



# Ty J. Werdel

VICE CHANCELLOR'S POSTDOCTORAL FELLOW

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 Wildlife Management and Landscape Ecology. This work addresses questions that provide insight into the relationships between wildlife, native environments, and contemporary human-modified landscapes. I am also interested in software programming to advance my professional acumen, with this CV being compiled with code.*

## 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

### Professional Certification in Data Analysis for Life Sciences (R)

HARVARDX, HARVARD UNIVERSITY

Online

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

Online

2016

### Graduate Certification in Geospatial Technology

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

Rapid City, SD

2016

### Esri Academy ArcGIS (9 Certifications)

ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE

Online

2021

### Project WILD/Project WILD Aquatic

ASSOCIATION OF FISH AND WILDLIFE AGENCIES

Chadron, NE

2013

## Employment

### Vice Chancellor's Postdoctoral Research Fellow

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

College Station, TX

2022 – Present

### 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

1998 – 2013

# Teaching Experience

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## Texas A&M University

CO-INSTRUCTOR

- Techniques of Wildlife Management, RWFM 408 & WFSC 638

College Station, TX

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

Manhattan, KS

2017 – 2022

## South Dakota State University

GRADUATE TEACHING ASSISTANT

- Introduction to Wildlife and Fisheries, WL 220

Brookings, SD

2014 – 2017

# Publications

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## Peer-Reviewed

5. Hessami, M.A., **T.J. Werdel**, S.J. Hoagland, and M.T. Kohl. **In-Press**. Melding Past, Present, and Future: The importance of tribal management in wildlife conservation and management. Chapter 1 in E. Gomez, C. Bishop, Ryder, and Organ eds. **Wildlife Management and Conservation in North America: An Overview**. Great River Learning of Dubuque, IA.
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. <https://doi.org/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>

## In-Revision/Review

6. Palomo-Muñoz, G, **T.J. Werdel**, C.W. Piper, M.S. Peek, A.M. Ricketts, and A.A. Ahlers. **In-Revision**. Spatiotemporal distributions of mammals occurring in an agro-prairie ecosystem. **Ecology**.
5. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. **In-Revision**. Landscape-scale effects structure carnivore communities in an agro-prairie ecosystem. **Journal of Mammalogy**.
4. Piper, C.W., **T.J. Werdel**, M.S. Peek, A.M. Ricketts, D.S. Sullins, and A.A. Ahlers. **In-Revision**. Spatiotemporal distributions of mammals occurring in an agro-prairie ecosystem. **Journal of Mammalogy**.
3. **Werdel, T.J.**, J.A. Jenks, J.T. Kanta, C.P. Lehman, and T.J. Frink. **In-Review**. Resource selection and herbaceous biomass at foraging sites of translocated bighorn sheep. **Rangeland Ecology and Management**.
2. **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**.
1. **Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, D.S. Sullins, and A.A. Ahlers. **In-Review**. Strategic grassland conservation to improve conservation outcomes for swift foxes in a multi-use landscape. **Biological Conservation**.

## Honors & Awards

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### *Total 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> , The Honor Society of Agriculture, 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

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### *Executive Service in Professional Organizations*

<b>Program Coordinator</b>	<i>The Wildlife Society</i>
NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT	2018 – Present
<b>Secretary/Treasurer</b>	<i>The Wildlife Society</i>
CENTRAL MOUNTAINS AND PLAINS SECTION	2018 – 2021

### *Working Group Membership*

<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 – Present

### *Chapter Membership*

<b>Central Mountains and Plains Section</b> , The Wildlife Society	2018 – Present
<b>Kansas Chapter</b> , The Wildlife Society	2015 – Present
<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 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

Journal of Mammalogy, PeerJ, Canadian Journal of Zoology

## Presentations

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### Contributed

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. *South-west/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*

### **Bighorn Sheep Capture and Monitoring Techniques**

KANSAS STATE UNIVERSITY

Manhattan, KS

2022

### **Applied Wildlife Management: A Landscape Ecology Approach**

TEXAS A&M UNIVERSITY

College Station, TX

2021

### **Traditional Ecological Knowledge: A Place-Based Perspective**

TEXAS A&M UNIVERSITY

College Station, TX

2021

### **Distribution of Swift Fox in Kansas**

KANSAS DEPARTMENT OF WILDLIFE, PARKS AND TOURISM

Emporia, KS

2021

### **Traditional Ecological Knowledge (TEK) of Wetlands**

KANSAS STATE UNIVERSITY

Manhattan, KS

2021

### **Bighorn Sheep Capture and Monitoring Techniques**

KANSAS STATE UNIVERSITY

Manhattan, KS

2021

### **Wild Sheep Natural History**

KANSAS STATE UNIVERSITY

Manhattan, KS

2021

### **Bighorn Sheep Capture and Monitoring Techniques**

KANSAS STATE UNIVERSITY

Manhattan, KS

2020

### **Traditional Ecological Knowledge (TEK) of Wetlands**

KANSAS STATE UNIVERSITY

Manhattan, KS

2019

### **Keynote Speaker: Youth Wildlife Conservation Experience**

WILD SHEEP FOUNDATION SHEEP SHOW

Reno, NV

2019

### **Inclusive Pedagogy Student Panel**

THE WILDLIFE SOCIETY ANNUAL CONFERENCE

Cleveland, OH

2018

### **Bighorn Sheep Monitoring**

KANSAS STATE UNIVERSITY

Manhattan, KS

2018

### **Marlatt STEM Night**

MARLATT ELEMENTARY SCHOOL

Manhattan, KS

2018

### **Initiating a Student Chapter of The Wildlife Society**

HASKELL INDIAN NATIONS UNIVERSITY

Lawrence, KS

2018

### **Toyota STEM Speaker**

RED CLOUD INDIAN SCHOOL

Pine Ridge, SD

2016

### **Deadwood Bighorn Sheep Translocation**

SOUTH DAKOTA GAME, FISH, AND PARKS

Rapid City, SD

2015

### **Bighorn Sheep and Community Interaction**

KIWANIS CLUB

Lead, SD

2015

### **Graduate School Experience and Preparation**

CHADRON STATE COLLEGE

Chadron, NE

2015

### **Project WILD, Children and Wildlife**

RED CLOUD INDIAN SCHOOL

Pine Ridge, SD

2013