

**Kelsey N. Ellis**  
The University of Tennessee, Knoxville  
Department of Geography  
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## **AREAS OF ACADEMIC INTEREST**

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Physical geographer specializing in hazards climatology. Studies the interactions of the climate system, natural hazards, and society through the following research areas: severe and hazardous weather risk and vulnerability, urban environments, and spatial climatologies.

## **EDUCATION**

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- 2010 Ph.D. Geography, Florida State University  
Dissertation: Construction and application of a spatial hurricane climatology
- 2007 M.S. Geosciences, Mississippi State University  
Thesis: Variations in diurnal temperature range due to land use/land cover in the southeast United States
- 2005 B.S. Geography and Geosciences, Salisbury University  
Earth and Atmospheric Sciences emphasis

## **ACADEMIC POSITIONS**

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- 2019–Present **Associate Professor**  
Department of Geography, The University of Tennessee, Knoxville
- 2013–2019 **Assistant Professor**  
Department of Geography, The University of Tennessee, Knoxville
- 2010–2013 **Assistant Professor**  
Department of Biological and Environmental Sciences, Longwood University
- 2008–2010 **Graduate Research Assistant**  
Department of Geography, Florida State University
- 2007–2008 **Graduate Teaching Assistant**  
Department of Geography, Florida State University
- 2005–2007 **Graduate Teaching Assistant**  
Department of Geosciences, Mississippi State University

## FUNDED PROJECTS

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- 2023–2024 Without warning: How information sources shaped risk perception during an undetected tornado. Natural Hazards Center, \$7,200. Role: PI with Co-PIs C. Corey\*, M. Faizer, and J. First.
- 2023–2025 While you were sleeping: Improving warning reception and response to nocturnal rapid-onset hazards in the Southeast. National Oceanic and Atmospheric Administration, \$374,800. Role: Co-PI with PI J. First and Co-PI B. Houston. University of Tennessee amount: \$237,265.
- 2023–2024 Planning: CRISES: Southeast Center for Just, Resilient, and Sustainable Ecosystems (SECURE). National Science Foundation. Role: Co-PI with PI C-f. Chen and Co-PI J. First, H. Baroud, and A. Jafari. \$100,000.
- 2022–2024 Understanding and reducing Latinx vulnerabilities to tornadoes in the Southeast. National Oceanic and Atmospheric Administration, \$292,417. Role: Co-PI with PI J. First and Co-PI M. Held.
- 2022–2024 Alerting Elders and Trusted Social Networks Living in EJ Communities About Indoor and Outdoor Risks to Their Health. Tennessee Valley Authority Connected Communities, \$985,000. Role: Co-PI with PI Three<sup>3</sup>, Inc., and other Co-PIs and partners at the University of Tennessee, SEED, Slipstream Inc., and Nexus Insight Advisors. University of Tennessee amount: \$334,183.
- 2022 National Integrated Heat Health Information System and Climate Adaptation Planning and Analytics Strategy Urban Heat Island Mapping Campaign for Knoxville, Tennessee. National Oceanic and Atmospheric Administration, \$12,000. Role: Co-PI with PI J. First and Co-PI K. Kitzinger.
- 2021–2022 Beat the heat: Building adaptive capacity of vulnerable populations in Knox County to combined stressors from climate change and urban heat. Institute for a Secure and Sustainable Environment, University of Tennessee, \$42,955. Role: PI with J. First and K. Kitzinger.
- 2021–2022 Tornado and flash flood (TORFF) warnings: Examining climatology, vulnerability, and protective decision-making during dual hazards with opposing safety protocols. Natural Hazards Center, \$7,500. Role: Co-PI with PI J. First and Co-PI S. Strader.
- 2020–2021 Identifying dimensions of vulnerability, inequality, and resilience in Black and Latinx communities in Nashville during a recent EF-3 tornado. Challenge Grant, University of Tennessee, \$2,200. Role: Co-PI with PI J. First and Co-PI M. Held.
- 2020 Playtime in the sunshine: Heat exposure and play behavior of young children on hot days. Summer Undergraduate Research Group Experience, University of

- Tennessee, \$54,170. Role: PI with H. Fouts. *Postponed indefinitely due to COVID-19 limiting access to playground.*
- 2020 Early-career faculty collaboration on wearable sensors for individual temperature monitoring in the Southeastern US. ORAU Events Sponsorship Program, \$4,000. Collaboration with M. Sugg, C. Fuhrmann, A. Hass and J. Runkle.
- 2017–2020 Convective mode and Tennessee tornadoes: Climatology, warning procedures, and false alarm rates. National Oceanic and Atmospheric Administration (NA16OAR4590222), \$83,714. Role: PI with Co-PI L. R. Mason.
- 2016–2020 GP Impact: Engagement of Students and Faculty at Community Colleges to Enhance Recruitment to 4-Year Geoscience Programs. National Science Foundation, \$415,988. Role: Faculty Associate (PIs: S. Horn and L. McKay).
- 2015–2019 Tornado warning response in the Southeast: Advancing knowledge for action in Tennessee. National Oceanic and Atmospheric Administration (NA15OAR4590225), \$248,217. Role: PI with Co-PI L. R. Mason.
- 2016–2017 Socially responsible stormwater management in the face of climate change uncertainty. Institute for a Secure and Sustainable Environment, \$50,000. Role: Co-PI with PIs A. Khojandi, X. Li, L. R. Mason, and J. M. Hathaway.
- 2015–2017 Sensing for Sustainability: Opportunities for Environmental Education, Research, and Stewardship through Sensing Campus Environmental Data. UTK Green Fee, \$36,320. Role: Co-PI with PI J. Hathaway.
- 2015–2016 Microenvironments, vulnerability, and resilience in the City of Knoxville. Institute for a Secure and Sustainable Environment, The University of Tennessee, \$54,619. Role: PI with L. R. Mason and J. Hathaway.
- 2014–2015 Microenvironments, vulnerability, and resilience in the City of Knoxville. Institute for a Secure and Sustainable Environment, The University of Tennessee, \$70,079. Role: PI with L. R. Mason and J. Hathaway.
- 2013 Southeastern Conference Faculty Travel Grant. Support for collaboration with Department of Geography and Anthropology, Louisiana State University, \$2,500.
- 2012 Summer of Learning: Science teachers investigating the Chesapeake environment (SOLstice). Virginia Resource Use Education Council, \$11,000. Role: PI with M. Fink, S. Donnelly, M. Rhoten, and K. Register.
- 2011 Great Investigations: Development of a Great Plains Field course. Faculty Development Award, University Committee on Faculty Development, Longwood University, \$1,425. Role: PI.

Summer of Learning: Science teachers investigating the Chesapeake environment (SOLstice). Virginia Resource Use Education Council, \$11,000. Role: PI with A. Fink, M. Fink, S. Donnelly, M. Rhoten, and K. Register.

2009 Construction and application of a spatial hurricane climatology. Dissertation Improvement Grant. The Graduate School at Florida State University, \$700.

## PUBLICATIONS

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\* graduate student author; \*\* undergraduate student author

### *Peer-Reviewed Journal Articles*

**2023** Ellis, K., J. First, S. Strader, N. Grondin\*, D. Burow, and Z. Medley\*\*: The climatology, vulnerability, and public perceptions associated with overlapping tornado and flash flood warnings in a portion of the southeast United States. *Weather, Climate, and Society*, 15, doi: 10.1175/WCAS-D-23-0018.1.

Burow, D.\* , A. Cannistraci\*, S. Collins-Key\*, H. Davis\*, W. Goldman\*, N. Grondin\*, D. Maguire\*, and K. Ellis: Relating weather trends and residence length to local climate change concerns in Knoxville, Tennessee. *Geographical Review*, doi: 10.1080/00167428.2023.2239879.

Burow, D.\* , K. Ellis, and J. First: Intended response to tornado watches among Tennessee residents. *Weather, Climate, and Society*, 15, 59–73, doi: 10.1175/WCAS-D-22-0066.1.

**2022** First, J., K. Ellis, and S. Strader: Double trouble: Examining public protective decision-making during concurrent tornado and flash flood threats in the U.S. Southeast. *International Journal of Disaster Risk Reduction*, 81, doi: 10.1016/j.ijdr.2022.103297.

Hass, A., K. McCanless\*\*, W. Cooper\*\*, K. Ellis, C. Fuhrmann, K. Kintziger, M. Sugg, and J. Runkle: Heat Exposure Misclassification: Do current methods of classifying diurnal range in individually experienced temperatures and heat indices accurately reflect personal exposure? *International Journal of Biometeorology*, 66, 1339–1348, doi: 10.1007/s00484-022-02280-8.

**2021** Burow, D.\* and K. Ellis: Precipitation and synoptic weather types on hazardous weather days in the southeastern United States. *Theoretical and Applied Climatology*, 146, 213–219, doi: 10.1007/s00704-021-03732-8.

Grondin, N. S.\* and K. N. Ellis: Tropical cyclone occurrence dates in the North Atlantic and Eastern North Pacific Basins: Climatology, trends, and correlations with overall seasonal activity. *Theoretical and Applied Climatology*, 146, 311–329, doi: 10.1007/s00704-021-03734-6.

- First, J. M., **K. N. Ellis**, M. Held, and F. Glass: Identifying Risk, Vulnerability, and Resilience Factors Among Black and Latinx Adults Following the March 2020 Nocturnal Tornadoes in Middle Tennessee. *International Journal of Environmental Research and Public Health*, 18, 8609, doi: 10.3390/ijerph18168609.
- Burow, D.\* , **K. Ellis**, and L. Tran: Simultaneous and collocated tornado and flash flood (TORFF) warnings associated with tropical cyclones in the contiguous United States. *International Journal of Climatology*, doi:10.1002/ joc.7071.
- 2020 Ellis, K. N.**, L. R. Mason, and K. Hurley: In the dark: Public perceptions of and National Weather Service forecaster considerations for nocturnal tornadoes in Tennessee. *Bulletin of the American Meteorological Society*, 101, doi:10.1175/BAMS-D-19-0245.1.
- Burow, D.\* , H. Herrero, and **K. Ellis**: Damage analysis of three long-track tornadoes using high-resolution satellite imagery. *Atmosphere*, 11, 613; doi:10.3390/atmos11060613.
- Walters, J. E.\* , L. R. Mason, **K. N. Ellis**, and B. Winchester\*: Staying safe in a tornado: A qualitative inquiry into public knowledge, access, and response to tornado warnings. *Weather and Forecasting*, 35, 67–81, doi:10.1175/WAF-D-19-0090.1.
- Ellis, K. N.**, D. Burow,\* K. N. Gassert\*, L. R. Mason, and M. Porter\*\*: Forecaster perceptions and climatological analysis of the influence of convective mode on tornado climatology and warning success. *Annals of the American Association of Geographers*, 110, 1075–1094, doi:10.1080/24694452.2019.1670042.
- 2019 Senkbeil, J. K. N. Ellis**, and J. Reed\*: The influence of tornado activity, impact, memory, and sentiment on tornado perception accuracy among college students. *Atmosphere*, 10, doi:10.3390/atmos10120732.
- Hass, A. L.\* and **K. N. Ellis**: Motivation for heat adaption: How perception and exposure affect individual behaviors during hot weather in Knoxville, Tennessee. *Atmosphere*, 10, doi:10.3390/atmos10100591.
- Mason, L. R., **K. N. Ellis**, and J. Hathaway: Urban Flooding, Social Equity, and “Backyard” Green Infrastructure: An Area for Multidisciplinary Practice. *Journal of Community Practice*, doi:10.1080/10705422.2019.1655125.
- Hass, A. L.\* and **K. N. Ellis**: Using wearable sensors to assess how a heatwave affects individual heat exposure, perceptions, and adaption methods. *International Journal of Biometeorology*, 63, 1585–1595, doi:10.1007/s00484-019-01770-6.
- Ellis, K. N.**, L. R. Mason, and K. N. Gassert\*: Public understanding of local tornado characteristics and perceived protection from land-surface features in Tennessee, USA. *PLoS ONE*, 14: e0219897, doi:10.1371/journal.pone.0219897.

Walters, J. E.\*, L. R. Mason, and **K. N. Ellis**: Examining patterns of intended response to tornado warnings among residents of the Southern U.S. through a latent class analysis approach. *International Journal of Disaster Risk Reduction*, 34, 375–386, doi:10.1016/j.ijdr.2018.12.007.

**2018** Mason, L. R., J. Erwin\*, A. Brown\*, **K. Ellis**, and J. Hathaway. Health Impacts of Extreme Weather Events: Exploring Protective Factors with a Capitals Framework. *Journal of Evidence-Based Social Work*, 15, 579–593, doi:10.1080/23761407.2018.1502115.

**Ellis, K. N.**, L. R. Mason, K. N. Gassert\*, J. B. Elsner, and T. Fricker\*: Public perception of climatological tornado risk in Tennessee, USA. *International Journal of Biometeorology*, 62, 1557–1566, doi:10.1007/s00484-018-1547-x.

**Ellis, K. N.** and S. Tennille\*: Reply to “Comments on ‘Spatial and temporal trends in the location of the lifetime maximum intensity of tropical cyclones.’” *Atmosphere*, 9, doi:10.3390/atmos9070242.

Mason, L. R., **K. N. Ellis**, B. Winchester\*, and S. Schexnayder: Tornado warnings at night: Who gets the message? *Weather, Climate, and Society*, doi:10.1175/WCAS-D-17-0114.1.+

+Paper of note in the August 2018 issue of the *Bulletin of the American Meteorological Society*.

**2017** Tennille, S.\* and **K. Ellis**: Spatial and temporal trends in the location of the lifetime maximum intensity of tropical cyclones. *Atmosphere*, 8, doi:10.3390/atmos8100198.

Howe\*, D. A., J. M. Hathaway, **K. N. Ellis**, and L. R. Mason: Spatial and temporal variability of air temperature across urban neighborhoods with varying amounts of tree canopy. *Urban Forestry & Urban Greening*, 27, 109–116, doi:10.1016/j.ufug.2017.07.001

Trepanier, J. C., H. Needham, and **K. N. Ellis**: Understanding the influence of tropical cyclone landfall central pressure and accumulated rainfall on storm surge near New Orleans, Louisiana. *Journal of Coastal Research*, doi:10.2112/JCOASTRES-D-16-00117.1.

**Ellis, K. N.**, J. M. Hathaway, L. R. Mason, D. A. Howe\*, T. H. Epps\*, and V. M. Brown\*: Summer temperature variability across four urban neighborhoods in Knoxville, Tennessee, USA. *Theoretical and Applied Climatology*, 127, 701–710, doi:10.1007/s00704-015-1659-8.

Mason, L. R., **K. N. Ellis**, and J. M. Hathaway: Experiences of urban environmental conditions in socially and economically diverse neighborhoods. *Journal of Community Practice*, 25, 48–67, doi:10.1080/10705422.2016.1269250.

- Mason, L. R., J. M. Hathaway, **K. N. Ellis**, and T. Harrison\*: Public interest in microclimate data in Knoxville, Tennessee, USA. *Sustainability*, 9, doi:10.3390/su9010023.
- 2016** Brown, V. M.\*, **K. N. Ellis**, and S. Bleakney\*: Tennessee tornado climate: A comparison of three cities. *Southeastern Geographer*, 56, 118–133, doi:10.1353/sgo.2016.0008.
- Ellis, K. N.**, J. C. Trepanier, and R. E. Hodges: Using synthetic tropical cyclones to characterize extreme hurricanes affecting Charleston, South Carolina. *Journal of Applied Meteorology and Climatology*, doi:10.1175/JAMC-D-15-0215.1.
- Hass, A. L.\*, **K. N. Ellis**, L. R. Mason, J. M. Hathaway, and D. A. Howe\*: Heat and humidity in the city: Neighborhood heat index variability in a mid-sized city in the United States. *International Journal of Environmental Research and Public Health*, 13, 117, doi:10.3390/ijerph13010117.
- 2015** Trepanier, J. C., **K. N. Ellis**, and C. S. Tucker\*: Hurricane risk variability along the Gulf of Mexico coastline. *PLoS ONE*, 10, e0118196, doi:10.1371/journal.pone.0118196.
- Jones, J. R.\*, J. S. Schwartz, **K. N. Ellis**, J. Hathaway, and C. M. Jawdy: Temporal Variability of Precipitation in the Upper Tennessee Valley. *Journal of Hydrology: Regional Studies*, 3, 125–138, doi:10.1016/j.ejrh.2014.10.006.
- Ellis, K. N.**, L. M. Sylvester\*, and J. C. Trepanier: Spatiotemporal patterns of extreme hurricanes impacting U.S. coastal cities. *Natural Hazards*, 75, 2733–2749, doi:10.1007/s11069-014-1461-4.
- 2014** Dixon, P. G., M. Sinyor, A. Schaffer, A. Levitt, C. R. Haney, **K. N. Ellis**, and S. C. Sheridan: Association of Weekly Suicide Rates with Temperature Anomalies in Two Different Climate Types. *International Journal of Environmental Research and Public Health*, 11, 11627–11644, doi:10.3390/ijerph11111627.
- Trepanier, J. C. and **K. N. Scheitlin**: Hurricane wind risk in Louisiana. *Natural Hazards*, 70, 1181–1195, doi:10.1007/s11069-013-0869-6.
- 2013** **Scheitlin, K. N.**: The maritime influence on diurnal temperature range in the Chesapeake Bay area. *Earth Interactions*, 17, doi:10.1175/2013EI000546.1.
- Elsner, J. B., L. E. Michaels\*, **K. N. Scheitlin**, and I. J. Elsner\*\*: The decreasing population bias in tornado reports across the Central Plains. *Weather, Climate, and Society*, 5, 221–232, doi:10.1175/WCAS-D-12-00040.1.
- Hutton, B.\*, **K. N. Scheitlin**, and P. G. Dixon: Solar cycle extremes as a seasonal predictor of Atlantic-basin tropical cyclones. *Southeastern Geographer*, 53, 50–60, doi:10.1353/sgo.2013.0007.

- Scheitlin, K. N.**, V. Mesev, and J. B. Elsner: Polyline averaging using distance surfaces: a spatial hurricane climatology. *Computers & Geosciences*, 52, 126–131, doi:10.1016/j.cageo.2012.10.012.
- 2012** Donnelly, S. M., A. D. Fink, M. L. Fink, M. L. Lunsford, M. C. Rhoten, and **K. N. Scheitlin**: Full immersion: The Chesapeake Bay watershed as an environment for learning science in a civic context. *Science Education and Civic Engagement*, 4, 34–41.
- 2011** **Scheitlin, K. N.**, J. B. Elsner, S. W. Lewers, J. C. Malmstadt, and T. H. Jagger: Risk assessment of hurricane winds for Eglin Air Force Base in northwestern Florida, USA. *Theoretical and Applied Climatology*, 105, 287–296, doi:10.1007/s00704-010-0386-4.
- 2010** **Scheitlin, K. N.**, J. B. Elsner, J. C. Malmstadt, R. E. Hodges, and T. H. Jagger: Toward increased utilization of historical hurricane chronologies. *Journal of Geophysical Research-Atmospheres*, 115, doi:10.1029/2009JD012424.
- Scheitlin, K. N.** and P. G. Dixon: Diurnal temperature range variability in the Southeast due to land cover and air mass types. *Journal of Applied Meteorology and Climatology*, 49, 879–888, doi:10.1175/2009JAMC2322.1.
- 2009** Malmstadt, J., **K. Scheitlin**, and J. Elsner: Florida hurricanes and damage costs. *Southeastern Geographer*, 49, 108–131, doi:10.1353/sgo.0.0045.
- 2008** Dixon, P. G., M. E. Brown, M. C. Carter, W. S. Gunter, J. S. Allen, A. M. Hayes, L. E. Becker, H. S. Eschete, R. P. Aylward, and **K. N. Scheitlin**: Predicting Atlantic hurricane paths using monthly surface pressure data. *The Geographical Bulletin*, 49, 77–86.
- 2007** Dixon, P. G., A. N. McDonald, **K. N. Scheitlin**, J. E. Stapleton, J. S. Allen, W. M. Carter, M. R. Holley, D. D. Inman, and J. B. Roberts, 2007: Effects of temperature variation on suicide in five U.S. counties, 1991–2001. *International Journal of Biometeorology*, 51, 395–403, doi:10.1007/s00484-006-0081-4.

*Peer-Reviewed Undergraduate Research Journal Articles*

- 2021** Steckler, M.\*\* and **K. Ellis**: Nashville-basin tornadoes: using storm types to elucidate the local climatology and forecasting challenges. *Pursuit - The Journal of Undergraduate Research at the University of Tennessee*, accepted.
- 2019** Unger, J. D.\*\*, Mentor: **K. Ellis**: Analysis of Hurricane Track Forecast Accuracy During the 2018 Season. *Pursuit - The Journal of Undergraduate Research at the University of Tennessee*, 9, Article 6. Available at: <https://trace.tennessee.edu/pursuit/vol9/iss1/6>.
- 2017** Skeen, C.\*\*, Mentors: **K. Ellis**, and L. R. Mason: Spatial analysis of tornado warning system understanding and relationship with tornado occurrence. *Pursuit - The Journal of Undergraduate Research at the University of Tennessee*, 8, Article 17, Available at:



<http://trace.tennessee.edu/pursuit/vol8/iss1/17>.

**2012** Nehrt, J.\*\* , K. Stolzenbach,\*\* and **K. N. Scheitlin**: Facing the music: An environmental impact assessment of building a concert hall on North Campus. *INCITE Journal of Undergraduate Scholarship, Vol. 3*.

Major, K. N.\*\* , C. A. Dunham\*\* , and **K. N. Scheitlin**: Incorporating original research in the classroom: A case study analyzing the influence of the Chesapeake Bay on local temperatures. *INCITE Journal of Undergraduate Scholarship, Vol. 3*.

Taylor, C.\*\* and **K. N. Scheitlin**: The impact of tropical cyclones on Chesapeake Bay dead zones. *MarSci*, 13, 7–12.

#### *Peer-Reviewed Book Chapter*

**2010** **Scheitlin, K. N.** and J. B. Elsner: A track-relative climatology of Eglin Air Force Base hurricanes in a variable climate. *Hurricanes and Climate Change Volume 2*, Springer, 217–229, 10.1007/978-90-481-9510-7\_13.

#### *Public Writing*

**2023** **Ellis, K. N.** and N. Grondin\*: 2023 hurricane season forecast: Get ready for a busy Pacific storm season, quieter Atlantic thanks to El Niño. [The Conversation \(US\)](#). 25 May 2023.

**2021** Hass, A. and **K. N. Ellis**: Why the US Southeast is prone to December tornadoes. [The Conversation \(US\)](#). 11 March 2021.

**2020** **Ellis, K. N.** and A. Hass: Tornadoes that strike at night are more deadly and require more effective warning systems. [The Conversation \(US\)](#). 5 March 2020.  
Republished by at least a dozen other outlets.

#### *Conference Proceedings*

**2023** Bible, B. and others. Affordable Automatic Air Quality Monitoring System for At-risk Homes. *Proceedings of the 2023 IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)*.

**2011** **Scheitlin, K.N.**, V. Mesev and J. B. Elsner: Polyline averaging using distance surfaces: a spatial hurricane climatology. *11<sup>th</sup> International Conference on GeoComputation*, 397–401.

#### *Edited Volume*

**2010** Elsner, J. B., R. E. Hodges, J. C. Malmstadt, and **K. N. Scheitlin** (eds): *Hurricanes and Climate Change Volume 2*, Springer, 255 pp, doi: 10.1007/978-90-481-9510-7.

### Book Review

- 2015** Ellis, K. N., 2015: Review of *Taken by Storm, 1938: A Social and Meteorological History of the Great New England Hurricane*, by Lourdes B. Avilés. *AAG Review of Books*, 3, 167–169, doi:10.1080/2325548X.2015.1077428.

### Reports

- 2015** Mason, L. R., K. N. Ellis, J. Hathaway, and M. K. Shires: *Environmental conditions in the City of Knoxville: Resident perspectives and experiences in four urban neighborhoods*. Research brief prepared for community stakeholders. Knoxville, TN.

### Data Sets

- 2019** Ellis, K. N. and L. R. Mason: Replication for 'Public understanding of local tornado characteristics and perceived protection from land-surface features in Tennessee, USA.' *Open ICPSR*, doi:10.3886/E109964V1.

### Teaching Materials

- 2015** Horn, S. and K. Ellis, in collaboration with H. Grissino-Mayer. *Laboratory Manual for Geography 131: Weather, Climate, and Climate Change*. Knoxville, Tennessee: Department of Geography, University of Tennessee.

## PRESENTATIONS

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\*graduate student author; \*\* undergraduate student author; presenter

### Conference Presentations

- 2023** First, J., S. Lee, E. Norris, K. Kintziger, K. Ellis: Building community capacity to respond to urban extreme heat in Knoxville, Tennessee. Natural Hazards Workshop. Boulder, Colorado. 13 July 2023.

Steckler, M.\* and K. Ellis: Machine learning of tornado-producing mesoscale storm in the Southeast U.S. 2nd Annual Southern Appalachian Weather and Climate Workshop. Asheville, North Carolina. 15 April 2023.

Grondin, N.\* and K. Ellis: Trends in Intensity Change and Translation Speed of Landfalling North American Tropical Cyclones. 2nd Annual Southern Appalachian Weather and Climate Workshop. Asheville, North Carolina. 15 April 2023.

Ellis, K. N., J. First, S. Strader, N. Grondin\*, D. Burow, Z. Medley\*\*: The climatology, vulnerability, and public perceptions associated with overlapping tornado and flash flood

warnings in a portion of the Southeast. 2nd Annual Southern Appalachian Weather and Climate Workshop. Asheville, North Carolina. 15 April 2023.

Grondin, N.\* and **K. Ellis**: Trends in Intensity Change and Translation Speed of Landfalling North American Tropical Cyclones. Annual Meeting of the American Association of Geographers. 26 March 2022.

Ellis, K. N., J. First, K. Kintziger, and E. Hunter\*\*: Beat the heat: Beat the heat: Building adaptive capacity of vulnerable populations in Knox County to combined stressors from climate change and urban heat. GEOSYM. 9 February 2023.

Steckler, M.\* and **K. Ellis**: Machine learning of tornado-producing mesoscale storm in the Southeast U.S. GEOSYM. 9 February 2023.

Grondin, N.\* and **K. Ellis**: A Climatology of Extreme Intensity Change of North Atlantic and Eastern North Pacific Tropical Cyclones Prior to Landfall. GEOSYM. 9 February 2023.

First, J. M., **K. Ellis**, and S. Strader: Examining Public Protective Actions During Simultaneous Tornado and Flash Flood Threats in the U.S. Southeast. Annual Conference of the Society for Social Work and Research.

Kintziger, K., J. First, and **K. Ellis**: Understanding Urban Heat Island Vulnerabilities to Build Adaptive Capacity Among Vulnerable Populations in a Southeastern City. American Meteorological Society's 14th Conference on Environment and Health. 11 January 2023.

Grondin, N. S.\*, and **K. N. Ellis**: A Climatology of Extreme Intensity Change of North Atlantic and Eastern North Pacific Tropical Cyclones Prior to Landfall. 103rd Annual Meeting of the American Meteorological Society/Fifth Special Symposium on Tropical Meteorology and Tropical Cyclones. Denver, CO. (poster)

**2022** Grondin, N. S.\*, and **K. N. Ellis**: A climatology of extreme intensity change of North Atlantic and Eastern North Pacific tropical cyclones prior to landfall. Annual Meeting of the Southeast Division of the American Association of Geographers. 20 November 2022.

Ellis, K. N., J. First, K. Kintziger, C. Fuhrmann, and E. Hunter\*\*: Overnight heat in indoor and outdoor living spaces of Knoxville residents. Annual Meeting of the Southeast Division of the American Association of Geographers. 20 November 2022.

Hunter, E.\*\*, **K. N. Ellis**, J. First, and K. Kintziger: Beat the heat: Building adaptive capacity of vulnerable populations in Knox County to combined stressors from climate change and urban heat. Institute for a Secure and Sustainable Environment Research Conference. 15 September 2022.

Grondin, N. S.\*, and **K. N. Ellis**: A Spatial Climatology of Tropical Cyclone Intensity Change at Landfall in the Eastern North Pacific Basin. 35th AMS Conference on Hurricanes and Tropical Meteorology. New Orleans, Louisiana, poster.

Medley, Z.\*\*, **K. Ellis**, N. Grondin\*, and D. Burow: Types of convective storms causing overlapping Tornado and Flash Flood warnings in the Southeast United States. Southern Appalachian Weather and Climate Workshop, Asheville, North Carolina, poster. 26 March 2022.

**K. N. Ellis**, N. Grondin\*, D. Burow, A. Cannistraci, S. Collins-Key\*, H. Davis\*, W. Goldman, and D. Maguire: Perceived and observed extreme weather trends and their relation to climate change concerns and beliefs in Knoxville, Tennessee. Southern Appalachian Weather and Climate Workshop, Asheville, North Carolina. 26 March 2022.

Hass, A. L., A. Montebancho, M. Sugg, J. Runkle, and **K. Ellis**: Heat perception and adaptation among college students in the southeastern United States. Annual Meeting of the American Association of Geographers, virtual paper. 28 February 2022.

**Ellis, K.**, J. First, S. Strader, N. Grondin, D. Burow, Z. Medley: Overlapping Tornado and flash flood (TORFF) warnings: Examining their climatology and residents' perceptions in the Southeast. Annual Meeting of the American Association of Geographers, virtual paper. 28 February 2022.

Grondin, N.\* and **K. Ellis**: Caribbean Sea Level Pressure Anomalies as a Predictor of the Timing of a Season's First and Second Atlantic Hurricanes. Annual Meeting of the American Meteorological Society, Houston, Texas, poster. January 2022.

First, J., M. Held, and **K. Ellis**: Examining Barriers, Stressors, and Protective Factors Impacting Tornado Preparedness and Recovery in Black and Latinx Adults in Middle Tennessee. Annual Meeting of the Society for Social Work and Research, Washington D.C., poster. January 2022.

**2021** Hass, A., C. Fuhrman, C., M. Sugg, K. McCanless, W. Cooper, K. Kintziger, **K. Ellis**: Heat exposure misclassification: Do current methods of classifying diurnal range in individually experienced temperatures and heat indices accurately reflect personal exposure? International Congress of Biometeorology, virtual presentation. 22 September 2021.

Fuhrman, C., M. Sugg, A. Hass, **K. Ellis**, and J. Runkle: A climatological analysis of the daily range in warm-season temperature and heat index in the Southeast United States. International Congress of Biometeorology, virtual presentation. 22 September 2021.

Grondin, N. S.\* and **K. N. Ellis**: An Analysis of Tropical Cyclone Occurrence Dates in the Eastern North Pacific. 34th AMS Conference on Hurricanes and Tropical Meteorology, virtual poster. 10 May 2021.

Grondin, N. S.\*, and **K. N. Ellis**: A Comparison of Tropical Cyclone Occurrence Dates between the North Atlantic and Eastern North Pacific Basins. 2021 Annual Meeting of the American Association of Geographers, virtual poster. 9 April 2021.

Grondin, N. S.\* and **K. N. Ellis**: Trends in North Atlantic n<sup>th</sup> Tropical Cyclone Occurrence Dates from 1970 to 2019. 2021 UTK Department of Geography GeoSym, virtual. 18 March 2021.

**K. N. Ellis**, D. Burow\*, A. Cannistraci\*, S. Collins-Key\*, H. Davis\*, W. Goldman\*, N. Grondin\*, D. Maguire\*, and L. Reyes Mason: Climate change and extreme weather trends: Is what you see what you believe? 2021 UTK Department of Geography GeoSym, virtual. 18 March 2021.

**2020** Grondin, N. S.\* and **K. N. Ellis**: A climatology of Eastern North Pacific tropical cyclone occurrence dates. Annual Meeting of the Southeastern Division of the American Association of Geographers, virtual. 6 November 2020.

Burow, D. and **K. Ellis**: Simultaneous tornado and flash flood events during tropical cyclones. Annual Meeting of the American Association of Geographers, Denver, Colorado. 9 April 2020. *Cancelled due to COVID-19.*

**Ellis, K. N.**, D. Burow, K. Gassert, L. R. Mason, and M. Porter: Forecaster perceptions and climatological analysis of the influence of convective mode on tornado climatology and warning success. Annual Meeting of the American Association of Geographers, Denver, Colorado. 9 April 2020. *Cancelled due to COVID-19.*

Goldman, W. and **K. Ellis**: Analyzing the interaction of increased frequency of oppressive weather types and expanded urbanization in the eastern United States. Annual Meeting of the American Association of Geographers, Denver, Colorado. 8 April 2020. *Cancelled due to COVID-19.*

Mason, L. R., **K. N. Ellis**, and J. M. Hathaway: Urban flooding, social equity, and “backyard” green infrastructure. Annual Meeting of the Society for Social Work and Research, Washington D.C. 18 January 2020.

Collins-Key, S., **K. N. Ellis**, and L. R. Mason: The perception of flash flood risk among emergency managers in the NWS-MRX county warning area. Annual Meeting of the American Meteorological Society, Boston, Massachusetts. 15 January 2020.

**2019** **Ellis, K. N.** and L. R. Mason: Forecaster perceptions and climatological analysis of the influence of convective mode on tornado climatology and warning success. VORTEX-SE Workshop, Huntsville, Alabama. 12 September 2019. Poster.

Cannistraci, A.\*, **K. N. Ellis**, and Y. Hu: Spatiotemporal Analysis of Forecasted Natural Hazard Risk via Twitter Data. Annual Meeting of the American Association of Geographers, Washington, D. C. 6 April 2019. Poster.

Burow, D.\* and **K. N. Ellis**: Climatological analysis of hazardous precipitation in southeastern United States. Annual Meeting of the American Association of Geographers, Washington, D. C. 5 April 2019.

Hass, A. L.\* and **K. N. Ellis**: Motivation for heat adaption: How perception and exposure affect individual behaviors during hot weather in Knoxville, Tennessee. Annual Meeting of the American Association of Geographers, Washington, D. C. 5 April 2019.

Porter, M.\*\* and **K. N. Ellis**: Convective Mode and Communication in Tennessee: Tornado Warning Challenges for Forecasting within the National Weather Service. Annual Meeting of the American Association of Geographers, Washington, D. C. 4 April 2019. Poster.

Steckler, M.\*\* and **K. N. Ellis**: Movement of lifetime maximum intensity locations during the North Atlantic hurricane season. Annual Meeting of the American Association of Geographers, Washington, D. C. 4 April 2019. Poster.

Ellis, K. N., J. T. Trepanier, A. M Cannistraci\*, D. Burow\*, M. Steckler\*\*, and D. C. Smith\*: Comparison of individual tropical cyclone characteristics from the 2018 hurricane season to the local climatology. Annual Meeting of the American Association of Geographers, Washington, D. C. 3 April 2019.

Burow, D.\*, and **K. N. Ellis**: Patterns in tornadic storm modes in Tennessee NWS County Warning Areas. Southeast Severe Storms Symposium, Starkville, Mississippi. 23 March 2019. Poster.

Ellis, K. N. and L. R. Mason: Nocturnal tornadoes in Tennessee: Climatology, Public Perception, and Communication Challenges. Southeast Severe Storms Symposium, Starkville, Mississippi. 23 March 2019.

Mason, L. R., J. E., Walters\*, and **K. N. Ellis**: Tornado safety at night: Understanding public receipt of and response to warnings. 2019 Annual Conference of the Society for Social Work and Research, San Francisco, CA. 17 January 2019.

**2018** Hass, A. L.\* and **K. N. Ellis**: Effects of socioeconomic characteristics on exposure to heat advisory conditions and perception of heat in Knoxville, Tennessee. Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, Tennessee. 19 November 2018.

Burow, D.\* and **K. Ellis**: Climatological analysis of hazardous precipitation in Knoxville, Tennessee, USA. Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, Tennessee. 19 November 2018. Poster.

Steckler, M.\*\*, R. Russ\*\*, **K. Ellis**, and L. R. Mason: How different storm types contribute to tornadoes, false alarms, and forecasting challenges in East Tennessee.

Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, Tennessee. 18 November 2018. Poster.

**Ellis, K. N.** and L. R. Mason: An interdisciplinary approach to understanding public safety challenges from nocturnal tornadoes. American Meteorological Society's Conference on Severe Local Storms, Stowe, Vermont. 22 October 2018.

**Brooks, S.**, T. Lee, M. Buban, B. Baker, P. Krishnan, E. Dumas, **K. Ellis**, and D. Burow: Airborne Thermal and Hyperspectral Imaging to Estimate Sensible and Latent Heat Fluxes during the LAFE Study. 23<sup>rd</sup> Symposium on Boundary Layers and Turbulence, American Meteorological Society, Oklahoma City, Oklahoma. 14 June 2018.

**Ellis, K. N.**, L. Mason, K. Gassert\*, and D. Burow\*: Convective mode of storms producing tornadoes in Tennessee: Climatology and implications for forecasters. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana. 14 April 2018.

**Burow, D.\***, E. MacLennan\*, **K. Ellis**, and L. Mason: How convective mode types contribute to tornadoes and "false alarms" in the mid-South. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana. 11 April 2018.

**MacLennan, E.\***, S. P. Horn, M. T. Kerr\*, C. Lane, and **K. Ellis**: A compound-specific hydrogen isotope record of precipitation from coastal north Hispaniola. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana. 10 April 2018.

**McKay, L. D.**, S. P. Horn, K. S. Drumheller, C. Sumrall, **K. N. Ellis**, and A. D. Steen. Engaging community college transfer students in experiential learning at the University of Tennessee. *Geological Society of America, Southeast Section Meeting*. 12 March 2018.

**Ellis, K. N.** and S. A. Tennille\*: Migration of the lifetime maximum intensity of tropical cyclones. GeoSym, University of Tennessee, Knoxville, Tennessee. 16 February 2018.

**Burow, D.\*** and **K. N. Ellis**: Analysis of tornadic storm modes in Tennessee National Weather Service county warning areas. GeoSym, University of Tennessee, Knoxville, Tennessee. 16 February 2018.

**Ellis, K. N.** and S. A. Tennille\*: Locations where tropical cyclones reach their maximum intensities: Trends and potential human impacts. Disasters, Displacement, and Human Rights Conference, University of Tennessee, Knoxville, Tennessee. 10 February 2018.

**Mason, L. R.**, J. Erwin\*, A. Brown\*, **K. N. Ellis**, and J. M. Hathaway: Health and financial impacts of extreme weather in the city. Annual Conference of the Society for Social Work and Research, Washington, DC. January 2018.

**2017** Ellis, K. N. and L. R. Mason: Physical and social characteristics of nocturnal tornado risk and vulnerability in Tennessee. Annual Meeting of the Southeastern Division of the American Association of Geographers, Starkville, Mississippi. 20 November 2017.

Burow, D. A.\*, K. N. Gassert\*, **K. N. Ellis**, L. R. Mason, and M. D. Hudson\*\*. Patterns in tornadic storm modes in the Tennessee area and potential implications for forecasters. Annual Meeting of the Southeastern Division of the American Association of Geographers, Starkville, Mississippi. 20 November 2017.

Ellis, K. N., L. R. Mason, K. N. Gassert\*, and M. E. Winchester\*: Nocturnal tornadoes in Tennessee, USA: An interdisciplinary approach to understanding public safety challenges. 21st International Congress of Biometeorology, Durham, UK. 6 September 2017.

Skeen, C\*\*, **K. N. Ellis**, and L. R. Mason. Spatial analysis of tornado warning system understanding and relationship with tornado occurrence. Exhibition of Undergraduate Research and Creative Achievement. 17 April 2017. Poster.

Ellis, K. N., L. R. Mason, K. N. Gassert\*, J. B. Elsner, and T. Fricker\*: A comparison of perceived and climatological risk to tornadoes surrounding three Tennessee cities. 113<sup>th</sup> Annual Meeting of the American Association of Geographers, Boston, Massachusetts. 8 April 2017.

Mason, L. R., **K. N. Ellis**, and J. M. Hathaway. Data to the People: Public Interest in Neighborhood-Scale Environmental Data. 21<sup>st</sup> Annual Conference of the Society for Social Work and Research. New Orleans, Louisiana. January 2017.

**2016** Gassert, K. N.\*, **K. N. Ellis**, and L. R. Mason. Convective mode of Tennessee tornado events. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, South Carolina. 20 November 2016. Poster.

McKay, L. D., S. P. Horn, K. A. Affholter, S. C. Cropper, S. K. Drumheller, **K. N. Ellis**, K. Fristoe, C. S. Hadjiharalambous, A. C. Lee, J. Jones, A. D. Steen, and C. D. Sumrall: Engaging community college transfer students in Tennessee to improve recruitment, retention, and success in 4-year geoscience programs. Annual Meeting, Geological Society of America, Denver, Colorado. 26 September 2016.

Hass, A. L.\*, **K. N. Ellis**, L. R. Mason, and J. M. Hathaway: Heat and humidity in the city: Neighborhood heat index variability in a mid-sized city in the Southeastern United States. 112<sup>th</sup> Annual Meeting of the American Association of Geographers, San Francisco, California. 30 March 2016.

Ellis, K. N., J. M. Hathaway, and L. R. Mason: The Knoxville Urban Observatory: Past, present, and future of urban microclimate analysis in Knoxville, Tennessee. 112<sup>th</sup> Annual Meeting of the American Association of Geographers, San Francisco, California. 31 March 2016.



**Ellis, K. N.**, J. M. Hathaway, and L. R. Mason: The Knoxville Urban Observatory: Assessing Physical and Social Environmental Conditions in Urban Neighborhoods. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 5 February 2016.

**Hass, A. L.\***, **K. N. Ellis**, L. R. Mason, and J. M. Hathaway: Heat and humidity in the city: Neighborhood heat index variability in a mid-sized city in the Southeastern United States. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 5 February 2016.

**Sylvester, L. M.\*** and **K. N. Ellis**: Examining extreme precipitation through temporal resolution. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 5 February 2016.

**Brown, V. M.\*** and **K. N. Ellis**: Tennessee tornado outbreaks and the El Niño Southern Oscillation Index. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 5 February 2016.

**Mason, L. R.**, **K. N. Ellis**, and J. M. Hathaway: Urban Environmental Conditions in Socially and Economically Diverse Neighborhoods. 20<sup>th</sup> Annual Conference Anniversary Celebration of the Society for Social Work and Research, Washington, DC. 14 January 2016.

**2015** **Ellis, K.**, V. Brown\*, L. Reyes Mason, and J. Hathaway: Diurnal temperature cycles of urban neighborhoods in Knoxville, Tennessee. Annual Meeting of the Southeastern Division of the American Association of Geographers, Pensacola, Florida. 23 November 2015.

**Ellis, K. N.**, J. C. Trepanier, and L. M. Sylvester\*: Decadal clusters of extreme hurricane wind events. 5<sup>th</sup> International Summit on Hurricanes and Climate Change. Chania, Greece. 9–14 June 2015. Poster.

**Trepanier, J. C.**, **K. N. Ellis**, and C. Tucker\*: Hurricane risk variability along the Gulf of Mexico coastline. 111<sup>th</sup> Annual Meeting of the American Association of Geographers, Chicago, Illinois. 23 April 2015.

**Ellis, K. N.**, J. C. Trepanier, and L. M. Sylvester\*: Spatiotemporal patterns of extreme hurricanes impacting U.S. coastal cities. 111<sup>th</sup> Annual Meeting of the American Association of Geographers, Chicago, Illinois. 23 April 2015.

**2014** **Ellis, K.**, D. Howe\*, J. Hathaway, L. Reyes Mason, and V. Brown\*: Summer in the city: Climate variability across four Knoxville neighborhoods. Annual Meeting of the Southeastern Division of the American Association of Geographers, Athens, Georgia. 24 November 2014.

Brown, V.\*, **K. Ellis**, and S. Bleakney\*\*: Tennessee tornado threat: Risk variability across the Volunteer State. Annual Meeting of the Southeastern Division of the American Association of Geographers, Athens, Georgia. 24 November 2014.

Dixon, P. G., A. J. Kalkstein, M. Sinyor, A. Schaffer, A. Levitt, C. R. Haney, **K. N. Ellis**, and S. C. Sheridan: Statistical models of weather and suicide: Can we use temperature to predict suicide rates? 33<sup>rd</sup> Annual Psychological and Educational Research in Kansas (PERK) / Nebraska Psychological Society (NPS) Joint Conferences, Fort Hays State University, Hays, Kansas. 15 November 2014.

**Scheitlin, K. N.**, J. C. Trepanier and R. E. Hodges: Using synthetic tropical cyclones to characterize extreme hurricanes for Charleston, South Carolina. Annual Meeting of the American Association of Geographers, Tampa, Florida. 9 April 2014.

Trepanier, J. C. and **K. N. Scheitlin**: Hurricane wind risk in Louisiana. 110<sup>th</sup> Annual Meeting of the American Association of Geographers, Tampa, Florida. 9 April 2014.

**Scheitlin, K. N.**, J. C. Trepanier and R. E. Hodges: Using synthetic tropical cyclones to characterize extreme hurricanes for Charleston, South Carolina. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 21 February 2014.

Sylvester, L. M. and **K. N. Scheitlin**: Spatiotemporal clustering of extreme hurricane wind events impacting U.S. coastal cities. The University of Tennessee Department of Geography Research Symposium, Knoxville, Tennessee. 21 February 2014.

**2013** **Scheitlin, K. N.**: The maritime influence on diurnal temperature range in the Chesapeake Bay area. Annual Meeting of the Southeastern Division of the American Association of Geographers, Roanoke, Virginia. 25 November 2013.

**Scheitlin, K. N.**, J. C. Trepanier and R. E. Hodges: On the spatial patterns of extreme tropical cyclones: A case study of Charleston, South Carolina. 4th International Summit on Hurricanes and Climate Change, Kos, Greece. 13–18 June 2013. Poster.

**Scheitlin, K. N.** and J. B. Elsner: The decreasing population bias in tornado reports. 109<sup>th</sup> Annual Meeting of the American Association of Geographers, Los Angeles, California. 10 April 2014.

**2012** **Scheitlin, K. N.** and A. D. Fink: The SOLstice watershed education experience. International Conference on Science Society and Sustainability. Lady Doak College, Madurai, India. 10–12 January 2012. Poster.

Register, K. and **K. N. Scheitlin**: Partnerships for furthering environmental education: Colleges in the community. International Conference on Science Society and Sustainability, Lady Doak College, Madurai, India. 10–12 January 2012.

- Scheitlin, K. N.**: Spatial climatologies of hurricane intensities. 108<sup>th</sup> Annual Meeting, American Association of Geographers, New York, New York. 24 February 2012.
- Nehrt, J.\*\*, A. Russel\*\*, D. Sedo\*\*, K. Stolzenbach\*\* and **K. Scheitlin**: Facing the Music: An environmental impact assessment of building a concert hall on North Campus. Cormier Honors College Research Symposium, Longwood University, Farmville, Virginia. 17 April 2012. Poster.
- 2011** Stott, J.\*\* and **K. Scheitlin**: A climatological analysis of Athens, Georgia. Cormier Honors College Research Symposium, Longwood University, Farmville, Virginia. Poster.
- Scheitlin, K.N.**, V. Mesev and J. B. Elsner: Polyline averaging using distance surfaces: a spatial hurricane climatology. 11<sup>th</sup> International Conference on GeoComputation, London, England. 20–22 July 2011.
- 2010** Malmstadt, J. C. and **K. N. Scheitlin**: Hurricanes and pollution: Human affecting or human affected? Environmental Action Research Symposium, Florida State University, Tallahassee, Florida.
- Scheitlin, K. N.** and J. B. Elsner: A geographic approach to hurricane climatology research. 106<sup>th</sup> Annual Meeting of the American Association of Geographers, Washington DC.
- 2009** **Scheitlin, K. N.** and J. B. Elsner: A track-relative climatology of hurricanes affecting Eglin Air Force Base. Annual Meeting of the American Geophysical Union, San Francisco, California. Poster.
- Scheitlin, K. N.**, J. C. Malmstadt, R. Hodges, J. B. Elsner and T. H. Jagger: Toward increased utilization of historical hurricane chronologies. 2<sup>nd</sup> International Summit on Hurricanes and Climate Change, Corfu, Greece.
- Scheitlin, K. N.**, J. C. Malmstadt, R. Hodges, J. B. Elsner and T. H. Jagger: Toward increased utilization of historical hurricane chronologies. 105<sup>th</sup> Annual Meeting of the American Association of Geographers, Las Vegas, Nevada.
- 2008** **Scheitlin, K. N.**, J. C. Malmstadt, and J. B. Elsner: Increased losses from Florida hurricanes. Annual Meeting of the Southeast Division of the American Association of Geographers. Greensboro, North Carolina.
- Malmstadt, J. C., **K. N. Scheitlin** and J. B. Elsner: Minimum pressure as a predictor of hurricane losses in Florida. Annual Meeting of the Southeast Division of the American Association of Geographers. Greensboro, North Carolina.
- 2007** **Scheitlin, K. N.** and P. G. Dixon: Variations of Diurnal Temperature Range in the Southeast United States Due to Land Use/Land Cover Classification, 1995–2004. 103<sup>rd</sup>

Annual Meeting of the American Association of Geographers, San Francisco, California.

Dixon, P. G., A. N. McDonald, **K. N. Scheitlin**, J. E. Stapleton, J. S. Allen, W. M. Carter, M. R. Holley, D. D. Inman, and J. B. Roberts: Effects of temperature variation on suicide in five U.S. counties, 1991–2001. Annual Meeting of the American Association of Geographers, San Francisco, California.

- 2005** **Scheitlin, K. N.**, S. Jacobs, and B. Zaprowski: Using tombstones to calculate the rate of erosion on the eastern shore of Maryland, 1900–2005. Undergraduate Research Seminar, Salisbury University, Salisbury, Maryland.

**Scheitlin, K. N.** and C. Egan: Appearance-related stereotypes of the female meteorologist. Undergraduate Research Seminar, Salisbury University, Salisbury, Maryland.

*Panel membership*

- 2023** Women in Geography: Academic Career. Annual Meeting of the American Association of Geographers

- 2018** 2017 hurricane season: A new normal? Annual Meeting of the Southeastern Division of the American Association of Geographers

- 2016** Women in Geography. Geography Symposium, The University of Tennessee

- 2014** Student and New Professionals Workshop. 20<sup>th</sup> International Congress of Biometeorology, Cleveland, Ohio

Water resources management in a changing climate. Third Annual Watershed Symposium, The University of Tennessee

*Invited Talks, Guest Lectures, and Other Presentations*

- 2023** **Ellis, K. N., J. First, S. Strader, N. Grondin, D. Burow, Z. Medley** Up or down? Overlapping tornado and flash flood warnings in the Southeast U.S. Klepser Seminar Series. Department of Earth and Planetary Sciences. University of Tennessee. 16 February 2023.

- 2021** **Ellis, K. N.** Lessons in the changing hazard landscape. ALEC 485/585. University of Tennessee. 2 November 2021.

**Ellis, K. N.** In the dark: Tornado trouble in Tennessee. Science Forum. University of Tennessee. 29 October 2021.

- Ellis, K. N.** Variability in Knoxville's urban heat and residential exposure. Social Inequality in Energy, Environment, and Technology Workshop. University of Tennessee. 13 August 2021.
- Ellis, K. N.** Tennessee Tornado Challenges. University of Tennessee Alumni Summer College. 15 June 2021.
- Ellis, K. N.** Climate research in the Department of Geography at the University of Tennessee. Tennessee Climate Data Summit. 26 May 2021.
- Ellis, K. N.** Microclimate studies in Knoxville. Graduate-Level Microclimate Ecology Course. University of Tennessee. 29 March 2021.
- 2019** **Ellis, K. N.** Communication challenges for nocturnal tornadoes in Tennessee. Science Communication Course. University of Tennessee. 4 September 2019.
- Ellis, K. N.** Books Sandwiched In with Knox County Public Libraries: The Cure for Catastrophe. East Tennessee History Center auditorium, Knoxville, Tennessee. 27 March 2019.
- Ellis, K. N.** An interdisciplinary approach to understanding public safety challenges from nocturnal tornadoes in Tennessee. Appalachian State University, Boone, North Carolina. 21 February 2019.
- 2018** **Ellis, K. N.** Keynote lecture. Girls day in STEM-H. Wise, Virginia, 24 September 2018.
- Ellis, K. N.** and L. R. Mason: Tornadoes in Tennessee: Public beliefs and behaviors. 2018 Integrated Warning Team Meeting. City of Knoxville Public Work Building, Knoxville, Tennessee. 4 April 2018.
- Ellis, K. N.** and **L. R. Mason:** Tornadoes in Tennessee: Public beliefs and behaviors. 2018 Memphis National Weather Service Spring Partner's Workshop. Agricenter International, Memphis, Tennessee. 22 March 2018.
- Ellis, K. N.** and L. R. Mason: Tennessee tornado risk and vulnerability: Preliminary findings from interdisciplinary VORTEX-SE projects. NOAA Atmospheric Turbulence and Diffusion Division. Oak Ridge, Tennessee. 26 February 2018.
- Ellis, K. N.** and **L. R. Mason:** Tornadoes in Tennessee: Public beliefs and behaviors. Media Workshop with National Weather Service Nashville. Red Cross, Nashville, Tennessee. 6 February 2018.
- 2017** **Ellis, K. N.** and L. R. Mason: Nocturnal tornadoes in Tennessee: An interdisciplinary approach to understanding public safety challenges. VORTEX-Southeast Workshop, Huntsville, Alabama. 16 November 2017. Poster.

**Ellis, K. N.**: Tornadoes in the dark: Risk and vulnerability to nocturnal tornadoes in Tennessee. Honors Faculty Lecture Series, The University of Tennessee, Knoxville, Tennessee. 21 September 2017.

**Ellis, K. N.** and L. R. Mason: Nocturnal tornadoes in Tennessee: An interdisciplinary approach to understanding public safety challenges. NOAA ATDD and UTK Science Workshop, Knoxville, Tennessee. 12 September 2017.

**Ellis, K. N.**: It can happen here: Toward a tornado-ready Tennessee. University Women's Club, Knoxville, Tennessee. 10 March 2017.

**Ellis, K. N.**: Climate change and implications for Knoxville, Tennessee, Knox County Metropolitan Planning Commission, Knoxville, Tennessee. 7 February 2017.

**2016** **Ellis, K. N.** and L. R. Mason: Tornado warning response in the Southeast: Advancing knowledge for action. VORTEX-Southeast Workshop, Portland, Oregon. 5 November 2016. Virtual presentation to live audience.

**Ellis, K. N.**: Tracking tornadoes. Writing About Science and Medicine Class, School of Journalism & Electronic Media, The University of Tennessee, Knoxville, Tennessee. 5 April 2016.

**2015** **Ellis, K. N.**: If a tornado touches down and no one is around to see it... MicNite, The University of Tennessee, Knoxville, Tennessee. 14 October 2015. Available online: <https://www.youtube.com/watch?v=LMh0NYOWv6U>

**Brown, V. M.** and **K. N. Ellis**: Tennessee tornado climate: A preliminary comparison of three major cities. Smoky Mountain Chapter of the American Meteorological Society, Knoxville, Tennessee. 18 May 2015.

**2014** **Ellis, K. N.**: Investigating extreme hurricanes: Sasquatch of the tropics. Colloquium, Department of Geography, Virginia Tech, Blacksburg, Virginia. 17 October 2014.

**Ellis, K. N.**: Investigating extreme hurricanes: Sasquatch of the tropics. Colloquium, Department of Geography, University of North Carolina - Greensboro, Greensboro, North Carolina. 19 September 2014.

**Ellis, K. N.**: Spatial analysis of North Atlantic tropical cyclones. Colloquium, Department of Earth and Planetary Sciences, The University of Tennessee, Knoxville, Tennessee. 27 March 2014.

**Scheitlin, K. N.**: Spatial patterns in atmospheric hazards: tropical cyclones and tornado reports. Smoky Mountain Chapter of the American Meteorological Society, Knoxville, Tennessee. 24 March 2014.

**Scheitlin, K. N.**: Analyzing and responding to climatic variability: a story of scale.

Senior Design Class, Department of EES, The University of Tennessee, Knoxville, Tennessee. 14 March 2014.

**2012** **Scheitlin, K. N.**: The past, present and future of Atlantic-basin tropical cyclones. Colloquium, Department of Physics, Hampden-Sydney College, Hampden Sydney, Virginia.

**Scheitlin, K. N.**: Spatial patterns in tropical cyclone intensities. Colloquium, Department of Biological and Environmental Sciences, Longwood University, Farmville, Virginia.

**2010** **Scheitlin, K.N.**: A spatial climatology of hurricanes. Atmospheric Sciences Colloquium, University of Virginia, Charlottesville, Virginia.

## STUDENTS MENTORING

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### *Ph.D. Student Dissertations Directed*

Cooper Corey Ph.D. in Geography, The University of Tennessee, expected Spring 2027.  
Dissertation topic: Climatological hazards

Haya Albaker Ph.D. in Geography, The University of Tennessee, expected Spring 2025.  
Dissertation Topic: Urban hazard resiliency

Nicholas Grondin, Ph.D. in Geography, The University of Tennessee, Spring 2023.  
Dissertation: Climatological Analysis of Tropical Cyclone Occurrence Dates and Landfall Characteristics in the North Atlantic and Eastern North Pacific  
Immediate position: Assistant Professor at University of Tampa

Daniel Burow, Ph.D. in Geography, The University of Tennessee, 2021.  
Dissertation: Hazardous weather climatology and human response in the southeastern United States.  
Immediate position: Assistant Professor at Embry-Riddle Aeronautical University

Alisa Hass, Ph.D. in Geography, The University of Tennessee, 2019.  
Dissertation: A Mixed-Methods Approach to Assessing Factors Contributing to Heat Exposure at the Neighborhood- and Individual-Levels in Knoxville, Tennessee.  
Immediate position: Assistant Professor at Middle Tennessee State University.

### *M.S. Student Theses Directed*

Seth Thompson, M.S. in Geography, The University of Tennessee, expected Spring 2025.  
Thesis topic: TBD

Cara Hannel, M.S. in Geography, The University of Tennessee, expected Spring 2024.  
Thesis topic: Diurnal cycles of convective hazards in Tennessee

Morgan Steckler, M.S. in Geography, The University of Tennessee, Spring 2023.  
Thesis: Unsupervised machine learning of strong, tornado-producing storms in the east-southeastern United States

Alyssa Cannistraci, M.S. in Geography, The University of Tennessee, 2020.  
Immediate position: Researcher for National Center of Atmospheric Research  
Thesis: Tweet diffusion over space and time: A comparison of a winter-weather and tornado-outbreak case study

Kelly Gassert, M.S. in Geography, The University of Tennessee, 2017.  
Thesis: Convective mode of Tennessee tornado events and effect on National Weather Service warning processes.  
Immediate position: Atmospheric Scientist/Wind Climate Analyst, CPP Wind

Sarah Bleakney, M.S. in Geography, The University of Tennessee, 2016.  
Thesis: Trends in the Location of the Lifetime Maximum Intensity of Tropical Cyclones in the North Atlantic and West Pacific Oceans.  
Immediate position: Post Master's researcher, Oak Ridge National Laboratory

Shannon Woolfolk, M.S. in Geography, The University of Tennessee, 2016.  
Thesis: Air mass frequency, trends, and stagnation in the Southern Appalachian region of the U.S.A., 1965–2014.  
Current position: Cartographic Technician at Yellowstone National Park  
Immediate position: Secretary to the Superintendent, Fort Sumter National Monument

Vincent Brown, M.S. in Geography, The University of Tennessee, 2016.  
Thesis: Tennessee tornado frequency, vulnerability, and relation to large-scale climate variability  
Current position (updated 6/2021): Research professor at Louisiana State University.  
Immediate position: Ph.D. student at Louisiana State University

*Ph.D. Student Committees Served*

Sangwon Lee, Ph.D. in Social Work, The University of Tennessee, expected Spring 2026.  
Dissertation: TBD

Jamie Alumbaugh, Ph.D. in Geography, The University of Tennessee, expected Spring 2024.  
Dissertation: TBD

Matthew Horan, Ph.D. in Data Science and Engineering, The University of Tennessee, Summer 2023.  
Dissertation: Sources and Forcings of Boreal Winter Precipitation Variability over the Arabian Peninsula, Central Southwest Asia, and Southeastern Africa



- Yasin Rabby, Ph.D. in Geography, The University of Tennessee, 2021.  
Dissertation: Landslide Mapping and Susceptibility Assessment of Chittagong Hilly Areas, Bangladesh
- Evah Wangui, Ph.D. in Comparative and Experimental Medicine, The University of Tennessee, 2019.  
Dissertation: Spatial and Temporal Epidemiology and Disease Burden of Myocardial Infarction in Florida
- Maegen Rochner, Ph.D. in Geography, The University of Tennessee, 2019.  
Dissertation: Climate Change and Forest Dynamics in a High-Elevation Whitebark Pine Ecosystem, Wyoming, U.S.A.
- Kathleen Ernst, Ph.D. in Energy Science and Engineering, The University of Tennessee, 2018.  
Dissertation: Opportunities and constraints related to the production and use of knowledge systems for adaptation
- M.S. Student Committees Served*
- Jack Spining, M.S. in Geography, The University of Tennessee, expected 2023.  
Thesis topic: TBD
- MonTré Hudson, M.S. in Geography, The University of Tennessee, expected 2023.  
Thesis topic: Wildfires
- Matthew Montgomery, M.S. in Civil and Environmental Engineering, The University of Tennessee, 2022.  
Thesis: Joint Failure Probability of Dams Based on Probabilistic Flood Hazard Analysis
- Jared Crain, M.S. in Geography, The University of Tennessee, 2022.  
Thesis: A New Classification of Microscopic Charcoal Morphology as an Indicator of Fuel Type Applied to Charcoal Records from Two Lakes in Southern Pacific Costa Rica
- Dakotah Macguire, M.S. in Geography, The University of Tennessee, 2021.  
Thesis topic: Statistical and Spatial Analysis of Hurricane-Induced Power Outage and Restoration
- Katie Lance, M.S. in Civil and Environmental Engineering, The University of Tennessee, 2021.  
Thesis: Potential for rapid inundation mapping to save lives in the event of a dam breach
- Faisal Islam, M.S. in Geography, The University of Tennessee, 2021.  
Thesis: Effects of Climate Change and Male-out Migration on Gendered Agricultural Livelihood Decision-making Processes in Bangladesh
- Elizabeth MacLennan, M.S. in Geography, The University of Tennessee, 2019.

Thesis: Evidence of Climatic Variability in Hispaniola through Precipitation Records during the Terminal Classic Drought

David Howe, M.S. in Civil and Environmental Engineering, The University of Tennessee, 2016.  
Thesis: Knoxville microclimates: Spatial and temporal variability in ambient air temperature across four urban neighborhoods.

Allison Ingram, M.S. in Geography, The University of Tennessee, 2016.  
Thesis: Testing the temporal stability of the climate response of tree species at Norris Dam State Park, Tennessee, U.S.A.

James Jones, M.S. in Civil and Environmental Engineering, The University of Tennessee, 2014.  
Thesis: Spatial and temporal variability in precipitation and streamflow in the Upper Tennessee Valley.

Savannah Collins, M.S. in Geography, The University of Tennessee, 2014.  
Thesis: Detecting hurricane signals in the tree-ring growth responses of the Longleaf Pine in Valdosta, Georgia.

#### *Undergraduate Student Theses Directed*

Emily Litrakis, B.A. Geography from The University of Tennessee, expected Spring 2024.  
Honors Thesis beginning Fall 2023!

Megan Porter, B.A. Geography from The University of Tennessee, Spring 2022.  
Honors Thesis: When they knew: How information sources used by Nashville's Black and Brown Residents affected when they became aware of a tornado

Anna Franklin, B.A. in Communications from The University of Tennessee, Spring 2021.  
Honors Thesis: Studying Levels and Perceptions of Severe Weather Preparedness in University of Tennessee, Knoxville, Students. Co-advisor with Dr. Matt Kerr.

Morgan Steckler, B.A. in Geography from The University of Tennessee, 2020.  
Honors Thesis: Convective mode influence on tornado warning success metrics in Tennessee.

Jonathan Unger, B.A. in Geography, The University of Tennessee, 2019.  
Honors Thesis: Analysis of Hurricane Track Forecast Accuracy During the 2018 Season.

Chelsea Taylor, B.S. in Biological Sciences, Longwood University, 2012.  
Senior Honors Research Thesis: The influence of tropical cyclones on Chesapeake Bay Dead Zones.

#### *Other Mentored Undergraduate Research Students*

Emma Collard, B.S. in Geographic Information Systems from the University of Tennessee,

expected Spring 2027  
Ella Hunter, B.A. in Geography and B.S in Mathematics from the University of Tennessee,  
expected Spring 2024  
Annie Liu, B.A. Geography from The University of Tennessee, expected Spring 2023  
Zach Medley, B.S. in Chemical Engineering from the University of Tennessee, Spring  
2022  
Emma Sutliff, B.A. Geography from The University of Tennessee, Spring 2022  
Justin Bowles, B.A. in Geography from The University of Tennessee, Spring 2019  
Emily Thibert, B.A. in Geography from The University of Tennessee, Spring 2019  
Catherine Costigan, B.A. in Geography from The University of Tennessee, Spring 2019  
MonTré Hudson, B.A. in Geography from The University of Tennessee, Spring 2019  
Rebecca Russ, B.A. in Geography from The University of Tennessee, Fall 2018  
Emma Reed, B.A. in Geography from The University of Tennessee, 2018  
Sarah Green, B.A. in Geography from The University of Tennessee, 2018  
Erica Massengill, B.A. in Geography from The University of Tennessee, 2017  
Hallie Dilworth, B.A. in Geography from The University of Tennessee, 2017  
Chesnea Skeen, B.A. in Geography from The University of Tennessee, 2017  
Danielle Dami, B.A. in Geography from The University of Tennessee, 2017  
Alex Snyder, B.A. in Geography from The University of Tennessee, 2016  
Damani Driver, B.S. in Geology from The University of Tennessee, 2015  
Sarah Bleakney, B.A. in Geography from The University of Tennessee, 2014  
Carrie Dunham, B.A. in Liberal Studies from Longwood University, 2013  
Kaitlin Major, B.A. in Liberal Studies from Longwood University, 2013

## TEACHING EXPERIENCE

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### *Program Development:*

Broadcast Meteorology minor. Developer. University of Tennessee, 2022.  
Climate Change minor. Developer. University of Tennessee, 2017.  
Integrated Environmental Sciences major. Co-developer. Longwood University, 2013.

### *Courses taught at The University of Tennessee:*

First Year Studies 129: Freshman Seminar. Fall 2014 Topic: Chasing storms. Fall 2018/2020  
Topic: Tennessee tornadoes.  
Geography 131: Weather, Climate, and Climate Change (lab course)  
Geography 331: Natural Hazards  
Geography 334: Meteorology (lab course)  
Geography 434: Climatology  
Geography 453: Extreme Weather Climatology  
Geography 494: Undergraduate Research Experience (topic varies by student)  
Geography 504: Introduction to Geographic Research  
Geography 534: Topics in Climatology. Fall 2015 topic: Boundary layer climatology. Fall 2018  
topic: North Atlantic hurricanes.

Geography 634: Seminar in Climatology. Fall 2014 topic: Climate change and catastrophe. Spring 2019 topic: Extreme weather & climate change. Fall 2023 topic: Statistical climatology of atmospheric hazards.

*Courses taught at Longwood University:*

Earth Science 390: Directed study (topic varies by student)  
General Education 162: Introduction to Environmental Science (lab course)  
Geography 261: Meteorology  
Geography 355: Climatology  
Geography 390: Dynamic Planet (lab course)  
Geography 495: Special Topics in Geography. Summer 2012 Topic: Exploring Severe Weather in the Great Plains (field course)  
Longwood Seminar 100: Longwood Seminar  
Science Education 401/501: Summer of learning: Science teachers investigating the Chesapeake Environment (field course)

*Courses taught at Florida State University:*

Geography 3200: Physical Geography  
Geography 4930/5158: Advanced Geographic Information Science (lab instructor)

*Courses taught at Mississippi State University:*

Geography 4303: Principles of Geographic Information Science (lab instructor)

## HONORS, AWARDS, AND RECOGNITIONS

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- 2021** Higher Education Distinguished Teaching Award, National Council for Geographic Education.
- 2019** Graduate Student Advocate Award, Department of Geography, The University of Tennessee. Selected by the students.
- 2018** Excellence in Teaching Award (Junior Career), College of Arts and Sciences, The University of Tennessee.
- 2017** Chancellor's Citation for Success in Multidisciplinary Research, The University of Tennessee.  
Outstanding Alumni, Department of Geosciences, Mississippi State University.
- 2016** Sentinels of Science Award, *Publons*. For outstanding participation in peer review.

- 2014** Outstanding Faculty Teaching Award, Department of Geography, The University of Tennessee. Selected by the students.
- 2012** Honorary Spirit Leader, Longwood University. Selected by the students.
- 2010** Publication Award, Department of Geography, Florida State University, \$1000.
- 2009** Travel Award, Aegean Conferences. For participation at the Second International Summit on Hurricanes and Climate Change; Crete, Greece, \$2,000.
- 2008** Travel Award, Congress of Graduate Studies, Florida State University. For participation in the Annual Meeting of the American Association of Geographers; Las Vegas, Nevada, \$300.
- 2007** Travel Award, Aegean Conferences. For participation at the First International Summit on Hurricanes and Climate Change; Crete, Greece, \$2,000.
- 2005** Academic Achievement Award, Department of Geography and Geosciences, Salisbury University.
- Outstanding Service Award, Department of Geography and Geosciences, Salisbury University.

*Honor Societies:*

- 2006 Induction**      Sigma Gamma Epsilon (Mississippi State University)  
                               Gamma Beta Phi (Mississippi State University)  
                               Phi Kappa Phi (Mississippi State University)
- 2005 Induction**      Gamma Theta Upsilon (Salisbury University)  
                               Pi Gamma Mu (Salisbury University)

**SERVICE**

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*Service to the University of Tennessee*

*Department-level service:*

- |                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Fall 2023–present | Mentor, Assistant Professor Karen King                       |
| 2023–2024         | Member, Water Resources Search Committee                     |
| Fall 2023         | Colloquium Coordinator                                       |
| Spring 2023       | Peer Evaluator of Teaching for Dr. Hannah Herrero            |
| Spring 2021       | Organizer, Strategic Hire interview for Dr. Dimitris Herrera |
| Fall 2021         | Contributor, Strategic Hire proposal                         |
|                   | Peer Evaluator of Teaching for Dr. LaToya Eaves              |

Summer 2021	Chair, Physical Geography Search Committee
Spring 2021	Member, Physical Geography Lecturer Search Committee
	Peer Evaluator of Teaching for Dr. Tracey Norrell
	Contributor, Proposal for Physical Geography hire
Fall 2020	Peer Evaluator of Teaching for Dr. Melissa Hinten
	Leader, Strategic Hire proposal
2020–2023	Member, Executive Committee
2020–present	Chair, Southern Association of Colleges and Schools (SACS) committee
Spring 2020	Contributor, Proposal for Physical Geography hire
2019–present	Mentor, Assistant Professor Dr. Hannah Herrero
Fall 2019	Peer Evaluator of Teaching for Dr. Nicholas Nagle
Spring 2019	Member, Business Manager Search Committee
Fall 2018	Developer, Climate Change Minor
2018–2019	Member, Remote Sensing Search Committee
2017–present	Director (2020–present), Associate Director (2017–2020), Graduate Program Committee
Fall 2016	Member, Department Head Search Committee
2015–2019	Coordinator, Geography 131: Weather, Climate, and Climate Change
2015–2017	Member, Graduate Examinations Committee
2015–2016	Member, Graduate Admissions Committee
2014–2017	Academic Advisor, Geography undergraduate majors (approximately 25–35 advisees at a given time)
2016–2017	Associate Director, Undergraduate Program Committee
2014–2016	Member, Undergraduate Program Committee
2013–present	Advisor, Gamma Theta Upsilon, Iota Theta Chapter
2013–2016, 2013–2020	Manager, Department Facebook, Twitter, Instagram and LinkedIn accounts (Yingjie Hu led these accounts in 2016–17)
2013–2020	Web Page and Social Media committee co-chair
2014–2016	Faculty Advisor, UTK GeoSym
Spring 2016	Colloquium coordinator
Spring 2015	Member, Search Committee

*College-level service:*

2021–present	Member, College of Arts & Sciences Lecturer Promotion Committee
Spring 2023	Reviewer, Early Career Research Award in the Natural and Quantitative Social Sciences
Spring 2020	Reappointment Committee for Head of Ecology and Evolutionary Biology
2018–2019	Advisor, College Social Media Ambassadors
2017–2020	Member, College Teaching Council
2015–2016	Member, College Social Media Committee
Spring 2014	Judge, Exhibit of Undergraduate Research and Creative Activity (EURECA)

*University-level service:*

2023–present	Member, Graduate Teaching Support Network
2019–2021	Advisory Board Member, Center for the Integration of Research Teaching and Learning (CIRTL)
2018	Reviewer, Proposals for internal competition for Ralph E. Powe Junior Faculty Enhancement Award Program
2017–2020	Alternate, Faculty Senate, Social Science Caucus
2014–2016	Member, Committee for Campus Environment
2014–2016	Member, Sustainability Curriculum Committee
2014–2016	Member, Sustainability Working Group
Spring 2015	Reviewer, Proposals for SEC Faculty Travel Grants

### ***Service to Longwood University***

#### *Department-level service:*

2011–2013	Member, Center for Excellence in Environmental Education developmental task force
2012–2013	Member, Physiology Search Committee
2012–2013	Founding Advisor, Environmental Club
2010–2013	Academic Advisor, Liberal Studies majors (approximately 45 advisees at a given time)
2010–2013	Member, Integrated Environmental Science major development committee

#### *College-level service:*

2010–2012	Member, Awards Committee (Chair 2011–2012)
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#### *University-level service:*

2012–2013	Advisor, AMOR student volunteer organization
2011–2013	Advisor, <i>INCITE Journal of Undergraduate Scholarship</i>
2011–2013	Member, Sustainability Committee
2010–2012	Advisor, Circle K International
2010–2012	Faculty Participant, Peer Mentor selection and training
2011	Evaluator, Assessment for Longwood Seminar course

### ***Service to other institutions***

2007–2010	Member, Geography and Environmental Sciences Student Association, Department of Geography, Florida State University
2009–2010	Graduate Student Liaison, Department of Geography, Florida State University
2008–2010	Co-organizer, Geography Awareness Week, Department of Geography, Florida State University

2008	Co-organizer, GIS Day, Department of Geography, Florida State University
2005–2007	Member, National Weather Association – Northeast Mississippi Student Chapter, Department of Geosciences, Mississippi State University
2006–2007	Vice President, Sigma Gamma Epsilon, Department of Geosciences, Mississippi State University
2004–2005	Teaching Assistant, Introduction to Physical Geography, Salisbury University
2003–2005	Tutor, Introduction to Physical Geography, Salisbury University
2002–2005	Member, Geographic Society, Department of Geography, Salisbury University

### ***Service to the discipline***

#### *Editorial position*

2020–present	Associate Editor, <i>Weather Climate and Society</i>
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#### *Positions in associations and committees*

2021–2024	Chair, Climate Specialty Group, American Association of Geographers
2021–2022	Vice Chair, Climate Specialty Group, American Association of Geographers
2020–2022	Honors Committee B, American Association of Geographers
2020–present	Member, Advisory Board, Tennessee State Climate Office
2018–2020	Tennessee State Representative, Southeastern Division of the American Association of Geographers
2016–2018	Member, Nominations Committee, Southeastern Division of the American Association of Geographers
2016–2020	Member, VORTEX-Southeast Scientific Steering Committee
2015	Member, Program Committee, Southeastern Division of the American Association of Geographers
2013–2015	Team Coordinator, Tennessee Geography Bowl Team, World Geography Bowl, Southeastern Division of the American Association of Geographers

#### *Planning of workshops and conferences*

2023–present	Member, Planning Committee for the Southern Appalachian Weather and Climate Workshop. Radford, Virginia.
2009	Co-organizer, 2 <sup>nd</sup> International Summit on Hurricanes and Climate Change. Corfu, Greece.
2006–2007	Co-organizer, Southeast Severe Storms Symposium, Department of Geosciences, Mississippi State University



*Other panel, workshop, and conference service*

- 2023** Panelist, “Let’s Get Physical: Careers in Physical Geography.” Virtual panel by American Association of Geographers  
Judge, poster session, Second Annual Research Conference for the Institute for a Secure and Sustainable Environment, The University of Tennessee  
Panel co-organizer, Women in Geography: Academic Career. Annual Meeting of the American Association of Geographers  
Session Chair, Physical Geography. Geography Symposium, The University of Tennessee
- 2022** Judge, Student Paper Competition, Climate Specialty Group of the American Association of Geographers
- 2021** Panel organizer, Ask a Graduate Director. AAG Climate Specialty Group workshop series.  
Moderator (two sessions), 3rd Annual Innovative Teaching and Learning Conference
- 2018** Panel co-organizer, Advancing Women in Geography I: Early-career Faculty. Annual Meeting of the Southeastern Division of the American Association of Geographers  
Judge, Women in STEM symposium presentations, University of Tennessee
- 2016** Facilitator, Integrating Teaching and Research. AAG Early Career GFDA Workshop, Knoxville, Tennessee  
Session Chair, Urban Session. Geography Symposium, The University of Tennessee
- 2015** Session Chair, Physical Geography: Weather and Climate. Annual Meeting of Southeastern Division of the American Association of Geographers  
Discussant, Responses to Climate Change. Disaster Displacement and Human Rights Conference, The University of Tennessee  
Judge, Student Paper Competition, Climate Specialty Group of the American Association of Geographers
- 2014** Session Chair, Climate 1. Annual Meeting of Southeastern Division of the American Association of Geographers
- 2013** Session Chair, Tornado Risk, Vulnerability, and Preparedness, Part II: Physical Factors. Annual Meeting of the American Association of Geographers

*Manuscript and Chapter Reviews (89)*

*Atmosphere* (1) – 2020

*Bulletin of the American Meteorological Society* (3) – 2020, 2021, 2022

*Cities and the Environment* (1) – 2022

*Climate* (2) – 2016 (2)

*Climate Dynamics* (3) – 2012, 2021 (2)

*Climatic Change* (1) – 2016

*Disasters Journal* (2) – 2019, 2020

*Earth Interactions* (1) – 2015

*Geojournal* (2) – 2017, 2018

*Hurricanes and Climate Change, Vol. 3* (1) – 2016  
*Hurricane Risk in a Changing Climate* (2) – 2021 (2)  
*International Journal of Biometeorology* (13) – 2011, 2012, 2014 (2), 2016 (2), 2017, 2019 (2), 2021, 2022, 2023 (2)  
*International Journal of Climatology* (11) – 2018 (2), 2019 (5), 2020 (2), 2021(2)  
*International Journal of Environmental Research and Public Health* (2) – 2016 (2)  
*Irrigation and Drainage* (2) – 2019 (2)  
*Journal of Applied Meteorology and Climatology* (2) – 2015, 2018  
*Journal of Climate* (1) – 2015  
*Journal of Environmental Management* (1) – 2019  
*Journal of Extreme Events* (1) – 2023  
*Journal of Geophysical Research–Atmospheres* (1) – 2011  
*Meteorological Applications* (2) – 2016 (2)  
*Natural Hazards* (4) – 2013, 2014 (2), 2017  
*Physical Geography* (2) – 2013, 2014  
*Pursuit - The Journal of Undergraduate Research at the University of Tennessee* (1) – 2020  
*Reinvention: An International Journal of Undergraduate Research* (1) – 2021  
*Southeastern Geographer* (5) – 2018, 2019 (2), 2021, 2023  
*Theoretical and Applied Climatology* (3) – 2017, 2018, 2022  
*Urban Climate* (2) – 2016 (2)  
*Water* (1) – 2015  
*Weather, Climate, and Society* (17) – 2018 (3), 2019, 2020 (3), 2021 (3), 2022 (4), 2023 (3)

*Proposal Reviews (11) and Panels (1)*

National Center for Atmospheric Research (1) – 2021  
 National Geographic (2) – 2013, 2016  
 National Oceanic and Atmospheric Administration (3) – 2020 (3)  
 National Science Foundation (4, 1 panel) – 2017 (2), 2018, 2020 (panel), 2022  
 United Kingdom Research and Innovation (1) – 2023

*Tenure and Promotion Reviews (2)*

2020, 2022

***Service to the community***

2023–present Member, Weather Ready Tennessee: Serving the Underserved committee organized by the Tennessee National Weather Service Weather Forecasting Offices  
 2023 Volunteer, Girl Scouts Troop 22231, “Taking Care of the Earth: Climate Change.” 6 April 2023. Demonstrated the greenhouse effect and taught about climate change to Daisy Girl Scouts, Knoxville, Tennessee.  
 2018 Keynote speaker and participant at Girls Day in STEM-H at UVa-Wise. 24 September 2018. Over 600 sixth-grade girls participated.

- 2018 Presenter and discussion leader, workshops at National Weather Service offices in Nashville, Memphis, and Morristown.
- 2016–present Development of tornadosafety.utk.edu, informational website on tornado risk and vulnerability for Tennessee residents.
- 2016, 2017 Meteorology Test-Writer and Event Volunteer, Science Olympiad, Pellissippi State Community College. 20 February 2016, 25 February 2017.
- 2015 Guest speaker, Clayton-Bradley STEM Academy, Maryville, Tennessee. “Clashing Air Masses and Chasing Storms,” 13 March 2015.  
Presenter, Junior Science and Humanities Symposium, Knoxville, Tennessee. “Come with us, the Volunteer Storm Chasers.” 12 March 2015.
- 2010–2013 Site Captain, International Coastal Cleanup
- 2011 Weather and Climate Faculty, NASA Summer of Innovation for Girl Scouts of the Commonwealth of Virginia.

## PROFESSIONAL DEVELOPMENT, TRAINING, AND WORKSHOPS

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- 2023** Integrated Warning Team workshop hosted by NWS Morristown. Knoxville, Tennessee 26 April 2023.

NWS Partners and Users Heat Webinar. Online. 20 April 2023.

Southeast Appalachian Weather and Climate Workshop. Asheville, North Carolina. 14–15 April 2023.

Claiming and Maintaining Dignity in Teaching. The University of Tennessee. 9 March 2023.

Giving and Receiving Feedback Well. Office of Ombuds Services. The University of Tennessee. 22 February 2023.

- 2022** Diversity Engagement Series: Workshop 4. The Art of Inclusive Communication. The University of Tennessee. 24 March 2022.

Diversity Engagement Series: Workshop 1. Fostering a Sense of Belonging in the Workplace through Inclusive Leadership Practices. The University of Tennessee. 18 March 2022.

Holistic Graduate Admissions Seminar. 3-month seminar series to improve admissions evaluations. The University of Tennessee. January–March 2022.

- 2021** Post-Tenure Pathfinders. National Center for Faculty Development and Diversity. The University of Tennessee. 7 December 2021.

Empathy is a Choice. Diversity Matters Lunch and Learn Series. The University of Tennessee. 6 July 2021.

- Safe Zone Training, Tier 2. The University of Tennessee. 28 June 2021.
- Safe Zone Training, Tier 1. The University of Tennessee. 22 June 2021.
- Tennessee Climate Data Summit. Two-day virtual workshop on climate data and climate endeavors across the state. 25–26 May 2021.
- NWS-Academia Partners Roundtable. Two-Day virtual workshop on Research and Education for a Weather-Ready Nation. 24–25 May 2021.
- Engaging the Media virtual seminar, American Association for the Advancement. 20 May 2021.
- 2020** Responding to Online Student Writing, three-part workshop. The University of Tennessee, Summer 2020.
- Virtual Vol Bootcamp. Intensive summer workshop series. The University of Tennessee, Summer 2020.
- 2019** Earth Science Women’s Network: Women’s Leadership Workshop. Boulder, Colorado, 5–8 November 2019. Competitive application process.
- VORTEX-SE Workshop, Huntsville, Alabama, 12–13 September 2019.
- 2018** Teaching and Learning Innovation Summer Institute, Faculty Fellow, The University of Tennessee, Summer 2018. Competitive application process.
- 2017** VORTEX-SE Workshop, Huntsville, Alabama, 16 November 2017.
- Train the Trainer Opportunity: Climate Resilience in East Tennessee. Knoxville Office of Sustainability, 6 February 2017.
- 2015** Mentoring Matrix for Female Faculty Program participant. 2015–present.
- VORTEX-SE Workshop, Huntsville, Alabama, 9–11 November 2015.
- STRIDE Workshop on recruiting a diverse faculty, The University of Tennessee, 7 October 2015.
- Curricular and Institutional Models Promoting Sustainability, IJAMS Nature Center, Knoxville, Tennessee, 6 May 2015.
- Speed Dating with an NSF Program Officer, AAG Annual Meet, Chicago, Illinois, 22 April 2015.

Teaching in a Technology Enhanced Classroom, The University of Tennessee, 6 January 2015.

**2014** Summer Grant Writing Institute, The University of Tennessee, May–June 2014. Competitive application process.

Science Early Investigator Awards workshop, Office of Research and Engagement, The University of Tennessee, 16 April 2014.

NSF CAREER workshop, Office of Research and Engagement, The University of Tennessee, 2 April 2014.

**2013** Introduction to Effective Grant Writing, Office of Research and Engagement, The University of Tennessee, 13 November 2013.

Finding Funding workshop, Office of Research and Engagement, The University of Tennessee, 14 October 2013.

Research and Academic Fundamentals, College of Arts and Sciences, The University of Tennessee. 17 September 2013.

New Faculty Teaching Institute, Tennessee Teaching and Learning Center, The University of Tennessee. 7–9 August 2013.

**2011** Climate Change and the Chesapeake Bay: Communicating Climate Science, NOAA office in Annapolis, Maryland. 14 April 2011.

**2010** Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution, Council on Undergraduate Research. Calvin College, Grand Rapids, Michigan. 19–21 November 2010.

**2009** Undergraduate Advising Workshop, Florida State University.

## **PROFESSIONAL AFFILIATIONS**

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American Meteorological Society

American Association of Geographers (including Climate Specialty Group and Hazards Specialty Group)

International Society of Biometeorology

Southeastern Division of the American Association of Geographers

Smoky Mountains Chapter of the American Meteorological Society

## **MEDIA ENGAGEMENT AND RECOGNITION**

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- 2023** “Why August tornadoes may become more frequent,” *Knoxville News Sentinel*. Interviewed about meteorological and climatological details of the 7 August tornado. <https://www.knoxnews.com/story/news/local/2023/10/12/knoxville-august-tornado-research-severe-weather-alerts/71069314007/> 12 October 2023.
- “EF2 Tornado hits west Knoxville” *WBIR*. Interviewed about tornado that touched down in west Knoxville, and how it relates to the local tornado climatology. 8 August 2023.
- “Tornadoes becoming more common in East Tennessee.” *WBIR*. Interviewed about changes in tornado climatology in the Southeast. <https://www.youtube.com/watch?v=KO2Gu1Ddsgk> 13 July 2023.
- 2022** “Knoxville heat study reveals some areas run almost 16 degrees hotter.” *WVLT*. 8 June 2022. <https://www.wvlt.tv/video/2022/06/08/heat-your-health-an-upcoming-study-needs-your-help-see-how-much-hotter-knoxville-can-get/>
- “Researchers map heat inequities in Knoxville, finding higher temperatures in lower-income areas.” *WBIR*. 15 June 2022. Our project was the basis of a news story, including an interview with PI First. <https://www.wbir.com/article/tech/science/ut-researchers-looking-into-heat-inequities-in-knoxville-and-in-the-us/51-60a5bfa4-96cb-45c5-8551-782fab850cd4>
- “Heat and your health, an upcoming study needs your help to see how much hotter Knoxville can get.” *WVLT*. 8 June 2022. Our project was the basis of a news story, including an interview with PI First and GRA, helping us recruit volunteers for heat mapping. <https://www.wvlt.tv/video/2022/06/08/heat-your-health-an-upcoming-study-needs-your-help-see-how-much-hotter-knoxville-can-get/>
- “This is not natural: Sudden weather shifts on campus sped by climatic change.” *Daily Beacon*, 9 March 2022. Interviewed about how climate change may affect spring weather in Knoxville. [https://www.utdailybeacon.com/campus\\_news/science\\_and\\_medicine/this-is-not-natural-sudden-weather-shifts-on-campus-spiced-by-climatic-change/article\\_0f178d30-9fd4-11ec-9eb5-1fac987c1f16.html](https://www.utdailybeacon.com/campus_news/science_and_medicine/this-is-not-natural-sudden-weather-shifts-on-campus-spiced-by-climatic-change/article_0f178d30-9fd4-11ec-9eb5-1fac987c1f16.html)
- “Dialogue: Climate across Tennessee.” *91.9 WUOT*, 2 March 2022. Served as the East Tennessee weather expert on a three-person panel for a one-hour discussion about Tennessee climate on our local NPR affiliate. <https://www.wuot.org/show/dialogue-on-wuot/2022-03-02/dialogue-climate-change-and-extreme-weather-in-tennessee>
- Interviewed by The Washington Post about climate change in Tennessee. 12 February 2022.

Interviewed by Stonecom Broadcasting in Cookeville, Tennessee to discuss tornado climatology and vulnerability in Tennessee for a 30-minute radio special. 11 January 2022.

- 2021** “Scientists say more tornadoes are coming to the South — and they're likely to be more devastating.” *WBIR*, 17 December 2021. Interviewed about tornadoes and climate change for on-air segment on 5:00 news and online report.  
<https://www.wbir.com/video/weather/scientists-say-more-tornadoes-are-coming-to-the-south-and-theyre-likely-to-be-more-devastating/51-280b3371-5e96-4614-b926-0deedda4d906>

“Why Southern U.S. is Prone to December Tornadoes.” *Public News Service*, 15 December 2021. Interviewed about cool-season and long-track tornadoes.  
<https://www.publicnewsservice.org/2021-12-15/environment/why-southern-u-s-is-prone-to-december-tornadoes/a76979-1>

Interviewed live during by *FOX Weather* about devastating nocturnal tornadoes across the mid South. 11 December 2021.

“Climate change and local weather.” *News Talk 98.7 WOKI*, 18 September 2021. Interviewed for an hour on *More Living with Jim Brogan* about weather, climate, and climate change.

“Tennessee gets more tornadoes at night than any other state. Here’s why.” *Tennessean*, 9 July 2021. Interviewed by Rachel Wegner to help explain why tornadoes happen at night in the Southeast. <https://www.tennessean.com/story/weather/2021/07/09/tennessee-weather-tornado-night-leads-united-states/7356841002/>

“Tornadoes in Tennessee: Here's what to know, understand and remember.” *Tennessean*, 17 June 2021. Interviewed about tornadoes in Tennessee.  
<https://www.tennessean.com/story/weather/2021/06/17/tornadoes-tennessee-heres-what-know-understand-and-remember/5186539001/>

“Tornado warning: Twisters are hitting more frequently and dealing more deaths in the South.” *USA Today*, 16 June 2021. Mentioned my research on nocturnal tornadoes.  
<https://www.usatoday.com/in-depth/news/nation/2021/06/16/tornado-season-changing-spreading-across-south-deaths-and-destruction/5134403001/>

“Tornado safety: What to do when a watch or warning is issued depends on where you are.” *USA Today*, 16 June 2021. Interviewed about tornado warning response.  
<https://www.usatoday.com/in-depth/weather/2021/06/16/tornado-safety-what-do-watch-warning-depends-where/5171803001/>

Featured researcher in May 2021 issue of the *Bulletin of the American Meteorological Society*.

“10 YEARS LATER: SE new tornado alley?” *Cleveland Daily Banner*, 30 April 2021. Interviewed about climate change and the increase in Southeast tornadoes.  
<https://www.clevelandbanner.com/stories/10-years-later-se-new-tornado-alley,123150?>

“Yes, Skies Sometimes Really Turn Green Before Tornadoes.” *Discover Magazine*, 14 April 2021. Interviewed about “green skies” and other weather misconceptions.  
<https://www.discovermagazine.com/the-sciences/yes-skies-sometimes-really-turn-green-before-tornadoes>

“Dialogue: How climate change impacts East Tennessee.” *91.9 WUOT*, 7 April 2021. Served as the extreme weather expert on a three-person panel for a one-hour discussion about local climate change impacts on our local NPR affiliate.  
<https://www.wuot.org/post/dialogue-how-climate-change-impacts-east-tennessee>

“Southeasterners Perceive Tornado Risk Dangerously Different Than They Should, Especially at Night.” *The Front Page*, American Meteorological Society, 17 March 2021. Research was highlighted as an important contribution to understanding tornado perceptions in the Southeast.  
<http://blog.ametsoc.org/bams-paper/southeasterners-perceive-tornado-risk-dangerously-different-than-they-should-especially-at-night/>

“Wild weather: 4 essential reads about tornadoes and thunderstorms.” *The Conversation*, 17 March 2021. Invited to contribute information about our Conversation article.  
<https://theconversation.com/wild-weather-4-essential-reads-about-tornadoes-and-thunderstorms-157275>

**2020** When night terrors are real: Tennessee leads the nation for twisters in the dark. *Chattanooga Times Free Press*, 19 April 2020. I was interviewed about the prevalence of nocturnal tornadoes and their associated dangers.  
<https://www.timesfreepress.com/news/local/story/2020/apr/19/when-night-terrors-are-real-tennessee-leads-n/521018/>

“Inside the storm: From rural homes to the heart of downtown Nashville, a mile-by-mile account of how the Tennessee tornadoes swept away homes and lives.” *Tennessean*, 4 April 2020. I was interviewed about the 3 March tornadoes.  
<https://www.tennessean.com/in-depth/news/local/2020/04/03/tennessee-tornadoes-weather-science/5025110002/>

“Deadly tornadoes reveal new disaster patterns in the Southeast.” *Popular Science*, 12 March 2020. Interviewed about how the Tennessee tornadoes relate to the overall changes we may be seeing in the tornado climatology.  
<https://www.popsci.com/story/environment/tennessee-tornados-climate-safety/>

“Experts say East Tennesseans aren’t as prepared for tornadoes as they should be.” *WBIR*, 10 pm news, 10 March 2020. Interviewed about the climatology of tornadoes in east Tennessee and how residents should prepare.



<https://www.wbir.com/article/weather/experts-say-east-tennesseans-arent-as-prepared-for-tornadoes-as-they-should-be/51-1764a1bb-2efe-4c56-805c-c0b8fc388b47>

“Tennessee’s nighttime tornadoes pose unique problems for forecasters and the public.” *91.9 WUOT*, 10 March 2019. I was interviewed to discuss why people do not get tornado warnings at night when they are issued. <https://www.wuot.org/post/tennessees-nighttime-tornadoes-pose-unique-problems-forecasters-and-public>

“Nocturnal tornado expert explains why they happen in Tennessee.” *WBIR*, 4 pm news, 5 March 2020. Interviewed about why tornadoes happen at night in Tennessee and why they are so deadly. <https://www.youtube.com/watch?v=2nS5iZ7aAVE>

**2019** Weather and climate expert for *Scariest Stuff on Earth* television series on the *Weather Channel*. Interviewed in December 2019 for the following stories: Angel in the Sky (307), Foam Monster (302), Carquake (256), Crop Circler (225), Fire Devil (115), Ghost Ship (178), Highland Horror (120), Snake in the Sky (295), Triangle Omen (261), Vanishing Sea (142), Cloud Critters.

“Come Hail or High Water: Journalism Students Delve into Extreme Weather.” *Tennessee Today*, 12 November 2019. Article on journalism class that interviewed me and two other extreme weather experts. <https://news.utk.edu/2019/11/12/come-hail-or-high-water-ut-journalism-students-delve-into-extreme-weather/>

Weather and climate expert for *What on Earth* television series on the *Science Channel*. Interviewed in October 2019 for the following stories: Doggerland Circle (606), Radioactive Wildfire (614), Wine Wars (620), Welsh Scars (650), Ring of Fire (658), Killer Mountain (714), Killer Bog (720), Oil Inferno (747).

“UT study shows many Tennesseans are misinformed about tornadoes.” *WBIR*. 7 October 2019. Interviewed about findings on tornado risk perception across Tennessee. <https://www.wbir.com/article/news/local/ut-study-shows-many-tennesseans-are-misinformed-about-tornadoes/51-3eca612f-3a1e-4b4e-89d1-528f0461835b>

“All about Dorian: The past, present and future of hurricanes.” *UT Daily Beacon*, 5 September 2019. Interviewed about Hurricane Dorian and how hurricanes like Dorian may be more common in the future. [http://www.utdailybeacon.com/city\\_news/all-about-dorian-the-past-present-and-future-of-hurricanes/article\\_24603ad4-d015-11e9-b27c-6feb180937d8.html](http://www.utdailybeacon.com/city_news/all-about-dorian-the-past-present-and-future-of-hurricanes/article_24603ad4-d015-11e9-b27c-6feb180937d8.html)

“New UT Knoxville study finds Tennesseans are misinformed about tornado risks.” *WRCB-TV*, 26 September 2019. Article summarizes recent research. <https://www.wrcbtv.com/story/41105680/new-ut-knoxville-study-finds-tennesseans-are-misinformed-about-tornado-risks>

“Study: Many Tennesseans are Misinformed About Tornado Protection.” *Scienmag Science Magazine*, 23 September 2019. Press release for recent research. <https://scienmag.com/study-many-tennesseans-are-misinformed-about-tornado-protection/>

“Hurricane Dorian projected to reach Category 4. What's that mean for East Tennessee?” *KnoxNews.com*, 30 August 2019. Provided insight about potential impacts of Dorian on Tennessee. <https://www.knoxnews.com/story/news/2019/08/30/hurricane-dorian-east-tennessee-weather-forecast/2163602001/>

“UT tornado expert talks deadly twisters and night storms with Meteorologist Ben Cathey.” *WVLT*, 28 May 2019. Interviewed in the studio about tornado climatology. Segments aired on Facebook live, 4:00 News, and more.

“A Climate for Connecting.” University of Tennessee, 4 March 2019. My collaborative work with Dr. Lisa Reyes Mason and Dr. Jon Hathaway was a feature story on [utk.edu](http://utk.edu).

**2018** “Hands-on experience: More than 600 girls explore STEM careers at UVa-Wise.” *Bristol Herald Courier*, 25 September 2018. Described my keynote speech at Girls Day in STEM-H, which hosted over 600 sixth-grade girls from southwest Virginia and surrounding areas. [https://www.heraldcourier.com/news/more-than-girls-explore-stem-careers-at-uva-wise/article\\_3f6457d1-115b-5b3f-a8bb-411d46d89cf4.html](https://www.heraldcourier.com/news/more-than-girls-explore-stem-careers-at-uva-wise/article_3f6457d1-115b-5b3f-a8bb-411d46d89cf4.html)

“Girls get hands-on with science, tech, more at UVa-Wise.” *The Coalfield Progress*, 25 September 2018. Described my keynote speech at Girls Day in STEM-H, which hosted over 600 sixth-grade girls from southwest Virginia and surrounding areas. [http://www.thecoalfieldprogress.com/coalfield\\_progress/girls-get-hands-on-with-science-tech-more-at-uva/article\\_4271387c-c03d-11e8-a6a5-fb0e7f9103fb.html](http://www.thecoalfieldprogress.com/coalfield_progress/girls-get-hands-on-with-science-tech-more-at-uva/article_4271387c-c03d-11e8-a6a5-fb0e7f9103fb.html)

5:00 news, *WBIR*, 13 September 2018. Interviewed live in the studio about Hurricane Florence: climatology and local impacts.

“East Tennessee may see rain tornadoes, flooding in wake of Florence, experts say.” *Knoxville News Sentinel*, 13 September 2018. Interviewed about Hurricane Florence impacts at the coast, potential local impacts, and how residents should prepare. <https://www.knoxnews.com/story/news/local/2018/09/13/hurricane-florence-east-tennessee-rain-tornadoes-flooding/1288436002/>

Atmospheric science expert for *What on Earth* television series on the *Science Channel*. Interviewed for the following stories: Lost Imperial City (509), Zombie Reindeer (512), Megalanche (513), Dead Island (521), Arctic Anomaly (522), Ice on Fire (539), Arctic Ice Monster (551), and Alien Holes (563).

“News 2 weather team attends National Weather Service’s media workshop.” *WKRN*, 6 February 2018. We discussed the findings of our VORTEX-Southeast research that we

presented during the media workshop. <http://wkrn.com/2018/02/06/news-2-weather-team-attends-national-weather-services-media-workshop/>

- 2017** “Weather balloon collecting data launches at UT.” *WBIR*, 27 September 2017. WBIR, along with WATE and WBLT, covered the launching of a weather balloon I organized for GEOG 131 and GEOG 334, and interviewed me on the purpose of weather balloons. <http://www.wbir.com/news/local/weather-balloon-collecting-data-launches-at-ut/479069981>

“Storm-smashed zoo no stranger to severe weather in Dixie Alley.” *Palm Beach Post*, 3 January 2017. I was interviewed by the paper to discuss tornado risk in the Southeast. <http://weatherplus.blog.mypalmbeachpost.com/2017/01/03/storm-smashed-zoo-no-stranger-to-severe-weather-in-dixie-alley/>

- 2016** “In the eye of the storm.” *Higher Ground*, publication from The University of Tennessee College of Arts and Sciences. My research was featured as a Faculty Highlight. <http://www.higherground.utk.edu/in-the-eye-of-the-storm/>

“Storm chasers probe the mysteries of southern tornadoes.” *91.9 WUOT*, 15 June 2016. I was interviewed to discuss the vulnerability associated with southeast tornadoes. <http://wuot.org/post/storm-chasers-probe-mysteries-southern-tornadoes>

“Studying weather and the public.” *The Method on 91.9 WUOT*, 30 March 2016. I was interviewed about my work with VORTEX-Southeast. <http://wuot.org/post/method-studying-weather-and-public>

“Knoxville microclimates.” *WIVK*, 11 March 2016. Co-PI Jon Hathaway was interviewed by Catherine Howell about our research on microclimates across Knoxville.

“UT study looks at weather from one Knox neighborhood to the next.” *Knoxville News Sentinel*, 11 March 2016. Featured our research on Knoxville microclimates as described by interview with Co-PI Lisa Reyes Mason. <http://www.knoxnews.com/news/local/ut-study-looks-at-weather-from-one-knox-neighborhood-to-the-next-2db82ebe-8d62-27b3-e053-0100007f458-371823311.html>

“UT study looks to make local weather even more local.” *WBIR*, 11 March 2016. I was interviewed along with my Co-PIs on microclimate research for this feature story on the 5:00 news. <http://www.wbir.com/news/local/ut-study-looks-to-make-local-weather-even-more-local/76605496>

“Hyperlocal Weather Data Offers Glimpse at How Tree Cover Affects Knoxville Neighborhoods.” *The Knoxville Mercury*, 10 March 2016. I was interviewed on microclimate research. <http://www.knoxmercury.com/2016/03/09/hyperlocal-weather-data-offers-glimpse-tree-cover-affects-knoxville-neighborhoods/>

- “Unique tornado study focuses on deadly Dixie Alley.” *Palm Beach Post*, 1 March 2016. I was interviewed by the paper to discuss risk and vulnerability to tornadoes in the Southeast and my research in VORTEX-SE.  
<http://www.mypalmbeachpost.com/news/weather/unique-tornado-study-focuses-on-deadly-dixie-alley/nqbRS/>
- 2015** “Studying Tennessee’s Twisters.” *The Method* on 91.9 WUOT, 26 August 2015. M.S. student Vincent Brown was interviewed on the local NPR affiliate to discuss our research on Tennessee tornadoes.  
<http://wuot.org/post/method-science-collaborations-and-studying-tennessees-twisters>
- 2014** “Peering into past weather.” *The Method* on 91.9 WUOT, 26 September 2014. I was interviewed on the local NPR affiliate to discuss my research on using proxy evidence to inform hurricane risk climatology.  
<http://wuot.org/post/method-peering-past-weather-and-turning-tires-power>
- “Climate report: Rough weather ahead for Tennessee.” *WBIR* via Gannett Washington Bureau, 9 May 2014. I was interviewed to discuss how the National Climate Assessment report relates to Tennessee's climate.  
<http://www.tennessean.com/story/news/politics/2014/05/09/climate-report-rough-weather-ahead-tennessee/8917639/>
- “Interdisciplinary Study of Three Urban Neighborhoods in Knoxville.” *Transformations: Community Engagement Newsletter*, The University of Tennessee, 10 April 2014. Our work was regarded as Community Engagement News.
- 2013** “Twister history: Model to correct tornado records for better risk assessment.” *Science Daily*, 12 September 2013. Article features our research on tornado report biases, led by Jim Elsner. <https://www.sciencedaily.com/releases/2013/09/130912143219.htm>
- “FSU Model Designed to Better Gauge Tornado Risk.” *Science Daily*, 6 September 2013. Article features our research on tornado report biases, led by Jim Elsner.  
<http://www.propertycasualty360.com/2013/09/06/fsu-model-designed-to-better-gauge-tornado-risk?slreturn=1467035333>
- 2012** “Longwood students chase tornadoes in Great Plains.” *Richmond Times Dispatch*, 5 June 2012. My summer undergraduate field course on storm chasing was featured on the front page of the paper, including quotes from my students and me.  
[http://www.richmond.com/news/article\\_fb2f0f23-ca9d-513e-9b3c-62d63816c6dc.html](http://www.richmond.com/news/article_fb2f0f23-ca9d-513e-9b3c-62d63816c6dc.html)