

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 Livestock Production to Climate Variability and Change
Supervisor: David D. Briske, Ph.D.

EDUCATION

- 8/2012 - 2/2018 **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 preparation **Klemm, Toni** and Briske, David D.: "Beef Cattle Numbers and Distribution in the Great Plains – Historical Trends and Future Projections", Invited paper for Rangeland Ecology & Management.
- In preparation **Klemm, Toni** and McPherson, Renee A.: "Assessing Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the South-Central U.S."
- 2018 **Klemm, Toni** and McPherson, Renee A.: 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 McPherson, Renee A.: The development of seasonal climate forecasting for agricultural producers. *Agricultural and Forest Meteorology* 232, 384-399. ([link](#))

GRANTS AND AWARDS RECEIVED

- 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 EXPERIENCE

- 2017 **Invited researcher**, guided inquiry lecture on societal impacts of climate change, Irving Middle School, Norman, OK, May 23, 2017 ([blog post](#), June 26, 2017)
- 2016 Co-leader, workshop "Communicating with the media", National Climate Science Center Early Career Training, Amherst, MA, November 3, 2016
- 2016 Class lecturer, cloud formation and air masses, single lecture physical geography for freshmen, University of Oklahoma, September 27, 2016
- 2014, 2015, 2017 Roundtable discussion moderator to high school students, annual University of Oklahoma 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 Speaker in 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 Science Center journal club
- 2011 - 2012 Lecturer, creative photography workshops

PRESENTATIONS AND SEMINARS

- 2018 2nd International Conferences on Subseasonal to Decadal Prediction, Boulder, CO, poster presentation "Assessing User Needs and Model Accuracy of Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", September 19, 2018
- 2017 42nd Climate Diagnostics and Prediction Workshop, Norman, OK, oral presentation "Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 24, 2017
- 2017 National Center for Atmospheric Research, Boulder, CO, research seminar, "Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 11, 2017
- 2017 North Central Climate Science Center, Ft. Collins, CO, research seminar, "Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", October 10, 2017
- 2017 Department of Geography and Environmental Sustainability, University of Oklahoma, Norman, OK, colloquium series, **invited speaker**, "Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", May 5, 2017
- 2017 Annual meeting of the American Association of Geographers, Boston, MA, oral presentation "Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", April 9, 2017
- 2016 National Climate Science Center Early Career Training, University of Massachusetts, Amherst, MA, poster "Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the South-Central U.S.", November 2, 2016
- 2016 NWS Climate Prediction Center, College Park, MD, **invited speaker**, "Improving Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", November 1, 2016
- 2016 10th Graduate Climate Conference, Pack Forest, WA, poster "Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the South-Central U.S.", October 29, 2016
- 2016 Conference of the Southwest Division of the American Association of Geographers, Denton, TX, oral presentation, "Needs for Seasonal Climate Forecast Products for Winter Wheat Producers in the Southern Great Plains", October 21, 2016

- 2016 USDA Grazinglands Research Laboratory, El Reno, OK, **invited speaker**, "Improving Seasonal Climate Forecasts for Winter Wheat Producers in the Southern Great Plains", September 29, 2016
- 2016 NSF EPSCoR Site Visit, Stillwater, OK, poster "Improving Seasonal Climate Forecasts for Winter Wheat Producers in the South-Central U.S.", September 21, 2016
- 2015 Oklahoma EPSCoR annual state conference, Norman, OK, poster "Improving Seasonal Climate Forecasts for Winter Wheat Producers in the South-Central U.S.", December 3, 2015
- 2015 GIS Day, University of Oklahoma, Norman, OK, poster "Improving Seasonal Climate Forecasts for Winter Wheat Farmers in the South-Central U.S.", November 17, 2015
- 2015 Conference of the Southwest Division of the American Association of Geographers, San Antonio, TX, poster "Improving Seasonal Climate Forecasts for Oklahoma Winter Wheat Farmers", November 6, 2015
- 2015 25th annual meeting of the Society of Environmental Journalists, Norman, OK, poster "Improving Seasonal Climate Forecasts for Winter Wheat Farmers in the South-Central U.S., October 7, 2015 (3rd prize poster competition)
- 2015 13th annual Climate Predictions Applications Science Workshop, Las Cruces, NM, poster "Tailoring Long-Term Climate Forecasts for Agricultural Producers in Oklahoma — Proposed Dissertation Research", March 24, 2015
- 2014 South Central Climate Science Center Early Career Workshop, Norman, OK, speed talk (3 minutes) "Tailoring Long-Term Climate Forecasts for Agricultural Producers in Oklahoma", June 16, 2014
- 2014 40th Drought Symposium, Lincoln, NE, poster "Improving Seasonal Climate Forecasts to Help Manage Future Droughts — Proposed Dissertation Research", April 2, 2014
- 2013 7th Graduate Climate Conference, Woods Hole, MA, poster "Improving Seasonal Climate Projections to Help Agricultural Producers Adapt to Climate Variability - Proposed Dissertation Research", November 1, 2013
- 2013 Conference of the Southwest Division of the American Association of Geographers, Nacogdoches, TX, poster "Improving Seasonal Climate Projections to Help Agricultural Producers Adapt to Climate Variability — Proposed Dissertation Research", October 25, 2013

LEADERSHIP AND PROFESSIONAL EXPERIENCE

- 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
- 2013 - 2017 Photographer and videographer, TEDxOU, Norman, OK (www.tedxou.com)
- 2012 - Co-founder, editorial board member, writer, Early Career Climate Forum (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

2007 - 2012 Freelance photographer and journalist for print and online media, Germany

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

PROFESSIONAL MEMBERSHIPS

Since 2016 American Association of Geographers (AAG)

Since 2013 American Meteorological Society (AMS)

Since 2013 Society of Environmental Journalists (SEJ)

2017 - 2018 Toastmasters International