

Ty J. Werdel

Assistant Professor

Department of Rangeland, Wildlife and Fisheries Management
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EDUCATION

5 OCTOBER 2025

Degrees

- 2022 **Ph.D. Horticulture and Natural Resources**, Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS
Dissertation: "Landscape effects on carnivore community dynamics in an agro-prairie ecosystem" – Advisor: Dr. Adam A. Ahlers
- 2017 **M.S. Wildlife Sciences**, Department of Natural Resource Management, South Dakota State University, Brookings, SD
Thesis: "Evaluation of the Deadwood bighorn sheep (*Ovis canadensis*) herd translocation" – Advisor: Dr. Jonathan A. Jenks
- 2013 **B.S. Rangeland and Wildlife Management**, Department of Applied Sciences, Chadron State College, Chadron, NE
Thesis: "Small mammal abundance and diversity in relation to prairie dog reintroduction sites"

Certifications

- 2024 **Certified Wildlife Biologist®**
The Wildlife Society
- 2024 **Certified Peer Reviewer**
Elsevier Researcher Academy
- 2014 -2021 **Esri Academy ArcGIS (9 Certifications)**
Environmental Systems Research Institute
- 2020 **Professional Certification in Data Analysis for Life Sciences (R)**
HarvardX, Harvard University
- 2020 **GTA Certificate of Achievement in Professional Development**
Teaching and Learning Center, Kansas State University
- 2020 **Faculty Exchange for Teaching Excellence**
Rekindling Your Love of Teaching, Kansas State University
- 2016 **Associate Wildlife Biologist®**
The Wildlife Society
- 2016 **Graduate Certification in Geospatial Technology**
South Dakota School of Mines and Technology, Rapid City, SD
- 2013 **Project WILD/Project WILD Aquatic**
www.projectwild.org, Association of Fish and Wildlife Agencies

PROFESSIONAL POSITIONS

- 2023-Present **Assistant Professor**, Department of Rangeland, Wildlife, and Fisheries Management, Texas A&M University, College Station, TX
Appointment: 60% Research, 30% Teaching, 10% Service

2022-2023 **Vice Chancellor's Postdoctoral Research Fellow**, Department of Rangeland, Wildlife, and Fisheries Management, Texas A&M University, College Station, TX
 2017-2022 **Graduate Research and Teaching Assistant**, Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS
 2014-2017 **Graduate Research and Teaching Assistant**, Department of Natural Resource Management, South Dakota State University, Brookings, SD
 2014 **GIS Technician**, North Platte Natural Resources District, Scottsbluff, NE
 2013 **Undergraduate Researcher**, Sevilleta LTER Research Experience, Socorro, NM
 2005-2013 **Construction Foreman**, Werdel Steel Construction, Chadron, NE
 1998-2005 **Construction Laborer**, Werdel Steel Construction, Chadron, NE

PUBLICATIONS (*Werdel Wildlife Lab **Undergraduate and *Graduate Ecologists*)

Peer-Reviewed

Journal Impact Factors (JIF) are sourced from Clarivate Journal Citation Reports for the publication year (2024 onwards uses 2023 JIF until updated data is available); $\bar{x}$ =3.175

13. | 2025 **Werdel, T.J.**, M. Fidino, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A Ahlers. Influence of landscape composition on spatiotemporal interactions between sympatric canids. *Ecological Applications*. <https://doi.org/10.1002/eap.70047> (Cover Article). JIF: 4.300
12. | 2025 Rooney, B., ..., **T.J. Werdel**, ..., and W.J. McShea (> 100 Co-Authors). 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>. JIF: 6.300
11. | 2024 **Whitman, D. and **T.J. Werdel**. Occurrence of fox squirrels influenced by fine-scale landscape characteristics on a college campus. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.70488>. JIF: 2.300
10. | 2024 Palomo-Muñoz, G., M. Fidino, **T.J. Werdel**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A Ahlers. Mesopredators have differing influences on prey habitat use and diet activity in a multipredator landscape. *Ecosphere*. <https://doi.org/10.1002/ecs2.70006>. JIF: 2.700
9. | 2024 **Werdel, T.J.**, D. Matarrita-Cascante, and J.E. Lucero. State of traditional ecological knowledge in the wildlife management profession. *The Journal of Wildlife Management*. <https://doi.org/10.1002/jwmg.22579>. JIF: 1.900
8. | 2023 **Werdel, T.J.**, C.W. Piper, A.M Ricketts, M.S. Peek, and A.A. Ahlers. Direct and indirect landscape-scale pathways structure carnivore communities in an agro-prairie ecosystem. *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gyad065>. JIF: 1.500
7. | 2023 **Werdel, T.J.**, J.A. Jenks, J.T. Kanta, C.P. Lehman, and T.J. Frink. 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>. JIF: 2.400
6. | 2023 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, D.S. Sullins, and A.A Ahlers. Strategic grassland conservation to improve conservation outcomes for swift foxes

- in a multi-use landscape. *Biological Conservation*.
<https://doi.org/10.1016/j.biocon.2022.109864>. JIF: 4.900
5. | 2022 Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A Ahlers. Spatiotemporal distributions of mammals occurring in an agro-prairie ecosystem. *Ecology*. <https://doi.org/10.1002/ecy.3945>. JIF: 4.800
 4. | 2022 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. Scale-specific landscape effects impose range-limiting constraints on the distribution of swift fox. *Landscape Ecology*. <https://doi.org/10.1007/s10980-022-01466-0>. JIF: 5.200
 3. | 2021 **Werdel, T.J.**, J.A. Jenks, J.T. Kanta, C.P. Lehman, and T.J. Frink. Space use and movement patterns of translocated bighorn sheep. *Mammalian Biology*.
<https://doi.org/10.1007/s42991-021-00107-4>. JIF: 1.989
 2. | 2019 **Werdel, T.J.**, J.A. Jenks, T.E. Besser, J.T. Kanta, C.P. Lehman, and T.J. Frink. Restoration of a bighorn sheep population impeded by *Mycoplasma ovipneumoniae* exposure. *Restoration Ecology*. <https://doi.org/10.1111/rec.13084> (Cover Article). JIF: 2.721
 1. | 2018 **Werdel, T.J.**, J.A. Jenks, T.E. Besser, J.T. Kanta, C.P. Lehman, and T.J. Frink. Survival of translocated bighorn sheep in the Deadwood region of the Black Hills, South Dakota. *Northwestern Naturalist*. <https://doi.org/10.1898/NWN18-06.1>. JIF: 0.259

Book Chapters

1. | 2022 Hessami, M.A., **T.J. Werdel**, S.J. Hoagland, and M.T. Kohl. 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, Iowa.

Extension

1. | 2025 *Art, K.M., R.R. Lopez, E.H. Silvy, J.L. Dykes, and **T.J. Werdel**. Eastern fox squirrel (*Sciurus niger*) ecology and management. *Texas A&M AgriLife Extension: RWFM-PU-426*.

Photo Galleries

1. | 2025 **Werdel, T.J.**, M. Fidino, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A Ahlers. Conservation shapes canid interactions in prairie landscapes. *Bulletin of the Ecological Society of America*. <https://doi.org/10.1002/bes2.70029>

Book Reviews

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

Data Repositories

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

Manuscripts in Revision/Review

- In Revision* Matarrita-Cascante, D., S. McCord, R. Landaverde, C. Veintimilla, M. Treadwell, **T.J. Werdel**, J.M. Likins, R. Muhl, and J.D. Ulrich-Schad. Amenity migration to working lands: factors influencing management decisions of beginning ranchers. *Agriculture and Human Values*.

- In Review* Piper, C.W., **T.J. Werdel**, M.S. Peek, A.M. Ricketts, D.S. Sullins, and A.A. Ahlers. Landscape composition and proximity to water structure American badger distributions in shortgrass prairies. *Wildlife Letters*.
- In Review* Matarrita-Cascante, D., **T.J. Werdel**, and C. Veintimilla. Rural migration, urban values: contemporary threats and opportunities for wildlife ecosystem management. *Wildlife Society Bulletin*.
- In Review* *Pearce, D. L., **T.J. Werdel**, and S.L. Webb. Avian acoustic data during a near-total solar eclipse in Texas. *Data*.

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-YDyr16AQMmBf1aUoPf45C_18aMnwWeLlc3r2SAJ77Ys_aem_AV8Gks9w0tGnZqMjF7L5HG_F-1POM2arX0LIDtu47ggTo4PV0GfAVvL87AHUi-KwDACbwi6gltJ7cx0MBeWycppa)
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&ss_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. Here's 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 SD gets bighorns to boost numbers. **GOHUNT**.
(<https://www.gohunt.com/read/south-dakota-uses-canadian-bighorn-sheep-to-boost-numbers#gs.7q5znx>)
4. | 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)
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

- 2022-Present **Texas A&M University**
Instructor
 Wildlife Tracks and Signs, RWFM 402 & RWFM 602
 Techniques of Wildlife Management, RWFM 408 & RWFM 608
 Special Topics in Traditional Ecological Knowledge, RWFM 689
- 2017-2022 **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
- 2014-2017 **South Dakota State University**
Graduate Teaching Assistant
 Introduction to Wildlife and Fisheries, WL 220

STUDENT MENTORSHIP ([†]Graduated)

Graduate Student Chair/Co-Chair Advising

- 2025-Present Hayden Huff, RWFM – Ph.D.
 2025-Present Autumn Patterson, RWFM – Ph.D.
 2025-Present Caleb Catlett, RWFM – M.S.
 2025-Present Angela Pennington, RWFM – M.N.R.
 2025-Present Ryland Wieding, RWFM – M.N.R.
 2025-Present Reece Allen, RWFM – Ph.D.
 2025-Present Daniel Ramirez, RWFM – Ph.D.
 2024-Present Else Praasterink, RWFM – M.S.
 2024-Present Cade Weiss, RWFM – M.N.R.
 2023-Present Lulu Hoffman, RWFM – M.S.
 2023-2025⁺ Amanda Laboy, RWFM – M.S.
 - Thesis: *Small- and meso-mammal community responses to woody plant encroachment in the post oak savannah of Texas.*
 2023-2025⁺ Kayla Art, RWFM – M.N.R.
 - Thesis: *Flight behavior responses of synurbanized eastern fox squirrels.*
 - Advised works published in *Texas A&M AgriLife Extension*.
 2023-2025⁺ David Pearce, RWFM – M.S.
 - Thesis: *Survey and statistical methods to estimate abundance of unmarked wildlife populations in South Texas.*
 2022-2024⁺ Conner Ties, RWFM – M.S.
 - Thesis: *Ecological niche modeling to improve understanding of collared peccary (*Dicotyles tajacu*) and swift fox (*Vulpes velox*) distributions in Texas.*

Undergraduate Student Research Advising

- 2025 Joshua Incardona, RWFM – B.S.
 2025 Jake Knott, RWFM – B.S.
 2025 Elina De La Cruz, RWFM – B.S.
 2023-2024⁺ Daniel Whitman, Macalester College – R.E.U.
 - Advised works published in *Ecology and Evolution*.
 2022-2023⁺ Drake Dancila, RWFM – B.S.
 2022-2023⁺ Lulu Hoffman, RWFM – B.S.

Secondary School Student Research Advising

- 2023-2024⁺ Sebastian Kuo, Carnegie Vanguard High School

Graduate Student Committee Member

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

Student Honors & Awards (Chair/Co-Chair Advisement = \$240,660 Awarded)

30. | 2025 Lechner Scholar Grant (\$1,000), **Autumn Patterson**
 29. | 2025 Avilés-Johnson Fellowship (\$149,000), **Autumn Patterson**
 28. | 2025 RWFM Outstanding Master's Student of the Year Award (\$250), **David Pearce**
 27. | 2025 TAMU Research Week Outstanding Poster Presentation (\$300), **Kayla Art**
 26. | 2025 TAMU Research Week Outstanding Oral Presentation (\$300), **David Pearce**
 25. | 2025 RWFM Spring Graduate Student Travel Grant (\$250), **Amanda Laboy**

- 24. | 2025 RWFM Spring Graduate Student Travel Grant (\$250), **Kayla Art**
- 23. | 2025 RWFM Spring Graduate Student Travel Grant (\$200), **David Pearce**
- 22. | 2025 RWFM Spring Graduate Student Travel Grant (\$400), **Lulu Hoffman**
- 21. | 2024 RWFM Fall Graduate Student Travel Grant (\$250), **Conner Ties**
- 20. | 2024 RWFM Fall Graduate Student Travel Grant (\$250), **David Pearce**
- 19. | 2024 Houston Safari Club Foundation Dan L. Duncan Scholarship (\$5,000), **Conner Ties**
- 18. | 2024 Houston Safari Club Foundation Dan L. Duncan Scholarship (\$6,000), **David Pearce**
- 17. | 2024 TAMU Graduate and Professional RAP Travel Award (\$500), **Lulu Hoffman**
- 16. | 2024 RWFM Fall Graduate Student Travel Grant (\$250), **David Pearce**
- 15. | 2024 RWFM Fall Graduate Student Travel Grant (\$250), **Conner Ties**
- 14. | 2024 RWFM Summer Graduate Student Travel Grant (\$500), **Amanda Laboy**
- 13. | 2024 RWFM Summer Graduate Student Travel Grant (\$500), **Lulu Hoffman**
- 12. | 2024 RWFM Summer² Graduate Student Travel Grant (\$250), **David Pearce**
- 11. | 2024 RWFM Summer¹ Graduate Student Travel Grant (\$250), **David Pearce**
- 10. | 2024 RWFM Outstanding Master's Student of the Year Award (\$250), **Conner Ties**
- 9. | 2024 American Society of Mammalogists Student Travel Award (\$600), **David Pearce**
- 8. | 2024 AgGIE Leadership Community Student Development Grant (\$1,000), **Amanda Laboy**
- 7. | 2024 RWFM Spring Graduate Student Travel Grant (\$250), **David Pearce**
- 6. | 2024 RWFM Spring Graduate Student Travel Grant (\$250), **Conner Ties**
- 5. | 2023 COALS Merit Fellowship (\$72,000), **Amanda Laboy**
- 4. | 2023 RWFM Fall Graduate Student Travel Grant (\$500), **Conner Ties**
- 3. | 2023 RWFM Fall Graduate Student Travel Grant (\$500), **David Pearce**
- 2. | 2023 RWFM Outstanding Undergraduate Student of the Year Award (\$815), **Drake Dancila**
- 1. | 2023 RWFM Outstanding Undergraduate Student of the Year Award (\$815), **Lulu Hoffman**

INVESTIGATOR GRANTS AND CONTRACTS (*Funded - \$4,909,508, Lab Allocated - \$807,855*)

- 11. | 2025 *Private Donation.. River otter (*Lontra canadensis*) ecology and conflict mitigation in Texas.* \$12,792. PI: **Ty J. Werdel**.
- 10. | 2025-'27 *East Foundation. Monitoring Phase 3: Refinements to East Foundation's comprehensive monitoring program for birds and small mammals.* \$784,847. Co-PIs: **Ty J. Werdel** (Lab Allocated: \$313,939), Ashley Long, and Humberto Perotto.
- 9. | 2024-'27 *Luminant Environmental Research Program. Ecological impact of varying vegetation management strategies employed on solar farms.* \$227,644. PI: Stacy Hines, Co-PIs: **Ty J. Werdel** (Lab Allocated: \$45,529), Nuria Gomez-Casanovas, Morgan Treadwell, and Humberto Perotto.
- 8. | 2024-'26 *TAMU AgriLife Research Rangeland Ecology and Management Research Funding. Developing proxies for rangeland assessments using drones.* \$106,700. PI: Humberto Perotto, Co-PIs: Sorin Popescu, **Ty J. Werdel** (Lab Allocated: \$17,783), Jacob Lucero, Jeff Goodwin, and Morgan Treadwell.
- 7. | 2024-'26 *TAMU AgriLife Research Rangeland Ecology and Management Research Funding. Working towards healthy rangelands: understanding the factors limiting the adoption of grazing, fire, and wildfire management practices among exurban landowners.* \$106,448. PI: David Matarrita, Co-PIs: Rafael Landeverde, **Ty J. Werdel** (Lab Allocated: \$26,612), and Morgan Treadwell.

6. | 2024-'25 *TAMU AgriLife Research Animal Health and Disease Research Capacity Funding*. 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. PI: Haitham Mohammed, Co-PI: **Ty J. Werdel** (Lab Allocated: \$50,000).
5. | 2023 *Private Donation*. Student-led population ecology of fox squirrels on the TAMU campus. \$10,000. PI: **Ty J. Werdel**.
4. | 2023-'27 *USFWS*. Evaluation and mitigation for sensitive state threatened and endangered wildlife. \$3,399,877. Co-PIs: Marcus Blum, Paul Crump, Jacob Dykes, Whitney Gann, Andrew Gregory, Toby Hibbitts, Mathew Kramm, Roel Lopez, Kevin Moczygemba, Michael Morrison, Humberto Perotto, Wade Ryberg, Danielle Walkup, Stephen Webb, and **Ty J. Werdel** (Lab Allocated: \$170,000).
3. | 2023-'24 *Department of Rangeland, Wildlife and Fisheries Management*. Long-term wildlife monitoring for unmanaged rangelands transitioning to planned grazing management. \$100,000. Co-PIs: Stephen L. Webb and **Ty J. Werdel**.
2. | 2023 *Private Donation*. Long-term wildlife monitoring for unmanaged rangelands transitioning to planned grazing management. \$1,200. PI: **Ty J. Werdel**.
1. | 2023-'25 *Department of Rangeland, Wildlife and Fisheries Management*. River otter (*Lontra canadensis*) population dynamics in Texas. \$60,000. PI: **Ty J. Werdel**.

HONORS AND AWARDS (*Awards - \$127,650*)

29. | 2025 **The Montague-CTE Scholar Award** – (\$6,500) Texas A&M University, Center for Teaching Excellence
28. | 2022 **Community Building Through Mentorship Conference Panel Travel Grant** – (\$650) The Wildlife Society
27. | 2022 **Agriculture Dean and Director's Award for Graduate Student Research** – (\$500) Kansas State University
26. | 2021 **Advancing Agricultural Science Opportunities for Native Americans Scholarship** – (\$1,500) American Indian Science and Engineering Society
25. | 2021 **Robert Nunemacher Scholarship** – (\$5,000) Kansas State University
24. | 2020 **Advancing Agricultural Science Opportunities for Native Americans Research Award** – (\$5,000) American Indian Science and Engineering Society
23. | 2020 **Advancing Agricultural Science Opportunities for Native Americans Scholarship** – (\$5,000) American Indian Science and Engineering Society
22. | 2020 **Lighting the Pathway to Faculty Careers for Natives in STEM** – (\$2,000) American Indian Science and Engineering Society
21. | 2020 **College of Agriculture Graduate Student Recognition of Achievement** – Kansas State University
20. | 2020 **AISES Together Towards Tomorrow T3 Scholarship** – (\$500) American Indian Science and Engineering Society
19. | 2019 **Gamma Sigma Delta** – The Honor Society of Agriculture, Kansas State University
18. | 2019 **AISES Travel Grant** – (\$1,000) American Indian Science and Engineering Society
17. | 2019 **Advancing Agricultural Science Opportunities for Native Americans Scholarship** – (\$5,000) American Indian Science and Engineering Society

16. | 2019 **Kansas State University Graduate Student Recognition of Achievement** – Kansas State University
15. | 2019 **College of Agriculture Graduate Student Recognition of Achievement** – Kansas State University
14. | 2018 **Inclusive Pedagogy Travel Grant** – (\$1,500) The Wildlife Society
13. | 2018 **Life Membership Fund Scholarship** – (\$5,000) Wild Sheep Foundation
12. | 2018 **Predoctoral Ford Fellowship Honorable Mention** – Ford Foundation Fellowships Program
11. | 2017 **Native Student Professional Development Grant** – (\$2,000) Native Peoples Wildlife Management Working Group, The Wildlife Society
10. | 2017 **Launch Collegiate Business Pitch Competition** – (\$1,500) Kansas State University
9. | 2016 **Native Student Professional Development Grant** – (\$2,000) Native Peoples Wildlife Management Working Group, The Wildlife Society
8. | 2016 **Phi Kappa Phi Honor Society** – South Dakota State University
7. | 2013 **Excellence in Wildlife Management** – Chadron State College
6. | 2013 **Platinum Eagle Award Finalist** – Chadron State College
5. | 2005 **Gates Millennium Scholarship** – (\$75,000) Bill & Melinda Gates Foundation
4. | 2005 **Scholastic Excellence in Engineering** – (\$3,000) University of Wyoming
3. | 2005 **Scholars Stipend** – (\$2,500) University of Wyoming
2. | 2005 **Computer Science, Engineering, and Mathematics Scholarship** – (\$2,500) University of Wyoming
1. | 2005 **Honors Program** – University of Wyoming

PROFESSIONAL SERVICE

Executive Service in Professional Organizations

- 2024-Present Publication Awards Committee Member – Texas Chapter, The Wildlife Society
- 2024-Present Board Member – Native Peoples' Wildlife Management Working Group, The Wildlife Society
- 2023-Present Grant Committee – Native Student Professional Development Grant, Native Peoples' Wildlife Management Working Group, The Wildlife Society
- 2025 Division of Research on Learning Proposal Reviewer – National Science Foundation
- 2018-2023 Director – Native Student Professional Development Grant, Native Peoples' Wildlife Management Working Group, The Wildlife Society
- 2018-2021 Secretary/Treasurer – Central Mountains and Plains Section, The Wildlife Society

Working Group Membership

- 2024-Present Colleges & University Education Working Group – The Wildlife Society
- 2018-Present Rangeland Wildlife Working Group – The Wildlife Society
- 2015-Present Native Peoples' Wildlife Management Working Group – The Wildlife Society
- 2013-2022 Student Development Working Group – The Wildlife Society

Chapter Membership

- 2023-Present Southwest Section of The Wildlife Society
- 2023-Present Texas Chapter of The Wildlife Society
- 2018-2022 Central Mountains and Plains Section of The Wildlife Society
- 2017-2022 Kansas Chapter of The Wildlife Society

2014-2017 South Dakota Chapter of The Wildlife Society
2013-2014 Nebraska Chapter of The Wildlife Society
2012-2013 CSC Wildlife Club, Student Chapter of The Wildlife Society

Professional Organization Membership

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

External Journal Reviewer (15)

2025 *Ecosphere*
2025 *Rangeland Ecology & Management*
2025 *Ecological Applications*
2025, '23 (x2) *The Journal of Wildlife Management* (3)
2024 *Ecology and Evolution*
2024 *Movement Ecology*
2023 *Journal of Fish and Wildlife Management*
2023, '22 *PeerJ* (2)
2023 *Frontiers in Ecology and the Environment*
2023 *Science*
2022 *Canadian Journal of Zoology*
2021 *Journal of Mammalogy*

UNIVERSITY SERVICE

Texas A&M University

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

Department

2025-Present Boone and Crockett Chair Search Committee, *RWFM*
2023-Present Outdoor Enterprise Management Curriculum Committee, *RWFM*
2023-Present Department Awards Committee, *RWFM*
2023-Present Undergraduate Committee, *RWFM*
2024-2025 Outdoor Enterprise Management Search Committee, *RWFM*
2024 Graduate Student Space Assignment Committee, *RWFM*
2023-2024 Caesar Kleberg Chair Search Committee, *RWFM*

PRESENTATIONS (Werdel Wildlife Lab **Undergraduate and *Graduate Ecologists)

Contributed

52. | 2025 *Erdogan, O., N.L. Elbanna, **T.J. Werdel**, and H. Mohammed. From a catfish pond to the ocean: adaptive Responses of *Aeromonas hydrophila* to high salinity. 48th Annual Eastern Fish Health Workshop, Grand Rapids, MI.
51. | 2025 *Art, K. and **T.J. Werdel**. 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. (Winner of Outstanding Poster Presentation)
50. | 2025 *Pearce, D.L., T. Schafer, H. Perotto-Baldivieso, M.E. Blum, **T.J. Werdel**, and S. Webb. 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. (Winner of Outstanding Oral Presentation)
49. | 2025 *Pearce, D.L., T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. Song of the South: Estimating northern bobwhite quail abundance using passive acoustic monitors. Ecological Integration Symposium, College Station, TX.
48. | 2025 *Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. 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. | 2025 *Hoffman, M.G., **T.J. Werdel**, J. Dykes, H.L. Perotto, and W. Cook. Spatial interactions of axis and whitetailed deer in the Edwards Plateau Ecoregion of Texas. Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.
46. | 2025 *Pearce, D.L., T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. Did you hear that? Counting quail Using autonomous recorders and hierarchical models. Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.
45. | 2025 *Art, K. and **T.J. Werdel**. 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. | 2025 *Ramirez, D., S. Hines, **T.J. Werdel**, N. Gomez-Casanovas, M. Treadwell and H. Perotto-Baldivieso. Ecological impact of varying vegetation management strategies employed on solar rarms. Texas Chapter of The Wildlife Society Annual Conference, Denton, TX.
43. | 2025 *Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. 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. | 2025 *Erdogan, O., M.I. Haque, H.A. Biswas, **T.J. Werdel**, and H. Mohammed. 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. | 2024 *Ties, C., **T.J. Werdel** and S.L. Webb. 2024. Where have they all gone? Swift fox in Texas. The Wildlife Society 31st Annual Conference, Baltimore, MD.

40. | 2024 *Pearce, D.L., T. Schafer, H. Perotto-Baldivieso, **T.J. Werdel**, and S. Webb. Comparing camera, helicopter, and drone surveys to estimate white-tailed deer (*Odocoileus virginianus*) abundance. The Wildlife Society 31st Annual Conference, Baltimore, MD.
39. | 2024 *Pearce, D.L. and **T.J. Werdel**. 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. | 2024 *Laboy, A., R. Lopez, and **T.J. Werdel**. Evaluating small mammal biodiversity using camera traps. 103rd Annual Meeting of the American Society of Mammalogists, Boulder, CO.
37. | 2024 *Hoffman, M.G., W.E. Cook, H.L. Perotto, and **T.J. Werdel**. 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. | 2024 *Laboy, A., R. Lopez, and **T.J. Werdel**. Evaluating small mammal biodiversity using camera traps. Ecological Integration Symposium, College Station, TX.
35. | 2024 *Laboy, A., R. Lopez, and **T.J. Werdel**. Evaluating small mammal biodiversity using camera traps. Diversity in Science Symposium, College Station, TX.
34. | 2024 *Laboy, A., R. Lopez, and **T.J. Werdel**. Evaluating small mammal biodiversity using camera traps. TAMU Student Research Week, College Station, TX.
33. | 2024 *Perez, K., H.L. Perotto, D. Bernal, S. Popescu, **T.J. Werdel**, J. Lucero, J. Goodwin, and M. Treadwell. Leveraging drone technology for rangeland ecology and management. Texas Section of the Society for Range Management Annual Symposium, Victoria, TX.
32. | 2024 *Ramirez, D., S. Hines, **T.J. Werdel**, N. Gomez-Casanova, M. Treadwell, and H. Perotto. 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. | 2024 **Werdel, T.J.**, D. Matarrita-Cascante, and J.E. Lucero. State of traditional ecological knowledge in the wildlife management profession. Texas Chapter of The Wildlife Society Annual Conference, Houston, TX.
30. | 2024 *Ties, C., S.L. Webb, and **T.J. Werdel**. 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. | 2024 Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M. Fidino, T. Gallo, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. Habitat use by black-tailed jackrabbits and eastern cottontail rabbits in a multipredator landscape. Kansas Natural Resources Conference, Manhattan, KS.
28. | 2023 *C. Ties, S.L. Webb, and **T.J. Werdel**. Using community science to determine collared peccary spatial distribution in Texas. The Wildlife Society 30th Annual Conference, Louisville, KY.
27. | 2023 *C. Ties, S.L. Webb, and **T.J. Werdel**. Mapping collared peccary habitat: species distribution modeling in the south Texas plains. Texas Section Society for Range Management, Bastrop, TX.

26. | 2023 **D. Whitman and **Werdel, T.J.** Campus fox squirrel presence influenced by fine-scale landscape characteristics. Macalester College Summer Showcase, Saint Paul, MN.
25. | 2023 **A.D. Dancila, **Werdel, T.J.**, S.M Chinn, J.C. Beasley, and S.L. Webb. Analysis of reproductive parameters of wild pigs in southcentral Oklahoma. RWFM Convocation, College Station, TX.
24. | 2023 **M.G. Hoffman, M.D. Proctor, Werdel, T.J., and S.L. Webb. Activity patterns and potential interactions among cattle, white-tailed deer, and wild pigs. RWFM Convocation, College Station, TX.
23. | 2023 **D. Whitman and **Werdel, T.J.** Fine-scale landscape features influence fox squirrel presence on urban campus. LAUNCH Summer Undergraduate Research Symposium, College Station, TX.
22. | 2023 **D. Whitman and **Werdel, T.J.** Campus fox squirrel presence influenced by fine-scale landscape characteristics. College of Agriculture and Life Sciences Summer Undergraduate Research Symposium, College Station, TX.
21. | 2023 **M.G. Hoffman, **Werdel, T.J.**, M.D. Proctor, and S.L. Webb. 2023. Activity patterns and potential interactions among cattle, white-tailed deer, and wild pigs. Ecological Integration Symposium 2023, College Station, TX.
20. | 2023 **A.D. Dancila, **Werdel, T.J.**, 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. | 2023 **M.G. Hoffman, M.D. Proctor, **Werdel, T.J.**, 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. | 2023 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, D.S. Sullins, and A.A. Ahlers. Strategic grassland conservation for swift foxes in multi-use landscapes. Texas Chapter of The Wildlife Society Annual Conference, Houston, TX.
17. | 2023 **Werdel, T.J.**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. Landscape-scale effects structure carnivore communities in an agro-prairie ecosystem. Kansas Natural Resources Conference, Manhattan, KS.
16. | 2023 **Werdel, T.J.**, C.W. Piper, M.S. Peek, A.M. Ricketts, D.S. Sullins, and A.A. Ahlers. Strategic grassland conservation for swift foxes in multi-use landscapes. Kansas Natural Resources Conference, Manhattan, KS.
15. | 2022 Palomo-Muñoz, G., **T.J. Werdel**, C.W. Piper, M. Fidno, A.M. Ricketts, and A.A. Ahlers. Local-scale habitat structure mediates interactions between coyotes and lagomorphs. 101st Annual Meeting of the American Society of Mammalogists, Tucson, AZ.
14. | 2021 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. Scale-specific landscape effects impose range-limiting constraints on the distribution of swift foxes. The Wildlife Society 28th Annual Conference. Virtual.
13. | 2021 Piper, C.W, **T.J. Werdel**, A.M. Ricketts, D. Sullins, M. Peek, and A.A. Ahlers. Landscape composition and proximity to water structure American badger distributions in shortgrass prairies. The Wildlife Society 28th Annual Conference. Virtual.

12. | 2021 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. Multiscale landscape effects impose range-limiting constraints on the distribution of swift fox. Swift Fox Conservation Team Meeting, Kansas, USA.
 11. | 2021 **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M. Peek, and A.A. Ahlers. Multiscale landscape effects impose range-limiting constraints on the distribution of swift fox. Midwest Association of Fish and Wildlife Agencies Furbearer Workshop. Michigan, USA.
 10. | 2021 Piper, C.W., **T.J. Werdel**, A.M. Ricketts, M. Peek, and A.A. Ahlers. Landscape composition and proximity to water structure American badger (*Taxidea taxus*) distributions in shortgrass prairies. Midwest Association of Fish and Wildlife Agencies Furbearer Workshop. Michigan, USA.
 9. | 2020 **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. Assessing factors that influence occupancy and colonization of swift fox in western Kansas. Kansas Natural Resources Conference. Manhattan, KS.
 8. | 2019 **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. Assessing factors that shape carnivore diversity in shortgrass prairie ecosystems. American Fisheries Society & The Wildlife Society 2019 Joint Annual Conference. Reno, NV.
 7. | 2019 **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. 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. | 2019 **Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. Landscape effects on swift fox occupancy in western Kansas. Southwest/Midwest Joint Furbearer Meeting. Enid, OK.
 5. | 2019 **Werdel, T.J.**, A.M. Ricketts, and A.A. Ahlers. Landscape change structures carnivore communities in shortgrass prairie ecosystems. Kansas Natural Resources Conference. Manhattan, KS.
 4. | 2018 **Werdel, T.J.**, A.M. Ricketts, and A.A. Ahlers. Assessing the spatial distribution of swift fox in western Kansas. The Wildlife Society 25th Annual Conference. Cleveland, OH.
 3. | 2018 **Werdel, T.J.**, J.A. Jenks. Survival of bighorn sheep in the Deadwood region of the Black Hills. Nebraska/Central Mountains & Plains Section of The Wildlife Society Annual Meeting. Kearney, NE.
 2. | 2016 **Werdel, T.J.**, J.A. Jenks, J. Kanta, and C. Lehman. Evaluation of the Deadwood bighorn sheep herd translocation. The Wildlife Society 23rd Annual Conference. Raleigh, NC.
 1. | 2013 **Werdel, T.J.** Small mammal population and diversity in relation to prairie dog reintroduction sites. Sevilleta LTER Research Experience for Undergraduates Summer Symposium. Socorro, NM.
- Invited**
21. | 2025 University of Chopinga Showcase, College Station, TX; "RWFM Wildlife Management"
 20. | 2025 University of Georgia Panel Discussion, Athens, GA; "Perspectives on Tribal Stewardship"

19. | 2025 Calvin University Seminar, Grand Rapids, MI; "Wildlife Management Techniques in Shifting Landscapes"
18. | 2025 RWFM Graduate Seminar Series, College Station, TX; "Mammals in a Changing North American Landscape"
17. | 2024 National Association of University Fisheries and Wildlife Programs, Gainesville, FL; "Effective Engagement Between Universities and Tribes"
16. | 2024 Purdue University, West Lafayette, IN; "TEK: A Place-Based Perspective"
15. | 2023 Kansas State University, Manhattan, KS; "TEK of Wetlands"
14. | 2023 The SACNAS Diversity in Research Symposium, College Station, TX; "TEK: A Place-Based Perspective"
13. | 2022 The Wildlife Society Annual Conference, Spokane, WA; "Community Building Through Mentorship Panel"
12. | 2021 Texas A&M University, College Station, TX; "Applied Wildlife Management: A Landscape Ecology Approach"
11. | 2021 Texas A&M University, College Station, TX; "Traditional Ecological Knowledge: A Place-Based Perspective"
10. | 2021 Kansas Department of Wildlife, Parks and Tourism, Emporia, KS; "Distribution of Swift Fox in Kansas"
9. | 2019 Wild Sheep Foundation Sheep Show, Reno, NV; "Keynote Speaker: Youth Wildlife Conservation Experience"
8. | 2018 The Wildlife Society Annual Conference, Cleveland, OH; "Inclusive Pedagogy Student Panel"
7. | 2018 Marlatt Elementary School, Manhattan, KS; "Marlatt STEM Night"
6. | 2018 Haskell Indian Nations University, Lawrence, KS; "Initiating a Student Chapter of The Wildlife Society"
5. | 2016 Red Cloud Indian School, Pine Ridge, SD; "Toyota STEM Speaker"
4. | 2015 South Dakota Game, Fish, and Parks, Rapid City, SD; "Deadwood Bighorn Sheep Translocation"
3. | 2015 Kiwanis Club, Lead, SD; "Bighorn Sheep and Community Interaction"
2. | 2015 Chadron State College, Chadron, NE; "Graduate School Experience and Preparation"
1. | 2013 Red Cloud Indian School, Pine Ridge, SD; "Project WILD, Children and Wildlife"

Guest Lectures

20. | 2025 Texas A&M University, RWFM 689; "Natural Resources Methods and Results"
19. | 2025 Texas A&M University, RWFM 481; "Professional Wildlife Certification"
18. | 2024 Texas A&M University, RWFM 481; "Professional Wildlife Certification"
17. | 2024 Texas A&M University, RWFM 661; "Foundations in RWFM"
16. | 2024 Texas A&M University, ALEC 350; "Ag Communication in Wildlife Research"
15. | 2024 Texas A&M University, RWFM 481; "Professional Wildlife Certification"
14. | 2024 Texas A&M University, RWFM 689; "Occupancy Models to Study Wildlife"
13. | 2023 Texas A&M University, ALEC 350; "Ag Communication in Wildlife Research"
12. | 2023 Texas A&M University, RWFM 481; "Professional Wildlife Certification"
11. | 2023 Texas A&M University, RWFM 689; "Occupancy Models to Study Wildlife"
10. | 2023 Texas A&M University, RWFM 481; "Professional Wildlife Certification"
9. | 2023 Texas A&M University, RWFM 489; "Why I hunt"

8. | 2022 Texas A&M University, RWFM 305; "Wildlife Professional Experience"
7. | 2022 Kansas State University, WOEM 555; "Bighorn Sheep Capture and Monitoring Techniques"
6. | 2021 Kansas State University, WOEM 561; "Traditional Ecological Knowledge (TEK) of Wetlands"
5. | 2021 Kansas State University, WOEM 555; "Bighorn Sheep Capture and Monitoring Techniques"
4. | 2021 Kansas State University, WOEM 350; "Wild Sheep Natural History"
3. | 2020 Kansas State University, WOEM 555; "Bighorn Sheep Capture and Monitoring Techniques"
2. | 2019 Kansas State University, WOEM 561; "Traditional Ecological Knowledge (TEK) of Wetlands"
1. | 2018 Kansas State University, WOEM 555; "Bighorn Sheep Monitoring"