



# 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

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 and C. Bishop, eds. Wildlife Management and Conservation in North America: An Overview.

**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>

**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>

**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/10.1111/rec.13084> (Cover Article)

**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

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*.

**Werdel, T.J.**, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. Landscape-scale effects structure carnivore communities in an agro-prairie ecosystem. *Journal of Mammalogy*.

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. *Journal of Mammalogy*.

## In-Review

**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*.

**Werdel, T.J.**, M. Fidino, C.W. Piper, A.M. Ricketts, M.S. Peek, and A.A. Ahlers. Landscape composition mediates spatiotemporal interactions among sympatric canids in a prairie ecosystem. *Ecological Applications*.

**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*.

## Honors & Awards

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*Total Scholarship (\$121,150)*

<b>Community Building Through Mentorship Conference Panel Travel Grant</b>	<i>The Wildlife Society</i>
\$650	2022
<b>Agriculture Dean and Director's Award for Graduate Student Research</b>	<i>Kansas State University</i>
\$500	2022
<b>Advancing Agricultural Science Opportunities for Native Americans Scholarship</b>	<i>AISES</i>
\$1,500	2021
<b>Robert Nunemacher Scholarship</b>	<i>Kansas State University</i>
\$5,000	2021
<b>Advancing Agricultural Science Opportunities for Native Americans Research Award</b>	<i>AISES</i>
\$5,000	2020
<b>Advancing Agricultural Science Opportunities for Native Americans Scholarship</b>	<i>AISES</i>
\$5,000	2020
<b>Lighting the Pathway to Faculty Careers for Natives in STEM</b>	<i>AISES</i>
\$2,000	2020
<b>College of Agriculture Graduate Student Recognition of Achievement</b>	<i>Kansas State University</i>
	2020
<b>AISES Together Towards Tomorrow T3 Scholarship</b>	<i>AISES</i>
\$500	2020
<b>Gamma Sigma Delta</b>	<i>Kansas State University</i>
	2019
<b>AISES Travel Grant</b>	<i>AISES</i>
\$1,000	2019
<b>Advancing Agricultural Science Opportunities for Native Americans Scholarship</b>	<i>AISES</i>
\$5,000	2019
<b>Kansas State University Graduate Student Recognition of Achievement</b>	<i>Kansas State University</i>
	2019
<b>College of Agriculture Graduate Student Recognition of Achievement</b>	<i>Kansas State University</i>
	2019
<b>Inclusive Pedagogy Travel Grant</b>	<i>The Wildlife Society</i>
\$1,500	2018
<b>Life Membership Fund Scholarship</b>	<i>Wild Sheep Foundation</i>
\$5,000	2018
<b>Predoctoral Ford Fellowship</b>	<i>Ford Foundation</i>
HONORABLE MENTION	2018
<b>Native Student Professional Development Grant</b>	<i>The Wildlife Society</i>
\$2,000	2017
<b>Launch Collegiate Business Pitch Competition</b>	<i>Kansas State University</i>
\$1,500	2017
<b>Native Student Professional Development Grant</b>	<i>The Wildlife Society</i>
\$2,000	2016
<b>Phi Kappa Phi Honor Society</b>	<i>South Dakota State University</i>
	2016
<b>Excellence in Wildlife Management</b>	<i>Chadron State College</i>
	2013
<b>Platinum Eagle Award</b>	<i>Chadron State College</i>
FINALIST	2013

<b>Gates Millennium Scholarship</b>	Bill & Melinda Gates Foundation
\$75,000	2005
<b>Scholastic Excellence in Engineering</b>	University of Wyoming
\$3,000	2005
<b>Scholars Stipend</b>	University of Wyoming
\$2,500	2005
<b>Computer Science, Engineering, and Mathematics Scholarship</b>	University of Wyoming
\$2,500	2005
<b>Honors Program</b>	University of Wyoming
	2005

## Professional Service

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*External Journal Reviewer*

**Journal of Mammalogy, PeerJ, Canadian Journal of Zoology**

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*Executive Service in Professional Organizations*

**Program Coordinator**

NATIVE STUDENT PROFESSIONAL DEVELOPMENT GRANT, NATIVE PEOPLES' WILDLIFE MANAGEMENT WORKING GROUP

*The Wildlife Society*

2018 – Present

**Secretary/Treasurer**

CENTRAL MOUNTAINS AND PLAINS SECTION

*The Wildlife Society*

2018 – 2021

*Working Group Membership*

**Rangeland Wildlife Working Group**

*The Wildlife Society*

2018 – Present

**Native Peoples' Wildlife Management Working Group**

*The Wildlife Society*

2015 – Present

**Student Development Working Group**

*The Wildlife Society*

2013 – Present

*Chapter Membership*

**Central Mountains and Plains Section**

*The Wildlife Society*

2018 – Present

**Kansas Chapter**

*The Wildlife Society*

2017 – Present

**South Dakota Chapter**

*The Wildlife Society*

2014 – 2017

**Nebraska Chapter**

*The Wildlife Society*

2013 – 2014

**Chadron State College Wildlife Club**

*The Wildlife Society*

2012 – 2013

*Professional Organization Membership*

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

2021 – Present

**Gamma Sigma Delta Honor Society**

2019 – Present

**American Indian Science and Engineering Society**

2019 – Present

## Swift Fox Conservation Team

2018 – Present

## Phi Kappa Phi Honor Society

2016 – Present

## Native American Fish and Wildlife Society

2025 – Present

## Rocky Mountain Bighorn Society

2015 – 2017

## Wild Sheep Foundation

2014 – Present

## American Society of Mammalogists

2013 – Present

## The Wildlife Society

2013 – Present

## Presentations

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### *Contributed*

**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.

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.

**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, Kansas, USA.

**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. Michigan, USA.

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. Michigan, USA.

**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.

**Werdel, T.J.**, A.M. Ricketts, M. Peek, and A.A. Ahlers. **2019**. Assessing factors that shape carnivore diversity in short-grass prairie ecosystems. American Fisheries Society & The Wildlife Society Joint Annual Conference. Reno, NV.

**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.

**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.

**Werdel, T.J.**, A.M. Ricketts, and A.A. Ahlers. **2019**. Landscape change structures carnivore communities in short-grass prairie ecosystems. Kansas Natural Resources Conference. Manhattan, KS.

**Werdel, T.J.**, A.M. Ricketts, and A.A. Ahlers. **2018**. Assessing the spatial distribution of swift fox in western Kansas. The Wildlife Society 25th Annual Conference. Cleveland, OH.

**Werdel, T.J.**, J.A. Jenks. **2018**. 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.

**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.

**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*

- 2021** - Texas A&M University, College Station, TX; “Applied Wildlife Management: A Landscape Ecology Approach”
- 2021** - Texas A&M University, College Station, TX; “Traditional Ecological Knowledge: A Place-Based Perspective”
- 2021** - Kansas Department of Wildlife, Parks and Tourism, Emporia, KS; “Distribution of Swift Fox in Kansas”
- 2021** - Kansas State University, Manhattan, KS; “Traditional Ecological Knowledge (TEK) of Wetlands”
- 2021** - Kansas State University, Manhattan, KS; “Bighorn Sheep Capture and Monitoring Techniques”
- 2021** - Kansas State University, Manhattan, KS; “Wild Sheep Natural History”
- 2020** - Kansas State University, Manhattan, KS; “Bighorn Sheep Capture and Monitoring Techniques”
- 2019** - Kansas State University, Manhattan, KS; “Traditional Ecological Knowledge (TEK) of Wetlands”
- 2019** - Wild Sheep Foundation Sheep Show, Reno, NV; “Keynote Speaker: Youth Wildlife Conservation Experience”
- 2018** - The Wildlife Society Annual Conference, Cleveland, OH; “Inclusive Pedagogy Student Panel”
- 2018** - Kansas State University, Manhattan, KS; “Bighorn Sheep Monitoring”
- 2018** - Marlatt Elementary School, Manhattan, KS; “Marlatt STEM Night”
- 2018** - Haskell Indian Nations University, Lawrence, KS; “Initiating a Student Chapter of The Wildlife Society”
- 2016** - Red Cloud Indian School, Pine Ridge, SD; “Toyota STEM Speaker”
- 2015** - South Dakota Game, Fish, and Parks, Rapid City, SD; “Deadwood Bighorn Sheep Translocation”
- 2015** - Kiwanis Club, Lead, SD; “Bighorn Sheep and Community Interaction”
- 2015** - Chadron State College, Chadron, NE; “Graduate School Experience and Preparation”
- 2013** - Red Cloud Indian School, Pine Ridge, SD; “Project WILD, Children and Wildlife”