

CRYSTAL J. STILES, PH.D.
Applied Climatologist, NOAA High Plains Regional Climate Center
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EDUCATION

- Ph.D. *Natural Resource Sciences with specialization in Climate Assessment and Impacts*, School of Natural Resources, University of Nebraska-Lincoln (2014)
- M.S. *Geoscience with emphasis in Meteorology-Climatology, certificate in Geographic Information Systems*, Department of Geography & Geology, Western Kentucky University (2009)
- B.S. *Geography with emphasis in Meteorology-Climatology*, Department of Geography & Geology, Western Kentucky University (2005)

PROFESSIONAL EXPERIENCE

- 2018-present *Adjunct Professor*, Department of Geography & Geology, Western Kentucky University
- 2017-present *Applied Climatologist and Assistant Geoscientist*, NOAA High Plains Regional Climate Center, School of Natural Resources, University of Nebraska-Lincoln
- 2014-2017 *Applied Climatologist and Postdoctoral Research Associate*, NOAA High Plains Regional Climate Center, School of Natural Resources, University of Nebraska-Lincoln
- 2013-2014 *Instructor*, Department of Geography & Geology, Western Kentucky University
- 2009-2013 *Graduate Research Assistant*, School of Natural Resources, University of Nebraska-Lincoln
- 2008-2009 *Instructor*, Department of Geography & Geology, Western Kentucky University
- 2006-2008 *Graduate Research Assistant*, Department of Geography & Geology, Western Kentucky University
- 2004-2006 *Meteorology Lab Instructor and College Heights Weather Station Observer*, Department of Geography & Geology, Western Kentucky University

GRANTS AND CONTRACTS

- Stiles, C.J. (Co-Principal Investigator), *High Plains Regional Climate Center*, contract awarded by the U.S. Department of Commerce – National Oceanic and Atmospheric Administration, \$562,500, 6 March 2020 – 5 March 2021.
- Stiles, C.J. (Principal Investigator), *Great Plains Tribal Water Alliance Climate Partnership: Development of Water Resources Workshop for Tribes to Build Technical Capacity to Prepare for and Mitigate Flooding* (\$38,158). Submitted to the Bureau of Indian Affairs Program to Support Tribal Resilience Grants and Ocean and Coastal Management and Planning Grants – Federally Recognized Tribes FY2020 Competition, awaiting funding announcement.
- Stiles, C.J. (Principal Investigator), *Ute Tribal Climate Adaptation Workshop Series* (\$19,034). Submitted to the Bureau of Indian Affairs Program to Support Tribal Resilience Grants

and Ocean and Coastal Management and Planning Grants – Federally Recognized Tribes FY2020 Competition, awaiting funding announcement.

Stiles, C.J. (Principal Investigator), *North Dakota and South Dakota Tribal Adaptation Planning* (\$14,908). Submitted to the Bureau of Indian Affairs Tribal Resilience and Ocean and Coastal Management and Planning FY2019 Competition, awarded but paperwork is being processed, project period is pending.

Stiles, C.J. (Co-Principal Investigator), *RCC-NWS Climate Services Partnership* (\$13,941). National Oceanic and Atmospheric Administration, 26 August 2019 – 25 August 2020.

Stiles, C.J. (Co-Principal Investigator), *High Plains Regional Climate Center*, contract awarded by the U.S. Department of Commerce – National Oceanic and Atmospheric Administration, \$562,500, 6 March 2019 – 5 March 2020.

Stiles, C.J. (Collaborator), *Drought Adaptation Plans to Build Tribal Resilience (Standing Rock Sioux Tribe and Flandreau Santee Sioux Tribe)* (\$150,000). Bureau of Indian Affairs, 1 February 2019 – 31 December 2019.

Stiles, C.J. (Collaborator), *Drought Adaptation Plans to Build Tribal Resilience (Rosebud Sioux Tribe and Oglala Sioux Tribe)* (\$150,000). Bureau of Indian Affairs, 1 February 2019 – 31 December 2019.

Stiles, C.J. (Principal Investigator), *Kansas, Nebraska, and Iowa Tribes Adaptation Planning* (\$14,768). Bureau of Indian Affairs, 1 October 2018 – 30 September 2019.

Stiles, C.J. (Collaborator), *Wind River Drought Adaptation Planning* (\$108,993). Bureau of Indian Affairs, 1 October 2018 – 28 February 2021.

Stiles, C.J. (Co-Principal Investigator), *High Plains Regional Climate Center*, contract awarded by the U.S. Department of Commerce – National Oceanic and Atmospheric Administration, \$562,500, 6 March 2018 – 5 March 2019.

Stiles, C.J. (Co-Principal Investigator), *Drought Planning Using Community Threat and Hazard Identification and Risk Assessment*, grant awarded by the National Oceanic and Atmospheric Administration Sectoral Applications Research Program, \$198,343, 1 July 2017 – 31 January 2019.

Stiles, C.J. (Co-Principal Investigator), *HPRCC: Tribal Climate Summaries*, contract awarded by the U.S. Department of Commerce – National Oceanic and Atmospheric Administration, \$60,000, 17 November 2016 – 17 August 2017.

Stiles, C.J. (Principal Investigator), *Great Plains Tribal Water Alliance Climate Partnership: Development of Water Resource Vulnerability Assessments to Build Tribal Resilience*, subcontract awarded by the Great Plains Tribal Water Alliance (funding provided by the Bureau of Indian Affairs), \$29,983, project period 1 October 2016 – 30 September 2018.

Stiles, C.J. (Principal Investigator), *Great Plains Tribal Water Alliance Climate Partnership: Development of Water Resource Vulnerability Assessments Process and Guidebook*,

subcontract awarded by the Great Plains Tribal Water Alliance (funding provided by the Bureau of Indian Affairs), \$11,999, project period 1 October 2016 – 30 September 2018.

Stiles, C.J. (Co-Principal Investigator), *High Plains Regional Climate Center*, contract awarded by the U.S. Department of Commerce – National Oceanic and Atmospheric Administration, \$898,437, 1 August 2016 – 5 March 2018.

Stiles, C.J. (Collaborator), *The Wind River Indian Reservation's Vulnerability to the Impacts of Drought and the Development of Decision Tools to Support Drought Preparedness*, grant awarded by the North Central Climate Science Center at Colorado State University, \$393,618, 1 June 2015 – 31 May 2017.

PUBLICATIONS

Peer-Reviewed Publications

Stiles, C.J., N.A. Umphlett, and M. Cottenoir (accepted): Building Adaptive Capacity in Tribal Communities of the Missouri River Basin to Manage Drought and Climate Extremes: A Case Study from the Wind River Indian Reservation. Submitted to *Journal of Indigenous Research*.

Flanagan, P.X., R. Mahmood, N.A. Umphlett, E. Hacker, C. Ray, W. Sorensen, M. Shulski, **C.J. Stiles**, D. Pearson, and P. Fajman (accepted): A Hydrometeorological Assessment of the Historic 2019 Flood of Nebraska and Iowa. *Bulletin of the American Meteorological Society*.

Umphlett, N.A., W. Pettee, B. Sorensen, and **C.J. Stiles**, 2019: Enhancing ACIS Maps - Increasing Usability through a GIS Portal. *Bulletin of the American Meteorological Society*, 100, 23-27.

Wickham, E., D. Bathke, T. Abdel-Monem, T. Bernadt, D. Bulling, L. Pytlik-Zillig, **C.J. Stiles**, and N. Wall, 2019: Conducting a drought-specific THIRA (Threat and Hazard Identification and Risk Assessment): A powerful tool for integrating all-hazard mitigation and drought planning efforts to increase drought mitigation quality. *International Journal of Disaster Risk Reduction*, 39, <https://doi.org/10.1016/j.ijdr.2019.101227>.

McNeeley, S.M., C.F. Dewes, **C.J. Stiles**, T.A. Beeton, I. Rangwala, M.T. Hobbins, and C.L. Knutson, 2017: Anatomy of an Interrupted Irrigation Season: Micro-Drought at the Wind River Indian Reservation. *Climate Risk Management*, early online release, <https://doi.org/10.1016/j.crm.2017.09.004>.

Stiles, C.J., and M.J. Hayes, 2017: Recommendations for Collaborative Drought Management in Transboundary River Basins. *Water Resources Impact*, 19(3), 17-19.

Stiles, C.J., N. Umphlett, J. Rattling Leaf Sr., M.D. Shulski, D. Kluck, M. Hayes, and C. McNutt, 2015: Improving Climate Resiliency in Tribal Communities: Partnering for Change in the Missouri River Basin. *Water Resources Impact*, 17(4), 15-17.

Shulski, M.D., W. Baule, **C. Stiles**, and N. Umphlett, 2015: A Historical Perspective on Nebraska's Variable and Changing Climate. *Great Plains Research* 25(2), 109-120.

Book Chapters

Smith, K.H., **C.J. Stiles**, M.J. Hayes, and C.J. Carparelli, 2016: Support for Drought Response and Community Preparedness: Filling the Gaps between Plans and Action. In *Water Policy and Planning in a Variable and Changing Climate*, K.A. Miller, A.F. Hamlet, D.S. Kenney, and K.T. Redmond, eds., CRC Press – Taylor and Francis.

Workshop Reports

Bathke, D., N. Wall, J. Nothwehr, K. Smith, D. Woudenberg, T. Bernadt, **C. Bergman**, J. Robine, M. Hayes, M. Svoboda, L. Darby, and R. Pulwarty, 2012: Building a Sustainable Network of Drought Communities. National Integrated Drought Information System Engaging Preparedness Communities Workshop Report, Chicago, Illinois, 37 pp. [Available online at http://drought.unl.edu/archive/Documents/NDMC/Presentations//06082011_Chicago-IL/NIDIS_EPC_ChicagoWorkshopReport_Final.pdf]

Dissertations and Theses

Bergman, C.J., 2014: *Improving Drought Management for Transboundary River Basins in the United States through Collaborative Environmental Planning*, Ph.D. Dissertation, University of Nebraska-Lincoln, Lincoln, NE, available at <http://digitalcommons.unl.edu/natresdiss/91/>.

Bergman, C.J., 2009: *A Survey of Drought Impacts and Mitigation Planning in Kentucky*. Master's Thesis, Western Kentucky University, Bowling Green, KY, available at <http://digitalcommons.wku.edu/theses/95/>.

Bergman, C.J., 2005: *The National Weather Service's Polygon Method: Warning Dissemination of the Future*. Honors College Capstone Experience/Thesis Project, Western Kentucky University, Bowling Green, KY, available at http://digitalcommons.wku.edu/stu_hon_theses/159/.

SELECTED PRESENTATIONS

Abstracts for Professional Meetings (Oral and Poster Presentations)

Stiles, C.J., N.A. Umphlett, J. Rattling Leaf, Sr., and D.R. Kluck, 2020: Building Indigenous Resilience to Drought through Regional Collaborations in the Missouri River Basin. *American Meteorological Society Annual Meeting*, Boston, MA, January 12-16.

Flanagan, P.X., R. Mahmood, N. Umphlett, E. Hacker, C. Hacker, W. Sorensen, **C.J. Stiles**, D. Pearson, and P. Fajman, 2020: A Hydrometeorological Assessment of the Historic 2019 Flood of Nebraska, Iowa, and South Dakota. *American Meteorological Society Annual Meeting*, Boston, MA, January 12-16.

Stiles, C.J. and N.A. Umphlett, 2019: Building Resilience to Climate and Extreme Events with Tribal Communities in Kansas, Nebraska, and Iowa. *Building Resilience with Tribal Technical Teams Lower Missouri River Tribes Adaptation Planning Workshop*, Reserve, KS, June 18-19.

- Stiles, C.J.** and N.A. Umphlett, 2019: Developing Climate and Drought Summaries for Tribal Communities in the Missouri River Basin. *National Adaptation Forum*, Madison, WI, April 23-25.
- Umphlett, N.A., W. Pettee, B. Sorensen, and **C.J. Stiles**, 2019: ACIS-Based GIS Data Retrieval Portal Demonstration. *American Meteorological Society Annual Meeting*, Phoenix, AZ, January 6-10.
- Stiles, C.J.**, D. Bulling, D. Bathke, L. Pytlik-Zillig, T. Abdel-Monem, T. Bernadt, N. Wall, and E. Wickham, 2019: Drought Planning Using Community Threat and Hazard Identification and Risk Assessment. *American Meteorological Society Annual Meeting*, Phoenix, AZ, January 6-10.
- Pettee, W., N.A. Umphlett, B. Sorensen, and **C.J. Stiles**, 2019: Migrating to Python-Based Product Generation Software at the High Plains Regional Climate Center. *American Meteorological Society Annual Meeting*, Phoenix, AZ, January 6-10.
- Umphlett, N.A. and **C.J. Stiles**, 2018: Engaging Communities for Increased Resilience in the Missouri River Basin. *Northern Great Plains Climate Workshop*, Sioux Falls, SD, October 9-11.
- Stiles, C.J.** and D. Kluck, 2018: Current and Future Initiatives on Climate Resilience Research and Strategies. *Great Plains Tribal Water Alliance Fall Water Conference*, Rapid City, SD, October 2-4.
- Stiles, C.J.**, N. Umphlett, and D. Kluck, 2018: Building Capacity with Tribal Communities in the Missouri River Basin to Use Climate Information for Decision Making. *U.S. EPA Region 5 Tribal Water Workshop*, Crandon, WI, October 2-4.
- Stiles, C.J.** and M. Woloszyn, 2018: Leveraging Partnerships to Enhance Climate Monitoring and Drought Management on Tribal Lands. *North Central Extension Water Summit*, Keshena, WI, August 15-17.
- Pettee, W., N. Umphlett, B. Sorensen, and **C. Stiles**, 2018: Expanding Product Capabilities at the High Plains Regional Climate Center. *20th Annual High Plains Conference*, Hastings, NE, August 7-9.
- Stiles, C.J.**, N. Umphlett, and D. Kluck, 2018: Building Capacity with Tribal Communities in the Missouri River Basin to Use Climate Information for Decision Making. *American Association of State Climatologists Annual Meeting*, Nebraska City, NE, June 20-22.
- Umphlett, N., W. Pettee, W. Sorensen, and **C.J. Stiles**, 2018: ACIS-based GIS Data Retrieval Portal. *American Association of State Climatologists Annual Meeting*, Nebraska City, NE, June 20-22.
- Stiles, C.J.**, D. Crow Ghost, and N. Umphlett, 2018: Increasing the Capacity of Tribal Communities to Incorporate Climate Information into Decision Making. *Climate Prediction Applications Science Workshop*, Fargo, ND, May 22-24.

- Stiles, C.J.,** N. Umphlett, and D. Kluck, 2018: Building Capacity with Tribal Communities in the Missouri River Basin to Use Climate Information for Decision Making. *American Association of Geographers Annual Meeting*, New Orleans, LA, April 11-14.
- Stiles, C.J.,** D. Bathke, N. Wall, T. Bernadt, and E. Wickham, 2017: Developing a Drought Scenario for Threat and Hazard Identification and Risk Assessment (THIRA). *American Meteorological Society Conference on Applied Climatology*, Asheville, NC, June 26-28.
- Stiles, C.J.,** 2017: Capacity Building with Tribes in the Missouri River Basin through the Development of Climate Summaries. *NIDIS Missouri Basin User Forum: Drought Early Warning for the Upper Basin*, Rapid City, SD, May 23-25.
- Stiles, C.J.,** 2017: Increasing Resilience of Tribal Communities through Climate Data Training and Production of Climate Summaries. *National Adaptation Forum*, St. Paul, MN, May 8-11.
- Stiles, C.J.,** 2017: Building Capacity with the Tribes of Wind River: Developing Climate Assessments to Support Decision Making. *Great Plains Tribal Water Alliance Spring Conference*, Fort Yates, ND, April 4-7.
- Stiles, C.J.,** 2017: Capacity Building with Tribes in the Missouri River Basin through the Development of Climate Summaries. *NIDIS Missouri Basin User Forum: Drought Early Warning for the Lower Basin*, Nebraska City, NE, March 7-9.
- Stiles, C.J.,** 2016: Climate Summaries 101 and Specific Tribal Examples. *Great Plains Tribal Water Alliance Fall Conference*, Rapid City, SD, November 29-30.
- Stiles, C.J.,** N. Umphlett, 2016: Building Capacity with Tribes in the Missouri River Basin: An Example of Engaging a Community on Climate Issues. *American Association of State Climatologists Annual Meeting*, Santa Fe, NM, June 28-July 1.
- Stiles, C.J.,** 2016: Building Capacity for Climate Monitoring and Drought Management on Tribal Lands in the Missouri River Basin: Opportunities for Collaboration. *Great Plains Tribal Water Alliance Spring Conference*, Fort Pierre, SD, April 13-14.
- Stiles, C.J.,** 2016: Recent Activities of the High Plains Regional Climate Center. *USDA Northern Plains Climate Hub Meeting*, Casper, WY, March 16-17.
- Stiles, C.J.,** 2016: Communicating Climate Science to Inform Natural Resource Management Decisions among Native American Communities in the Missouri River Basin. *American Meteorological Society Annual Meeting*, New Orleans, LA, January 10-14.
- Stiles, C.J.,** 2015: Building Capacity for Climate Monitoring with Tribal Nations in the Missouri River Basin. *American Association of State Climatologists Annual Meeting*, Cape May, NJ, June 23-26.
- Stiles, C.J.,** N. Umphlett, B. Fuchs, and M. Shulski, 2015: Building Capacity for Climate Monitoring and Drought Management on the Wind River Indian Reservation. *13th Annual NOAA Climate Prediction Applications Science Workshop*, Las Cruces, NM, March 24-

- Bergman, C.J.,** M.J. Hayes, D.J. Bathke, C.L. Knutson, and Z. Tang, 2014: Improving Drought Management for Transboundary River Basins in the United States through Collaborative Environmental Planning. *40th Annual Center for Great Plains Studies Symposium*, Lincoln, NE, April 1-4.
- Bergman, C.J.,** M.J. Hayes, D.J. Bathke, C.L. Knutson, and Z. Tang, 2013: Investigating the Experiences of Transboundary Watersheds and Hydrologic Basins to Improve Drought Planning in the United States. *Association of American Geographers Annual Meeting*, Los Angeles, CA, April 9-13.
- Bergman, C.J.,** M.J. Hayes, D.J. Bathke, C.L. Knutson, and Z. Tang, 2012: Investigating the Experiences of Watersheds and Hydrologic Basins to Improve Drought Planning in the U.S. *American Meteorological Society Annual Meeting*, New Orleans, LA, January 22-26.
- Bergman, C.J.,** M.J. Hayes, D.J. Bathke, C.L. Knutson, and Z. Tang, 2011: The Status of Drought Planning for Watersheds and Hydrologic Basins in the United States. *American Meteorological Society Conference on Applied Climatology*, Asheville, NC, July 18-20.
- Bergman, C.J.,** M.J. Hayes, D.J. Bathke, C.L. Knutson, and Z. Tang, 2011: An Overview of Watershed Management and Basin-Level Drought Planning in the United States. *Nebraska Academy of Sciences Annual Meeting*, Lincoln, NE, April 15.
- Bergman, C.J.,** D.J. Bathke, M.D. Svoboda, N.A. Wall, J. Nothwehr, J. Robine, T.K. Bernadt, and M.J. Hayes, 2011: Vision into Action: The Establishment and Facilitation of an Effective Drought Coordinator Network in the United States. *American Meteorological Society Annual Meeting*, Seattle, WA, January 23-27.
- Bergman, C.J.,** and S.A. Foster, 2010: An Analysis of Drought Impacts in Kentucky. *Nebraska Academy of Sciences Annual Meeting*, Lincoln, NE, April 23.
- Bergman, C.J.,** and S.A. Foster, 2010: A Survey of Impacts Resulting from the Drought of 2007 in Kentucky. *American Meteorological Society Annual Meeting*, Atlanta, GA, January 17-21.
- Bergman, C.J.,** and S.A. Foster, 2009: An Analysis of Drought Impacts in Kentucky. *Association of American Geographers Annual Meeting*, Las Vegas, NV, March 22-27.
- Bergman, C.J.,** and S.A. Foster, 2008: A Spatio-Temporal Analysis of the 1930-1931 and 2007 Droughts in Kentucky. *National Weather Association Annual Meeting*, Louisville, KY, October 11-16.
- Bergman, C.J.,** and S.A. Foster, 2008: An Analysis of Impacts Resulting from the Kentucky Drought of 2007. *Association of American Geographers Annual Meeting*, Boston, MA, April 15-19.

Bergman, C.J., and S.A. Foster, 2007: A Media Perspective on the Kentucky Drought of 2007. *Kentucky Academy of Science Annual Meeting*, Louisville, KY, November 8-10.

Bergman, C.J., A.H. Wulff, and R. Mahmood, 2005: Modeling Relationships between Soil and Climate Parameters using the Basic GAPS Program. *Geological Society of America Southeastern Section Annual Meeting*, Biloxi, MS, March 17-18.

STUDENT SERVICE

2017-2019 Served on doctoral committee of Elliot Wickham (University of Nebraska-Lincoln), who successfully defended November 2019 and graduated December 2019.

Dissertation title: “Exploring New Opportunities for Drought Risk Assessment and Awareness to Enhance Drought Risk Management at the Local Levels”

TEACHING EXPERIENCE

Courses Taught:

- Introduction to Meteorology
- Introduction to the Physical Environment
- World Regional Geography
- Climate in Crisis
- Applied Climate Science (Teaching Assistant)
- Earth’s Natural Resources System (Teaching Assistant)

HONORS AND AWARDS

- *Service Award (5 Years)*, University of Nebraska-Lincoln (2019)
- *Great Plains Fellow*, Center for Great Plains Studies (2018)
- *Travel Grant*, Institute for Agriculture and Natural Resources, University of Nebraska-Lincoln (2018)
- *Honorable Mention Climate Adaptation Leadership Award*, sponsored by the National Fish, Wildlife, and Plant Climate Adaptation Strategy’s Joint Implementation Working Group (award given to the Wind River Drought Preparedness Team of which I am a collaborator) (2017)
- *Chancellor’s Award for Employee Wellness*, School of Natural Resources, University of Nebraska-Lincoln (I helped the department earn this award) (2016 & 2017)
- *Natural Resource Sciences Graduate Student Conference Travel Grant recipient*, University of Nebraska-Lincoln (2013)
- *School of Natural Resources Graduate Student Association Student Travel Grant recipient*, University of Nebraska-Lincoln (2011)

- *Weather and Society Integrated Studies (WAS*IS) summer workshop attendee*, Boulder, Colorado (2010)
- *Graduate student presentation competition winner*, first place, Nebraska Academy of Sciences Annual Meeting Earth Sciences section, Lincoln, Nebraska (2010)
- *Larrick and Whitmore travel grant recipient*, University of Nebraska-Lincoln (2009)
- *Geography Awareness Week poster contest winner*, fourth place, University of Nebraska-Lincoln (2009)
- *Graduate research assistantship recipient*, School of Natural Resources, University of Nebraska-Lincoln (2009)
- *Outstanding Student Leader in Geoscience*, The Center for Leadership Excellence, Western Kentucky University (2007)
- *Graduate research competition winner*, third place, Kentucky Academy of Science, Louisville, Kentucky (2007)
- *Gamma Beta Phi Society inductee*, Western Kentucky University (2007)
- *Graduate research assistantship recipient*, Kentucky Mesonet, Department of Geography and Geology, Western Kentucky University (2006)
- *Ronald R. Dilamarter Outstanding Geography Senior Award recipient*, Department of Geography and Geology, Western Kentucky University (2006)
- *Honors Program graduate*, Western Kentucky University (2005)
- *Magna Cum Laude distinction*, Western Kentucky University (2005)
- *Golden Key International Honor Society inductee*, Western Kentucky University (2003)
- *Phi Eta Sigma Honor Society inductee*, Western Kentucky University (2002)

SPECIAL SKILLS AND TRAINING

Software Skills

- Microsoft Suite: Word, Excel, PowerPoint, Access
- Blackboard
- ArcInfo (ArcGIS)
- Adobe InDesign
- MAXQDA

Training

- Office of Sponsored Programs Budget Template Training, University of Nebraska-Lincoln (2015)
- Search Committee Orientation, University of Nebraska-Lincoln (2015)
- Grant Writers' Seminars and Workshops "Write Winning Grant Proposals" Seminar, University of Nebraska-Lincoln (2013)
- Responsible Conduct of Research, University of Nebraska-Lincoln (2010)

- Institutional Review Board (IRB) Collaborative Institutional Training Initiative (CITI), University of Nebraska-Lincoln (2010)
- Basic College Teaching Skills Program, Western Kentucky University (2007)
- OK-First Full Certification Course, Oklahoma Climatological Survey (2006)

SERVICE AND OTHER PROFESSIONAL ACTIVITIES

- *Search Committee Chair*, Service Climatologist, School of Natural Resources, University of Nebraska-Lincoln (2019)
- *Wellness Committee Member*, School of Natural Resources, University of Nebraska-Lincoln (2018-2019)
- *Search Committee Member*, Applied Climatologist/HPRCC Director, School of Natural Resources, University of Nebraska-Lincoln (2017-2018)
- *Associate Member*, Graduate Faculty at the University of Nebraska-Lincoln (2017-present)
- *Consultant*, National Integrated Drought Information System (NIDIS) Education and Public Awareness Working Group (2015-present)
- *Member and Co-Chair*, School of Natural Resources Social Committee, University of Nebraska-Lincoln (2015-2017)
- *Wellness Ambassador*, Campus Recreation Wellness Initiative, University of Nebraska-Lincoln (2014-2018)
- *Reviewer*, International Journal of Disaster Risk Science (2013-present)
- *Coordinator*, Department of Geography & Geology Fall Seminar Series, Western Kentucky University (2013)
- *Chair*, Earth Sciences section, Nebraska Academy of Sciences (2010-2011)
- *Member*, American Meteorological Society (AMS)
- *Member*, Earth Science Women's Network
- *Member*, American Association of State Climatologists (AASC)