

## **DR. JANA B. HOUSER**

Department of Geography  
College of Arts and Sciences

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Columbus, OH 43210  
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**THE OHIO STATE  
UNIVERSITY**

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### **EDUCATION**

*Ph. D. in Meteorology – 2013*

The University of Oklahoma, School of Meteorology  
Adviser: Dr. Howard B. Bluestein

*M. S. in Meteorology – 2008*

The University of Oklahoma, School of Meteorology  
Adviser: Dr. Howard B. Bluestein

*B. S. in Meteorology – 2004 (with distinction)*

The Pennsylvania State University, Department of Meteorology

### **APPOINTMENTS**

2022-Present – Associate Professor, The Ohio State University

2019-2022 – Associate Professor, Ohio University

2013-2019 – Assistant Professor, Ohio University

2005-2013 – Graduate Research Assistant, School of Meteorology, University of Oklahoma

2008, 2010, 2011 – Graduate Instructor, School of Meteorology, University of Oklahoma

2004 – Teaching Assistant, Department of Meteorology, Penn State

### **RESEARCH INTERESTS**

- Radar-based observations of the evolution and life cycles of tornadoes and supercells.
- Sources and formation of near-ground rotation in supercells and tornadoes.
- Role of topography and ground surface type in tornado life cycle, strength, and path.
- Discrimination between tornadic and non-tornadic supercells and environments.
- Forecasting severe weather events.
- Microphysical properties of convective storms as inferred by dual-pol radar parameters.
- Climatology of severe weather events and environments in the U. S.
- Severe weather events occurring in the Ohio River Valley region.
- Public response and perception to tornado and local severe weather threats.

### **GRANTS**

- 2018: An Investigation of the Correlation between Tornado Formation, Intensification, and Decay and Ground Features using Rapid-Scan Mobile Radar Observations, Damage Surveys, and GIS. **PI: Jana Houser.** Submitted to the National Science Foundation. AGS-1749504, **\$360,323. Funded (5/1/2018-4/30/2022).**
- 2013: An Evaluation of Past Severe Thunderstorm Climatology and Overview of Stakeholder Response to Potential Future Changes in Severe Thunderstorm Events. **PI: Jana Houser.** Co-PIs:

Harold Brooks, Alek Krautman. Submitted to the National Oceanic and Atmospheric Administration.  
**Top ranking, but funding cancelled for FY2013**

## **PUBLICATIONS**

**(Names with \*'s next to them indicate students at the time the work was completed)**

- 1) **Houser, J. B. B.**, H. B. Bluestein, K. Thiem\*, J. Snyder, Z. Wienhoff\*, and D. Reif\*, 2022: Additional evaluation of the spatiotemporal evolution of rotation during tornadogenesis using rapid-scan mobile radar observations. *Mon. Wea. Rev.* (Accepted 4/2022)
- 2) P. Kollias, R. D. Palmer, D. Bodine, T. Adachi; H. Bluestein, J. Y. N. Cho; C. Griffin; **J. Houser**, P. E. Kirstetter, M. R. Kumjian, J. M. Kurdzo, W. C. Lee, E. P. Luke, S. Nesbitt, M. Oue, A. Shapiro, A. Rowe, J. Salazar, R. Tanamachi, K. Tuftedal, X. Wang, D. Zrnicek, B. P. Treserras. Science Applications of Phased Array Radars; *Bulletin of the American Meteorological Society*. (accepted 6/2022)
- 3) **Houser, J. B.**, N. McGinnis\*, K. Butler\*, H. Bluestein, J. Snyder and M. French, 2020: Statistical and empirical relationships between tornado intensity and both topography and land cover using rapid-scan radar observations and a GIS. *Mon. Wea. Rev.*, **148**, 4313-4338.
- 4) Bluestein, H. B., K. J. Thiem\*, J. C. Snyder, and **J. B. Houser**, 2019: Tornadogenesis and early tornado evolution in the El Reno, Oklahoma, supercell on 31 May 2013. *Mon. Wea. Rev.*, **147**, 2045-2066.
- 5) Beveridge, S\*., **J. B. Houser**, and S. Marzola\*, 2019: A Statistical Evaluation of Tornado-Production Tendencies of Southernmost Supercells Compared to Adjacent Supercells in a North-South Oriented Line. *Electronic J. Severe Storm Meteor.*, **14**, <http://www.ejssm.org/ojs/index.php/ejssm/article/view/167>.
- 6) Bluestein, H. B., Thiem, K\*., J. C. Snyder, and **J. B. Houser**, 2018: The multiple-vortex structure of the El Reno, Oklahoma tornado on 31 May 2013. *Mon. Wea. Rev.*, **146**, 2483-2502.
- 7) Wienhoff, Z. B\*., H. B. Bluestein, L. J. Wicker, J. C. Snyder, A. Shapiro, C. L. Potvin, **J. B. Houser**, and D. W. Reif\*, 2018: Applications of a spatially variable advection correction technique for temporal correction of dual-Doppler analyses of tornadic supercells. *Mon. Wea. Rev.*, **146**, 2949-2971.
- 8) Bluestein, H. B., Z. B. Wienhoff\*, D. D. Turner, D. W. Reif\*, J. C. Snyder, K. J. Thiem\*, and **J. B. Houser**, 2017: A comparison of the fine-scale structures of a prefrontal wind-shift line and a strong cold front in the Southern Plains of the U. S. *Mon. Wea. Rev.*, **145**, 3307-3330.
- 9) **Houser, J. B.**, H. B. Bluestein, and J. C. Snyder, **2016**: A fine-scale radar examination of the tornadic debris signature and weak reflectivity band associated with a large, violent tornado. *Monthly Weather Review*, **144**, 4104-4130.
- 10) H. B. Bluestein, M. M. French, J. C. Snyder, and **J. B. Houser**, **2016**: Doppler-radar observations of anticyclonic tornadoes in cyclonically rotating, right-moving supercells. *Mon. Wea. Rev.*, **144**, 1591-1616.
- 11) R. M. Wakimoto, N. T. Atkins, K. M. Butler, H. B. Bluestein, K. Thiem, J. C. Snyder, **J. Houser**, K. Kosiba, and J. Wurman, **2016**: Aerial Damage Survey of the 2013 El Reno Tornado Combined with Mobile Radar Data. *Mon. Wea. Rev.* **144**, 1749-1776.
- 12) **Houser, J. B.**, H. B. Bluestein, and J. C. Snyder, **2015**: Rapid-Scan, Polarimetric, Doppler Radar Observations of Tornadogenesis and Tornado Dissipation in a Tornadic Supercell: The “El Reno, Oklahoma” Storm of 24 May 2011. *Mon. Wea. Rev.* **143**, 2685–2710.
- 13) Bluestein, H. B., J. C. Snyder, and **J. B. Houser**, **2015**: A multi-scale overview of the El Reno, Oklahoma, tornadic supercell of 31 May 2013. *Wea. Forecasting*, **30**, 525-552.
- 14) Wakimoto, R., N. T. Atkins, K. M. Butler\*, H. B. Bluestein, K. Thiem, J. Snyder, and **J. Houser**, **2015**: Photogrammetric Analysis of the 2013 El Reno Tornado Combined with Mobile X-Band Polarimetric Radar Data. *Mon. Wea. Rev.* **143**, 2657-2683.

- 15) Bluestein, H. B. **J. B. Houser**, M. M. French, J. C. Snyder, G. D. Emmitt, I. PopStefanija, C. Baldi, R. T. Bluth, **2014**: Observations of the Boundary Layer near Tornadoes and in Supercells Using a Mobile, Collocated, Pulsed Doppler Lidar and Radar. *J. Atmos. Oceanic Technol.* **31**, 302-325.
- 16) Pazmany, A. L, J. B. Mead, H. B. Bluestein, J. C. Snyder and **J. B. Houser**, **2012**: A Mobile, Rapid-Scanning, X-band, Polarimetric, (RaXPo) Doppler-Radar System. *J. Atmos. Oceanic Technol.*, **30**, 1398-1413.
- 17) Tanamachi R. L., H. B. Bluestein, **J. B. Houser**, S. Frasier, and K. Hardwick, **2012**: Mobile, X-band, polarimetric Doppler radar observations of the 4 May 2007 Greensburg, Kansas tornadic supercell, *Mon. Wea. Rev.*, **140**, 2103–2125.
- 18) **Houser, J. B.** and H. B. Bluestein, **2011**: Polarimetric and Dual-Doppler Observations of Kelvin-Helmholtz Waves during a Winter Storm. *J. Atmos. Sci.*, **68**, 1676-1702.

### INVITED PRESENTATIONS (Since 2017):

- 1) **Houser, J. B., 2021: Invited presenter:** Recent advancements in our understanding of tornado evolution from rapid-scan mobile radar observations, *Iowa State University Seminar Series*, Ames, IA.
- 2) **Houser, J. B., 2020: Invited presenter:** Batten down the hatches! Severe weather can happen anytime. *Ohio University Business Continuity Planners Luncheon*, Virtual.
- 3) **Houser, J. B., 2020: Invited presenter:** Nondescending tornadogenesis observations from rapid-scan mobile radar observations. *Seminar Series Department of Earth, Atmospheric, and Planetary Sciences, Purdue University*, Virtual.
- 4) **Houser, J. B., 2020: Invited presenter:** Recent advances in our understanding of tornadogenesis. *24<sup>th</sup> Annual Severe Storms and Doppler Radar Conference*, Virtual.
- 5) **Houser, J. B., 2019: Invited presenter:** Hypotheses and Observations of Tornadogenesis: What We Have Learned from Rapid-Scan Radar Case Studies. *13<sup>th</sup> Minnesota Severe Storms Conference, Spotter Network*, Minneapolis, MN.
- 6) **Houser, J. B., 2019: Invited presenter:** Hypotheses and Observations of Tornadogenesis: What We Have Learned from Rapid-Scan Radar Case Studies. *Severe Weather Seminar. Wichita, KS Weather Forecast Office, National Weather Service*, Virtual.
- 7) **Houser, J. B., 2019: Invited presenter:** Tornadoes: What We Know, How We Know It, and What We Still Need to Learn. *Ohio University Eco-lunch, Ohio University Center for Ecology and Evolutionary Studies*.
- 8) **Houser, J. B., 2018: Invited presenter:** Rapid-Scan Mobile Radar Observations of Tornadoes: What We Have Learned. *Central Region, National Weather Service Science and Operations Officer Monthly Webinar*.
- 9) **Houser, J. B. 2018: Invited presenter:** Rapid-Scan Mobile Radar Observations of Tornadoes: What We Have Learned. *Wilmington, OH Weather Forecast Office, National Weather Service Webinar*.
- 10) **Houser, J. B. 2018: Invited presenter:** Tornadoes: Chasing some of Earth’s most powerful storms. *Federal Aviation Administration, Clinton County OH*.
- 11) **Houser, J. B., 2018: Invited presenter:** Tornadoes: Unraveling the Mysteries of one of Earth’s most Powerful Storms. *Ohio University Science Café*.
- 12) **Houser, J. B., N. McGinnis, and K. Butler 2017: Invited Keynote Address:** Correlations between Topography and Land Cover with Tornado Intensity using Rapid-Scan Mobile and WSR-88D Radar Observations in a Geographic Information System Framework. *38<sup>th</sup> Conference on Radar Meteorology, American Meteorological Society, Chicago, IL*.

- 13) **Houser, J. B., 2017: Guest Lecturer:** Rapid-Scan Radar Observations of Tornadoes: What We Have Learned About Tornado Structure and Evolution. *Plymouth State University Graduate Student Seminar Virtual Speaker Series.*
- 14) **Houser, J. B., 2017: Invited presenter:** Rapid-Scan Radar Observations of Tornadoes: What We Have Learned About Tornado Structure and Evolution. *Ohio University Department of Geology Colloquium.*

**FIRST AUTHORED CONFERENCE PRESENTATIONS SINCE 2015:**

\*I did not attend conferences in 2021 due to university implemented travel restrictions during the coronavirus pandemic.

- 1) **Houser, J. B., 2022:** Relationships between changes in tornado intensity and direction with variations in terrain and land cover. 11<sup>th</sup> European Conference on Radar in Meteorology and Hydrology, Locarno, Switzerland
- 2) **Houser, J. B., 2022:** Recent rapid-scan, mobile radar observations of tornadogenesis: Additional evidence supporting a non-descending process. 102<sup>nd</sup> Annual Meeting of the American Meteorological Society, Houston, TX.
- 3) **Houser, J. B., 2022:** An investigation of the relationship between topography and land cover with tornadogenesis and decay points in Oklahoma and Arkansas. 102<sup>nd</sup> Annual Meeting of the American Meteorological Society, Houston, TX.
- 4) **Houser, J. B., 2020:** Experiential learning in meteorology: Field studies of convection and severe storms. 100<sup>th</sup> Annual Meeting of the American Meteorological Society, Boston, MA.
- 5) **Houser, J. B., N. McGinnis, K. Butler, H. Bluestein, J. Snyder, and M. French, 2020:** Relating tornado intensity with surface topography and ground cover using rapid-scan mobile radar observations and a geographical information system framework. 100<sup>th</sup> Annual Meeting of the American Meteorological Society, Boston, MA.
- 6) **Houser, J. B., K. Butler, N. McGinnis, H. Bluestein and J. Snyder, 2019:** Relating changes in tornado intensity with surface topography and ground cover using rapid-scan mobile radar observations and GIS. American Geophysical Union, San Francisco, CA.
- 7) **Houser, J. B., H. Bluestein, A. Seimon, J. C. Snyder, K. Thiem, and J. Allen 2018:** Rapid-scan radar observations of tornadogenesis. 100<sup>th</sup> Fall American Geophysical Union Fall Meeting, Washington, DC.<sup>1</sup>
- 8) **Houser, J. B., A. Seimon, K. Thiem, S. Talbot, H. Bluestein, J. Snyder, J. Allen 2018:** Confirming bottom-up tornadogenesis in the 31 May 2013 El Reno tornado. 29<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Burlington, VT.
- 9) **Houser, J. B., K. Butler, N. McGinnis, H. Bluestein, and J. Snyder 2018:** Correlations between topography and land cover with tornado intensity using rapid-scan mobile and WSR-88D radar observations in a Geographic Information System framework. 29<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Burlington, VT.
- 10) **Houser, J. B., A. Seimon, K. Thiem, H. Bluestein, and J. Snyder 2018:** Confirming bottom-up tornadogenesis in the 31 May 2013 El Reno tornado. 22<sup>nd</sup> Severe Storms and Doppler Radar Conference, National Weather Association, Ankeny, IA.
- 11) **Houser, J. B., A. Seimon, K. Thiem, H. Bluestein and J. Snyder 2018:** Novel Observations of the Genesis of the 2013 El Reno Tornado: Coupling Rapid-Scan Radar Data with Crowd-Sourced Visual Observations. 98<sup>th</sup> Annual Meeting of the American Meteorological Society, Austin, TX.
- 12) **Houser, J. B., 2018:** A team-based learning approach to meteorology: Putting students' education in their hands. 98<sup>th</sup> Annual Meeting of the American Meteorological Society, Austin, TX.
- 13) **Houser, J. B., N. McGinnis, and K. Butler 2017: Invited Keynote Address:** Correlations between Topography and Land Cover with Tornado Intensity using Rapid-Scan Mobile and

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<sup>1</sup> This results from this presentation was widely picked up by the media and appeared in national press pieces, including The Washington Post, and Science Magazine News

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- WSR-88D Radar Observations in a Geographic Information System Framework. 38<sup>th</sup> Conference on Radar Meteorology, American Meteorological Society, Chicago, IL.
- 14) **Houser, J. B.** and N. McGinnis, **2017**: Correlations between Topography and Land Cover with Tornado Intensity using Rapid-Scan Mobile Radar Observations and Geographic Information System Data. 21<sup>st</sup> Severe Storms and Doppler Radar Conference, National Weather Association, Ankeny, IA.
  - 15) **Houser, J. B.** and N. McGinnis, **2017**: Correlations between Topography and Land Cover with Tornado Intensity using Rapid-Scan Mobile Radar Observations and GIS Data. 97<sup>th</sup> Annual Meeting of the American Meteorological Society, Seattle, WA.
  - 16) **Houser, J. B.**, H. B. Bluestein, and J. C. Snyder **2016**: An Examination of the Structure, Evolution, and Asymmetries of the Tornado Debris Signature from the 24 May 2011 El Reno, OK EF5 tornado. 28<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Portland, OR.
  - 17) **Houser, J. B.**, S. M. Marzola **2016**: An Examination of Tornado-Production Tendencies of Southern-Most Supercells Compared to Adjacent Supercells in a North-South Oriented Line. 28<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Portland, OR.
  - 18) **Houser, J. B.**, H. B. Bluestein and J. Snyder, **2016**: Rapid-scan, mobile radar observations of the tornadic debris signature of the 24 may 2011 El Reno tornado. 20<sup>th</sup> Severe Storms and Doppler Radar Conference, National Weather Association, Ankeny, IA.
  - 19) **Houser, J. B.**, H. B. Bluestein and J. Snyder, **2015**: An examination of the polarimetric structure of the 24 May, 2011 El Reno Tornado using a rapid-scan, mobile Doppler radar. 37<sup>th</sup> Conference on Radar Meteorology, American Meteorological Society, Norman, OK.
  - 20) **Houser, J. B.** **2015**: An examination of the polarimetric structure of two tornadoes using a rapid-scan, mobile Doppler radar. 19<sup>th</sup> Severe Storms and Doppler Radar Conference, National Weather Association, Ankeny, IA.
  - 21) **Houser, J. B.** **2015**: Using Interactive Teaching Techniques in the Synoptic Meteorology Classroom: Getting Students Involved. 95<sup>th</sup> Annual Meeting of the American Meteorological Society, Phoenix, AZ

**FIELD PROJECTS:**

- 1) Ohio University Spring Storm Chasing Study Away Experience, 2015, 2017, 2018, 2019.
- 2) University of Oklahoma Spring Field Experiment, 2007-2013, 2015.  
Served in various capacities including driver, navigator, and research support personnel for several different mobile radar instruments during data collection thrusts of supercells and tornadoes.
- 3) Second Verification of the Origin of Rotation in Tornadoes Experiment (VORTEX-2), 2009-2010.  
Operator of a mobile Doppler lidar, 2010.  
Navigator for the Mobile Weather Radar 2005 X-band Phased Array vehicle, 2009.
- 4) Radar Observations of Tornadoes and Thunderstorms Experiment (ROTATE), 2004-2005.  
Navigator for the Tornado Intercept Vehicle, 2005.  
Navigator for a mobile Doppler radar, 2004.
- 5) Pennsylvania Mobile Radar Experiment (PAMREX), 2003.  
Operator of a mobile Doppler radar.

**TEACHING EXPERIENCE**

*\*Sabbatical was taken during the academic year of 2020-2021*

*Professor:*

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- Synoptic Meteorology, (Geog 4060), Fall 2013-2021
- Mesoscale Meteorology (Geog 4070), Springs 2014, 2015, 2018-2020
- Seminar in Supercells and Tornadoes (Geog 4900/6100) Fall 2014, Spring 2017, Spring 2019
- Introduction to Meteorological Radar Systems, Observations and Theory (Geog 4035) Spring 2017, Fall 2018, 2021
- University Professor Special Course on Extreme Weather in the U.S. (UP 4901), Spring 2020
- Introduction to Meteorology (Geog 3010) Springs 2015, 2018
- Introduction to Physical Geography (Geog 1100) Spring 2014, Fall 2015, Fall 2017
- Geography Honor's Tutorial (Geog 2970T) Various semesters from 2015-present
- Tornado Chasing Field Experience (Geog 4930) Summer 2015, Summer 2017-2019
- *Instructor (University of Oklahoma): Severe and Unusual Weather, (Metr 2603), Fall semesters 2008, 2010, 2011.*

### **TEACHING INTERESTS**

- Synoptic meteorology
- Mid-latitude severe convective storms and tornadoes
- Radar meteorology
- Mesoscale meteorology
- Introductory atmospheric science
- Nontraditional classroom pedagogy and active learning methodology

### **MENTORING EXPERIENCE**

#### **Graduate Student Advisees**

*Benjamin Price, M. S. 2021-Present*

*Patrick McMillan, M. S. 2021-Present*

*Lauren Warner, M. S. 2020-Present*

*Darby Johnson, M. S. 2019-Present*

*Rabeya Akter, M. S. 2019-2020*

*Michael Aufiero, M. S. 2018-2019*

*Tyler Muncy, M.S. 2018-2021*

*Krista Thomason, M. S. 2017-2019*

*James Foster, M.S. 2017-2019*

*Ian Bailey, M.S. 2016-2018*

*Christine Aiena, M.S. 2016-2018*

*Kelly Butler, M.S. 2015-2017*

*Nathaniel McGinnis, M.S. 2014-2016*

*Douglas Schuster, M.S. 2014-2016*

#### **Undergraduate Student Research Advisees**

*Nathan Kuhr 2020-2022 (Honors Tutorial Student)*

*Miranda Silcott 2020-2021 (Department Honors Resesarc)*

*Erin Evans 2020 (Research assistant)*

*Susan Beveridge 2015-2019 (Honors Tutorial Student)*

*Andrea Lorek 2018-2019 (Research assistant)*

*Matthew Thigpen 2018-2019 (Research assistant)*

*Kevin Thiel 2017-2018 (Student research project)*

*Alec Prosser 2016-2017 (Student research project)*

*Charlotte Connely 2016 (Honors Tutorial Student)*

*Kelsey Britt 2014-2016 (Student research project)*  
*Sara Marzola 2014-2016 (Student research project)*

### **AWARDS AND HONORS**

- University Professor Award Recipient (2019)
- College of Arts and Sciences Outstanding Faculty, Research, Scholarship and Creativity Award: Sciences Recipient (2019)
- Honor's Tutorial College Outstanding Tutor Award (2019)
- University Professor Award Nominee (2018)
- Jeanette G. Grasselli Brown Faculty Teaching Award for the Natural Sciences (2017)
- Bruning Teaching Fellow (2015-2016)
- American Meteorological Society First Place Student Presentation: Rapid-Scan Observations of Tornadogenesis, Intensification, and Decay from a Mobile Radar, 93<sup>rd</sup> AMS Annual Meeting (2013).
- University of Oklahoma Student Research and Performance Award: Second Place in Natural Sciences (2012).

### **PROFESSIONAL SERVICE**

- ***Invited Grant Review Panelist – National Science Foundation*** Mid-Scale Research Infrastructure, Track II (Feb, 2022)
- ***Conference Organizer*** – Student and Early Career Scientist Conference on Severe Local Storms Topics (Virtual, Nov 2021)
- ***Invited Grant Review Panelist – Deutsche Forschungsgemeinschaft*** (German federal funding agency) Polarimetric Radar Operations meet Atmospheric Modelling Proposals, 7/12/2018, 11/2021.
- ***Scientific and Technological Activities Commission Member*** – Committee for Severe Local Storms. 2016-present
- ***Associate Editor*** – Monthly Weather Review, American Meteorological Society, Jan 2018-Present.
- ***Scientific and Technological Activities Commission Member*** – Chair Person for Severe Local Storms. 2021-Present
- ***Invited Grant Review Panelist – National Science Foundation*** Disaster Resilience and Research Grants, Atmospheric and Geospace Science Division (Fall 2020)
- ***Invited Conference Organization Committee Member*** – Southeast Appalachian Weather and Climate Workshop (Ashville, NC), Jan 2021 – present.
- ***Invited Reviewer*** – Various grants for the National Science Foundation (2017-Present)
- ***Invited Reviewer*** – Alfred P. Sloan Foundation (Spring 2019).
- ***Invited Reviewer*** – National Environment Research Council Grant (2019)
- ***Program Committee, Planning Committee, and Food and Beverage Committee Member*** – 29<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, 2018-Present.
- ***Program Committee, Planning Committee, and Food and Beverage Committee Member*** – 29<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, 2016-2018.
- ***Invited Reviewer*** – Department of Commerce VORTEX-SE Proposals (2017-2018, 2018-2019 FY), 2017, 2018.
- ***Conference Organizer Co-Chair*** – 28<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Portland, OR, 2014-2016
- ***Invited Guest Speaker*** – Athens AM radio show (WATH): The Kim and Ruth Show, 8/5/2015
- ***Faculty Representative*** – Ohio University Chapter of the American Meteorological Society, 2013-2019

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- *Planning Committee Member* –27<sup>th</sup> Conference on Severe Local Storms, American Meteorological Society, Madison, WI, 2014
- *Student Presentation Judge* –27<sup>th</sup> Severe Local Storms Conference, American Meteorological Society, Madison, WI, 2014
- *Invited Speaker*–McConnelsville Public Library Summer Science Reading Program, June, 2014

### **UNIVERSITY SERVICE**

- *Consultant* – Ohio Up Close Art Exhibit: Turbulence (2019)
- *Invited Panelist* – Graduate Teaching Assistant Orientation (2019)
- *Faculty Support Member* – Ohio University Chapter of the American Meteorological Society (2014-2019)

### **DEPARTMENTAL SERVICE**

- *Communications and Media Committee CHAIR* – Ohio University Geography Department, 2021
- *Graduate Student Committee Member* – Ohio University Geography Department, 2021
- *Presentation for Faculty Discussion Series* – Team based learning – Ohio University Geography Department, 2019.
- *Evaluation Committee Member* – Ohio University Geography Department, 2018-2019
- *Undergraduate Student Committee Member* – Ohio University Geography Department, 2015-2016, 2017-2019
- *Communications/Media Committee Member* – Ohio University Geography Department 2018-2019
- *Awards Committee Member* – Ohio University Geography Department, 2015-2016; 2017-2018
- *Colloquium Committee Member* – Ohio University Geography Department, Spring 2017
- *Evaluation Committee Member* - Ohio University Geography Department, 2013-2014, 2016-2017
- *Ad-hoc Student Assessment Committee Member* – Ohio University Geography Department, 2015
- *Colloquium Committee Member* – Ohio University Geography Department, 2014-2015
- *Graduate Student Committee Member*–Ohio University Geography Department, 2013-2014

### **PROFESSIONAL DEVELOPMENT**

- *Faculty Learning Community: Recruitment and Retention of Women in STEEM (the extra E is for economics)*, Fall 2018-Spring 2019
- *Flipped Classroom Workshop*, Spring semester 2016
- *Bruning Teaching Academy*, 2015-2016 academic year
- *Team Based Learning Community*, Spring semester 2015
- *Tips and Tactics for Grant Writing Workshop*, February, 2015.
- *On the Cutting Edge: Early Career Workshop for Faculty in the Geosciences*, June 22-26, 2014
- *Introduction to Team-based Learning Seminar*, April 15, 2014
- *Service Learning Workshop*, April 3, 2014.
- *Taking Risks in Teaching Learning Community Seminar*, Spring Semester 2014.
- *University of Oklahoma Teaching Scholars Initiative Workshop*, October 2011, 2012
- *University of Oklahoma Graduate Research Assistant Grant Writing Workshop*, Fall 2012
- *Forward to Professorship Workshop for Women*, March 2012
- *University of Oklahoma Graduate Teaching Academy*, Fall 2011 - Spring 2012
- *EPSCOR NSF Grants Workshop*, April 2011



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- *On the Cutting Edge: Preparing for an Academic Career in Geosciences* – August 2008