pedagogy Student Panel

THE WILDLIFE SOCIETY ANNUAL CONFERENCE

Cleveland, OH

2018

Marlatt STEM Night MARLATT ELEMENTARY SCHOOL	Manhattan, KS 2018
Initiating a Student Chapter of The Wildlife Society HASKELL INDIAN NATIONS UNIVERSITY	Lawrence, KS 2018
Toyota STEM Speaker RED CLOUD INDIAN SCHOOL	Pine Ridge, SD 2016
Deadwood Bighorn Sheep Translocation SOUTH DAKOTA GAME, FISH, AND PARKS	Rapid City, SD 2015
Bighorn Sheep and Community Interaction KIWANIS CLUB	Lead, SD 2015
Graduate School Experience and Preparation CHADRON STATE COLLEGE	Chadron, NE 2015
Project WILD, Children and Wildlife RED CLOUD INDIAN SCHOOL	Pine Ridge, SD 2013

Guest Lectures

Professional Wildlife Certification RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Fall 2024
Foundations in Rangeland, Wildlife, and Fisheries Management RWFM 661 - TEXAS A&M UNIVERSITY	College Station, TX 2024
Ag Communication in Wildlife Research ALEC 350 - TEXAS A&M UNIVERSITY	College Station, TX 2024
Professional Wildlife Certification RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Spring 2024
Occupancy Models to Study Wildlife RWFM 689 - TEXAS A&M UNIVERSITY	College Station, TX 2024
Ag Communication in Wildlife Research ALEC 350 - TEXAS A&M UNIVERSITY	College Station, TX 2023
Professional Wildlife Certification RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Fall 2023
Occupancy Models to Study Wildlife RWFM 689 - TEXAS A&M UNIVERSITY	College Station, TX 2023
Professional Wildlife Certification RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Spring 2023
Why I hunt RWFM 489 - TEXAS A&M UNIVERSITY	College Station, TX 2023
Wildlife Professional Experience RWFM 305 - TEXAS A&M UNIVERSITY	College Station, TX 2022
Bighorn Sheep Capture and Monitoring Techniques WOEM 555 - KANSAS STATE UNIVERSITY	Manhattan, KS 2022
Traditional Ecological Knowledge (TEK) of Wetlands WOEM 561 - KANSAS STATE UNIVERSITY	Manhattan, KS 2021
Bighorn Sheep Capture and Monitoring Techniques WOEM 555 - KANSAS STATE UNIVERSITY	Manhattan, KS 2021
Wild Sheep Natural History WOEM 350 - KANSAS STATE UNIVERSITY	Manhattan, KS 2021
Bighorn Sheep Capture and Monitoring Techniques WOEM 555 - KANSAS STATE UNIVERSITY	Manhattan, KS 2020

Traditional Ecological Knowledge (TEK) of Wetlands

WOEM 561 - KANSAS STATE UNIVERSITY

Manhattan, KS

2019

Bighorn Sheep Monitoring

WOEM 555 - KANSAS STATE UNIVERSITY

Manhattan, KS

2018