



# 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)

13. **Werdel, T.J.**, M. Fidino, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. **In-Press**. Landscape composition mediates spatiotemporal interactions among sympatric canids in a prairie ecosystem. **Ecological Applications**.
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/jwmj.22512>

## Data Repositories

1. **Werdel, T.J. 2025**. SpatioTemporalCanids (Version 1.0.0). **Zenodo**. <https://doi.org/10.5281/zenodo.15191398>

## In-Revision/Review

1. 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**.

## 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=IwZXh0bgNhZWQCMTEAAR2XGXfnp\\_R-U-YDyr16AQMmBf1aUoPf-45C\\_18aMnwWeL-Ic3r2SAJ77Ys\\_aem\\_AV8Gks9w0tGnZqMjF7L5HG\\_F-1POM2arXOL1Dtu47ggTo4PV0GfAVvL87AHUi-KwDACbwi6gItJ7cx0MBewycppa](https://www.kbtx.com/2024/05/12/focus-four-am-students-study-squirrel-behavior/?fbclid=IwZXh0bgNhZWQCMTEAAR2XGXfnp_R-U-YDyr16AQMmBf1aUoPf-45C_18aMnwWeL-Ic3r2SAJ77Ys_aem_AV8Gks9w0tGnZqMjF7L5HG_F-1POM2arXOL1Dtu47ggTo4PV0GfAVvL87AHUi-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=social&utm\\_source=email&utm\\_campaign=user-share](https://www.bhpioneer.com/new-bighorn-sheep-herd-thriving/article_6b6c1d3e-2755-11e5-8f13-231b5dbc0d3d.html?utm_medium=social&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

### 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 (\*GRADUATED)

**Autumn Patterson**, Ph.D., TAMU RWFM

2025 – Present

**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

**Lulu Hoffman**, M.S., TAMU RWFM

2023 – Present

**Amanda Laboy**, M.S., TAMU RWFM

2023 – Present

**David Pearce**, M.S., TAMU RWFM

2023 – Present

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

2023 – 2025

**\*Conner Ties**, M.S., TAMU RWFM

2022 – 2024

### Undergraduate Student Research Advising

**Joshua Incardona**, B.S., TAMU RWFM

2025 – 2025

**\*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*

**Avilés-Johnson Fellowship**, Autumn Patterson

2025

**Gamma Sigma Delta Outstanding Master's Student Award**, David Pearce

2025

**RWFM Outstanding Master's Student of the Year Award**, David Pearce

2025

**TAMU Student Research Week Outstanding Poster Presentation**, Kayla Art

2025

**TAMU Student Research Week Outstanding Oral Presentation**, David Pearce

2025

**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 Outstanding Master's Student of the Year 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 Outstanding Undergraduate Student of the Year Award**, Drake Dancila

2023

**RWFM Outstanding Undergraduate Student of the Year 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)

<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*

<b>Proposal Reviewer</b> ADVANCING INFORMAL STEM LEARNING PROGRAM	<i>National Science Foundation</i> 2025 – Present
<b>Committee Member</b> PUBLICATION AWARDS	<i>Texas Chapter - TWS</i> 2024 – Present
<b>Board Member</b> NATIVE PEOPLES' WILDLIFE MANAGEMENT WORKING GROUP	<i>The Wildlife Society</i> 2024 – Present
<b>Grant Committee</b> NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT	<i>The Wildlife Society</i> 2023 – Present
<b>Director</b> NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT	<i>The Wildlife Society</i> 2018 – 2023
<b>Secretary/Treasurer</b> CENTRAL MOUNTAINS AND PLAINS SECTION	<i>The Wildlife Society</i> 2018 – 2021

### *Working Group Membership*

<b>Colleges and Universities Education Working Group</b> , The Wildlife Society	2024 – Present
<b>Rangeland Wildlife Working Group</b> , The Wildlife Society	2018 – Present
<b>Native Peoples' Wildlife Management Working Group</b> , The Wildlife Society	2015 – Present
<b>Student Development Working Group</b> , The Wildlife Society	2013 – 2022

### *Chapter Membership*

<b>Southwest Section</b> , The Wildlife Society	2023 – Present
<b>Texas Chapter</b> , The Wildlife Society	2023 – Present
<b>Central Mountains and Plains Section</b> , The Wildlife Society	2018 – 2022
<b>Kansas Chapter</b> , The Wildlife Society	2017 – 2022
<b>South Dakota Chapter</b> , The Wildlife Society	2014 – 2017
<b>Nebraska Chapter</b> , The Wildlife Society	2013 – 2014
<b>Chadron State Student Chapter</b> , The Wildlife Society	2012 – 2013

### *Professional Organization Membership*

<b>Society for Range Management</b>	2023 – Present
<b>Society for Advancement of Chicanos/Hispanics and Native Americans in Science</b>	2021 – Present
<b>Gamma Sigma Delta Honor Society</b>	2019 – Present
<b>American Indian Science and Engineering Society</b>	2019 – Present
<b>Swift Fox Conservation Team</b>	2018 – Present
<b>Phi Kappa Phi Honor Society</b>	2016 – Present
<b>Native American Fish and Wildlife Society</b>	2015 – Present
<b>Rocky Mountain Bighorn Society</b>	2015 – 2017
<b>Wild Sheep Foundation</b>	2014 – 2020
<b>American Society of Mammalogists</b>	2013 – Present
<b>The Wildlife Society</b>	2013 – Present

#### *External Journal Reviewer (13)*

<b>Ecological Applications</b>	2025
<b>The Journal of Wildlife Management (3)</b>	2023 (x2), 2025
<b>Ecology and Evolution</b>	2024
<b>Movement Ecology</b>	2024
<b>Journal of Fish and Wildlife Management</b>	2023
<b>PeerJ (2)</b>	2022, 2023
<b>Frontiers in Ecology and the Environment</b>	2023
<b>Science</b>	2023
<b>Canadian Journal of Zoology</b>	2022
<b>Journal of Mammalogy</b>	2021

## University Service

#### *Texas A&M University*

<b>Poster Presentation Judge</b> , COALS Research Symposium	2024
<b>Faculty Reviewer</b> , Avilés-Johnson Fellowship Program	2024
<b>Faculty Advisor</b> , TAMU Student Chapter of The Wildlife Society	2023 – Present

#### *Department*

<b>Boone and Crockett Chair Search Committee</b> , RWFM	2025 – Present
<b>Outdoor Enterprise Management Search Committee</b> , RWFM	2024 – 2025
<b>Graduate Student Space Assignment Committee</b> , RWFM	2024
<b>Outdoor Enterprise Management Curriculum Committee</b> , RWFM	2023 – Present
<b>Awards Committee</b> , RWFM	2023 – Present
<b>Undergraduate Committee</b> , RWFM	2023 – Present
<b>Caesar Kleberg Chair Search Committee</b> , RWFM	2023 – 2024

## Presentations

#### *Contributed (\*WERDEL WILDLFE LAB MEMBER)*

51. Art, K.\* and **T.J. Werdel**. **2025**. How flight behavior responses of eastern fox squirrels differ between rural and synurbanized populations in College Station, Texas. **TAMU Student Research Week, College Station, TX.**
50. Pearce, D.L.\* , T. Schafer, H. Perotto-Baldivieso, M.E. Blum, **T.J. Werdel**, and S. Webb. **2025**. How many deer live in the brush? Comparing camera and helicopter survey and modeling methods to estimate white-tailed deer abundance in south Texas. **TAMU Student Research Week, College Station, TX.**



49. Pearce, D.L.\* , T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. **2025**. Song of the South: Estimating northern bobwhite quail abundance using passive acoustic monitors. **Ecological Integration Symposium, College Station, TX.**
48. Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. **2025**. Exploring the impact of osmotic stress on virulent *Aeromonas hydrophila*, the causative agent of motile *Aeromonas septicemia* (MAS) in U.S. catfish aquaculture. **Aquaculture 2025, New Orleans, LA.**
47. Hoffman, M.G.\* , **T.J. Werdel**, J. Dykes, H.L. Perotto, and W. Cook. **2025**. Spatial interactions of axis and white-tailed deer in the Edwards Plateau Ecoregion of Texas. **Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.**
46. Pearce, D.L.\* , T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. **2025**. Did you hear that? Counting quail Using autonomous recorders and hierarchical models. **Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.**
45. Art, K.\* and **T.J. Werdel**. **2025**. How flight behavior responses of eastern fox squirrels differ between rural and synurbanized populations in College Station, Texas. **Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.**
44. Ramirez, D.\* , S. Hines, **T.J. Werdel**, N. Gomez-Casanovas, M. Treadwell and H. Perotto-Baldivieso. **2025**. Ecological impact of varying vegetation management strategies employed on solar rarms. **Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.**
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. ***Seville LTER Research Experience for Undergraduates Summer Symposium, Socorro, NM.***

### ***Invited***

#### **Perspectives on Tribal Stewardship**

UNIVERSITY OF GEORGIA PANEL DISCUSSION

Athens, GA

2025

#### **Wildlife Management Techniques in Shifting Landscapes**

CALVIN UNIVERSITY SEMINAR

Grand Rapids, MI

2025

#### **Mammals in a Changing North American Landscape**

RWFM GRADUATE SEMINAR SERIES

College Station, TX

2025

#### **Effective Engagement Between Universities and Tribes**

NATIONAL ASSOCIATION OF UNIVERSITY FISHERIES AND WILDLIFE PROGRAMS

Gainesville, FL

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**

RWFM GRADUATE SEMINAR SERIES

College Station, TX

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

<b>Distribution of Swift Fox in Kansas</b> KANSAS DEPARTMENT OF WILDLIFE, PARKS AND TOURISM	Emporia, KS 2021
<b>Keynote Speaker: Youth Wildlife Conservation Experience</b> WILD SHEEP FOUNDATION SHEEP SHOW	Reno, NV 2019
<b>Inclusive Pedagogy Student Panel</b> THE WILDLIFE SOCIETY ANNUAL CONFERENCE	Cleveland, OH 2018
<b>Marlatt STEM Night</b> MARLATT ELEMENTARY SCHOOL	Manhattan, KS 2018
<b>Initiating a Student Chapter of The Wildlife Society</b> HASKELL INDIAN NATIONS UNIVERSITY	Lawrence, KS 2018
<b>Toyota STEM Speaker</b> RED CLOUD INDIAN SCHOOL	Pine Ridge, SD 2016
<b>Deadwood Bighorn Sheep Translocation</b> SOUTH DAKOTA GAME, FISH, AND PARKS	Rapid City, SD 2015
<b>Bighorn Sheep and Community Interaction</b> KIWANIS CLUB	Lead, SD 2015
<b>Graduate School Experience and Preparation</b> CHADRON STATE COLLEGE	Chadron, NE 2015
<b>Project WILD, Children and Wildlife</b> RED CLOUD INDIAN SCHOOL	Pine Ridge, SD 2013

### *Guest Lectures*

<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Spring 2025
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Fall 2024
<b>Foundations in Rangeland, Wildlife, and Fisheries Management</b> RWFM 661 - TEXAS A&M UNIVERSITY	College Station, TX 2024
<b>Ag Communication in Wildlife Research</b> ALEC 350 - TEXAS A&M UNIVERSITY	College Station, TX 2024
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Spring 2024
<b>Occupancy Models to Study Wildlife</b> RWFM 689 - TEXAS A&M UNIVERSITY	College Station, TX 2024
<b>Ag Communication in Wildlife Research</b> ALEC 350 - TEXAS A&M UNIVERSITY	College Station, TX 2023
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Fall 2023
<b>Occupancy Models to Study Wildlife</b> RWFM 689 - TEXAS A&M UNIVERSITY	College Station, TX 2023
<b>Professional Wildlife Certification</b> RWFM 481 - TEXAS A&M UNIVERSITY	College Station, TX Spring 2023
<b>Why I hunt</b> RWFM 489 - TEXAS A&M UNIVERSITY	College Station, TX 2023
<b>Wildlife Professional Experience</b> RWFM 305 - TEXAS A&M UNIVERSITY	College Station, TX 2022
<b>Bighorn Sheep Capture and Monitoring Techniques</b> 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