



# 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

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### Peer-Reviewed (\*WERDEL WILDLIFE LAB MEMBER)

12. Rooney, B., ..., **T.J. Werdel**, ..., and W.J. McShea (> 100 Co-Authors). **In-Press**. SNAPSHOT USA 2019–2023: The first five years of data from a coordinated camera trap survey of the United States. **Global Ecology and Biogeography**.
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](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](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](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](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](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](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](https://www.bhpioneer.com/local_news/new-herd-of-bighorn-sheep-moved-to-hills/article_808292d8-b3c5-11e4-9b4d-432fad90ac10.html))

## Teaching Experience

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### 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

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### 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

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

## Student Honors & Awards

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

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

2023

2023

**Canadian Journal of Zoology**

2022

**Journal of Mammalogy**

2021

# University Service

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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

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*Contributed* (\*WERDEL WILDLIFE LAB MEMBER)

39. 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.***
38. 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.***
37. 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.***
36. 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.***
35. 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.***
34. Laboy, A.\*, R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. ***Ecological Integration Symposium, College Station, TX.***
33. Laboy, A.\*, R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. ***Diversity in Science Symposium, College Station, TX.***
32. Laboy, A.\*, R. Lopez, and **T.J. Werdel**. **2024**. Evaluating small mammal biodiversity using camera traps. ***TAMU Student Research Week, College Station, 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 Mammalo-**

*gists, 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*

<b>Effective Engagement Between Universities and Tribes</b> NATIONAL ASSOCIATION OF UNIVERSITY FISHERIES AND WILDLIFE PROGRAMS	<i>Virtual Panel</i> 2024
<b>TEK: A Place-Based Perspective</b> FNR CONSERVATION CELEBRATION, PURDUE UNIVERSITY	<i>West Lafayette, IN</i> 2024
<b>TEK of Wetlands</b> KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2023
<b>TEK: A Place-Based Perspective</b> THE SACNAS DIVERSITY IN RESEARCH SYMPOSIUM	<i>College Station, TX</i> 2023
<b>Community Building Through Mentorship Panel</b> THE WILDLIFE SOCIETY ANNUAL CONFERENCE	<i>Spokane, WA</i> 2022
<b>Applied Wildlife Management: A Landscape Ecology Approach</b> TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2021
<b>Traditional Ecological Knowledge: A Place-Based Perspective</b> TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2021
<b>Distribution of Swift Fox in Kansas</b> KANSAS DEPARTMENT OF WILDLIFE, PARKS AND TOURISM	<i>Emporia, KS</i> 2021
<b>Keynote Speaker: Youth Wildlife Conservation Experience</b> WILD SHEEP FOUNDATION SHEEP SHOW	<i>Reno, NV</i> 2019
<b>Inclusive Pedagogy Student Panel</b> THE WILDLIFE SOCIETY ANNUAL CONFERENCE	<i>Cleveland, OH</i> 2018
<b>Marlatt STEM Night</b> MARLATT ELEMENTARY SCHOOL	<i>Manhattan, KS</i> 2018
<b>Initiating a Student Chapter of The Wildlife Society</b> HASKELL INDIAN NATIONS UNIVERSITY	<i>Lawrence, KS</i> 2018
<b>Toyota STEM Speaker</b> RED CLOUD INDIAN SCHOOL	<i>Pine Ridge, SD</i> 2016
<b>Deadwood Bighorn Sheep Translocation</b> SOUTH DAKOTA GAME, FISH, AND PARKS	<i>Rapid City, SD</i> 2015
<b>Bighorn Sheep and Community Interaction</b> KIWANIS CLUB	<i>Lead, SD</i> 2015
<b>Graduate School Experience and Preparation</b> CHADRON STATE COLLEGE	<i>Chadron, NE</i> 2015

## *Guest Lectures*

<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> <i>Fall 2024</i>
<b>Foundations in Rangeland, Wildlife, and Fisheries Management</b> RWFM 661 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2024
<b>Ag Communication in Wildlife Research</b> ALEC 350 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2024
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> <i>Spring 2024</i>
<b>Occupancy Models to Study Wildlife</b> RWFM 689 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2024
<b>Ag Communication in Wildlife Research</b> ALEC 350 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2023
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> <i>Fall 2023</i>
<b>Occupancy Models to Study Wildlife</b> RWFM 689 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2023
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> <i>Spring 2023</i>
<b>Why I hunt</b> RWFM 489 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2023
<b>Wildlife Professional Experience</b> RWFM 305 - TEXAS A&M UNIVERSITY	<i>College Station, TX</i> 2022
<b>Bighorn Sheep Capture and Monitoring Techniques</b> WOEM 555 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2022
<b>Traditional Ecological Knowledge (TEK) of Wetlands</b> WOEM 561 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2021
<b>Bighorn Sheep Capture and Monitoring Techniques</b> WOEM 555 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2021
<b>Wild Sheep Natural History</b> WOEM 350 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2021
<b>Bighorn Sheep Capture and Monitoring Techniques</b> WOEM 555 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2020
<b>Traditional Ecological Knowledge (TEK) of Wetlands</b> WOEM 561 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2019
<b>Bighorn Sheep Monitoring</b> WOEM 555 - KANSAS STATE UNIVERSITY	<i>Manhattan, KS</i> 2018