

## TONI KLEMM, PH.D.

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### CURRENT POSITION

Since 3/2018 Postdoctoral Research Associate, Texas A&M University  
Project: Vulnerability Assessment of U.S. Great Plains Cattle Production to Climate Variability and Change  
Supervisor: David D. Briske, Ph.D.

### EDUCATION

- 07/2019 **Summer School for Sustainable Climate Risk Management (SCRiM)**  
The Pennsylvania State University, University Park, PA
- 2012 - 2018 **Ph.D., Geography, The University of Oklahoma**  
Dissertation title: "Assessing User Needs and Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains"  
Committee chair: Renee A. McPherson, Ph.D.
- 2004 - 2011 **Diplom-Geograf\*, Dresden University of Technology, Germany**  
Thesis title: "The effects of the North Atlantic Oscillation on precipitation in Morocco"  
Advisors: Christoph Zielhofer, Ph.D. (University of Leipzig), Arno Kleber, Ph.D. (Dresden University of Technology)  
\* equivalent to MS Geography

### PUBLICATIONS

- In review **Klemm, Toni**, David D. Briske, and Matthew C. Reeves: Vulnerability Assessment of Rangeland Beef Cattle Production to Future Climate Variability in the U.S. Great Plains.
- In review **Klemm, Toni**, David D. Briske, and Matthew C. Reeves: Climate-Induced Changes in Potential Natural Vegetation Types and NPP in the U.S. Great Plains throughout the 21st Century.
- Available online **Klemm, Toni** and David D. Briske: Retrospective Assessment of Beef Cow Numbers to Climate Variability Throughout the U.S. Great Plains. *Rangeland Ecology & Management*. ([link](#))
- 2018 **Klemm, Toni** and Renee A. McPherson: Assessing Decision Timing and Seasonal Climate Forecast Needs of Winter Wheat Producers in the South-Central United States. *Journal of Applied Meteorology and Climatology*, 57, 2129-2140. ([link](#))
- 2017 **Klemm, Toni** and Renee A. McPherson: The development of seasonal climate forecasting for agricultural producers. *Agricultural and Forest Meteorology* 232, 384-399. ([link](#))

### GRANTS AND AWARDS RECEIVED

- 2019 SCRiM Summer School travel grant, \$1,578
- 2018 ORAU travel grant, \$1,674
- 2017 AMS travel grant, \$1,374
- 2016 Graduate Climate Conference travel grant, \$300
- 2016 U.S. Geological Survey travel grant, \$990
- 2015 Society of Environmental Journalists, 3rd prize poster competition, \$100
- 2013 National Weather Center Biennale, finalist (photography)

2013 Ralph and Margaret Olson Scholarship, \$1000

2013 Robberson Conference Presentation & Creative Exhibition Travel Grant, \$500

## TEACHING AND MENTORING

Since 2019 undergraduate/graduate student mentor, "Bridging the Gap" mentoring event, Society of Range Management annual meetings

2019 Youth group activity (6th - 12th grade) "Why stewardship matters to us," discussing solutions to global environmental problems. Friends Congregational Church (UCC), College Station, TX, October 20, 2019

Since 2018 Online educator with [Skype a Scientist](#), teaching middle and high school students about food production, climate change science, environmental and societal impacts of climate variability and change

2017 Educator, guided inquiry lecture on societal impacts of climate change, Irving Middle School, Norman, OK, May 23, 2017 ([blog post](#), June 26, 2017)

2016 Undergraduate lecture "Cloud formation and air masses" for freshmen in physical geography, University of Oklahoma, September 27, 2016

2014, 2015, 2017 Mentoring high school students about science, science careers, and study abroad, University of Oklahoma School of Meteorology meteorology camp

2014, spring semester Teaching assistant, Regional Climatology (Dr. Renee McPherson), University of Oklahoma, grading, in-class assistant, one-on-one meetings with students

2014 - 2018 Panelist, annual undergraduate lectures on career and professional development, Department of Geography and Environmental Sustainability, University of Oklahoma

2012 - 2018 Moderator and presenter, South Central Climate Adaptation Science Center journal club

2011 - 2012 Lecturer, creative photography workshops

## CONFERENCE PRESENTATIONS AND SEMINARS

2020 Society for Range Management annual meeting, Denver, CO  
"Future Climate and Forage Projections: Implications for Beef Cattle Numbers and Distribution", February 19, 2020 (oral presentation)

2020 Department of Ecology and Conservation Biology, Texas A&M University  
"Vulnerability of rangeland beef cattle production to future climates across the Great Plains", February 11, 2020 (seminar)

2019 Department of Atmospheric Sciences, Texas A&M University  
"Assessing User Needs and Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", March 27, 2019 (seminar)

2019 Society for Range Management Annual Meeting, Minneapolis, MN  
"Projections of Climate-Induced Land Cover Change in the U.S. Great Plains", February 11, 2019 (oral presentation)

2018 2nd International Conferences on Subseasonal to Decadal Prediction, Boulder, CO  
"Assessing User Needs and Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", September 19, 2018 (poster)

2018 98th American Meteorological Society annual meeting, Austin, TX  
"Assessing User Needs and Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", January 8, 2018 (oral presentation)

- 2017 42nd Climate Diagnostics and Prediction Workshop, Norman, OK  
"Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 24, 2017 (oral presentation)
- 2017 National Center for Atmospheric Research Capacity Center for Weather and Climate Extremes, Boulder, CO  
"Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 11, 2017 (seminar)
- 2017 North Central Climate Science Center, Ft. Collins, CO  
"Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 10, 2017 (seminar)
- 2017 Department of Geography and Environmental Sustainability, University of Oklahoma, Norman, OK  
"Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", May 5, 2017 (seminar)
- 2017 Annual meeting of the American Association of Geographers, Boston, MA  
"Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", April 9, 2017 (oral presentation)
- 2016 National Climate Science Center Early Career Training, University of Massachusetts, Amherst, MA  
"Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the South-Central U.S.", November 2, 2016 (poster)
- 2016 National Weather Service Climate Prediction Center, College Park, MD  
"Improving Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", November 1, 2016 (seminar)
- 2016 10th Graduate Climate Conference, Pack Forest, WA  
"Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the South-Central U.S.", October 29, 2016 (poster)
- 2016 Conference of the Southwest Division of the American Association of Geographers, Denton, TX  
"Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the Southern Great Plains", October 21, 2016 (oral presentation)
- 2016 USDA Grazinglands Research Laboratory, El Reno, OK  
"Improving Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", September 29, 2016 (seminar)
- 2016 NSF EPSCoR Site Visit, Stillwater, OK  
"Improving Seasonal Climate Forecasts for Winter Wheat Producers in the South-Central U.S.", September 21, 2016 (poster)
- 2015 Oklahoma EPSCoR annual state conference, Norman, OK  
"Improving Seasonal Climate Forecasts for Winter Wheat Producers in the South-Central U.S.", December 3, 2015 (poster)
- 2015 GIS Day, University of Oklahoma, Norman, OK  
"Improving Seasonal Climate Forecasts for Winter Wheat Farmers in the South-Central U.S.", November 17, 2015 (poster)
- 2015 Conference of the Southwest Division of the American Association of Geographers, San Antonio, TX  
"Improving Seasonal Climate Forecasts for Oklahoma Winter Wheat Farmers", November 6, 2015 (poster)
- 2015 25th annual meeting of the Society of Environmental Journalists, Norman, OK  
"Improving Seasonal Climate Forecasts for Winter Wheat Farmers in the South-Central U.S.", October 7, 2015 (poster, 3<sup>rd</sup> prize poster competition)

- 2015 13th annual Climate Predictions Applications Science Workshop, Las Cruces, NM  
"Tailoring Long-Term Climate Forecasts for Agricultural Producers in Oklahoma — Proposed Dissertation Research", March 24, 2015 (poster)
- 2014 South Central Climate Science Center Early Career Workshop, Norman, OK  
"Tailoring Long-Term Climate Forecasts for Agricultural Producers in Oklahoma", June 16, 2014  
(3 minute speed talk)
- 2014 40th Drought Symposium, Lincoln, NE  
"Improving Seasonal Climate Forecasts to Help Manage Future Droughts — Proposed Dissertation Research", April 2, 2014 (poster)
- 2013 7th Graduate Climate Conference, Woods Hole, MA  
"Improving Seasonal Climate Projections to Help Agricultural Producers Adapt to Climate Variability - Proposed Dissertation Research", November 1, 2013 (poster)
- 2013 Conference of the Southwest Division of the American Association of Geographers, Nacogdoches, TX  
"Improving Seasonal Climate Projections to Help Agricultural Producers Adapt to Climate Variability — Proposed Dissertation Research", October 25, 2013 (poster)

## **LEADERSHIP AND PROFESSIONAL EXPERIENCE**

- 2020 Co-host, workshop "Improving Communication and Collaboration Among Diverse Experts", Society for Range Management annual meeting, Denver, CO, February 19, 2020
- 2020 Co-organizer, symposium "Vulnerability of Beef Cattle Production to Ecological and Socio-Economic Challenges of Future Climates", Society for Range Management annual meeting, Denver, CO, February 19, 2020
- 2020 Round-table discussion moderator between land managers, tribal members, and researchers, discussing "Rangelands and Climate Change", Society for Range Management annual meeting, Denver, CO, February 18, 2020
- 2018 Session moderator, Symposium on Agricultural and Ecological Vulnerability to a Changing Climate (College Station, TX), October 26, 2018
- 2017 Session assistant, 42nd Climate Diagnostics and Prediction Workshop (Norman, OK), October 23-26, 2017
- 2017 Session organizer and chair, "Agriculture under Climate Change", annual meeting of the American Association of Geographers (Boston, MA), April 8, 2017
- 2017-2018 Sergeant-at-arms, Toastmasters International club "Boomer Nooners", Norman, OK
- 2016 Co-host, workshop "Communicating with the media", National Climate Science Center Early Career Training, Amherst, MA, November 3, 2016
- Since 2013 Photographer and videographer, TEDx conferences, Norman, OK ([www.tedxou.com](http://www.tedxou.com)) and College Station, TX ([www.tedxtamu.com](http://www.tedxtamu.com))
- Since 2012 Co-founder, editorial board member, podcast host, writer, Early Career Climate Forum (online platform connecting early-career researchers and professionals in climate-related fields), [www.eccforum.org](http://www.eccforum.org)
- 2009 - 2012 Sports editor, "ad rem" (weekly student newspaper), Dresden, Germany
- 2009 Editorial Intern, "Die Erde" (peer-reviewed journal), Geographical Society of Berlin, Berlin, Germany, October - December 2009
- 2009 Research intern, Department of the Environment, Agriculture and Geology, Free State of Saxony, Germany, January - February 2009
- 2007 Research intern, German Weather Service, Lindenberg, Germany, July - September 2007
- Since 2007 Freelance photographer and writer for online and print media, Germany

2003 - 2004 Farm worker on commercial sheep, cattle, and vegetable farms in Australia

**PROFESSIONAL MEMBERSHIPS**

Since 2019 Society for Range Management (SRM)

Since 2016 American Association of Geographers (AAG)

Since 2013 American Meteorological Society (AMS)

Since 2013 Society of Environmental Journalists (SEJ)

2017 - 2018 Toastmasters International