

## Erik Tyler Smith

325 S. Lincoln Street | 445 McGilvrey Hall

Kent, OH

[esmit149@kent.edu](mailto:esmit149@kent.edu)

### **Education:**

Kent State University, Kent, OH (08/2017 – 05/2021)

Ph.D. in Geography                      GPA: 4.0

Kent State University, Kent, OH (08/2015 – 08/2017)

Masters in Geography                      GPA: 4.0

Western Kentucky University, Bowling Green, KY (08/2012 – 05/2015)

Major: Meteorology                      Major GPA: 3.72                      Cumulative GPA: 3.4

Minor: Geographical Information Systems

### **Employment:**

- Research Assistant at Kent State University (June 2016 - present)
  - Development of a Great Lakes water clarity index to be used as a climate indicator
  - Funded by NASA
- Teaching Assistant at Kent State University (August 2015 - May 2016)
  - Physical geography lab instructor, two sessions
- Forecaster, Yellowberri Weather and Consulting Company, Bowling Green, KY (August 31, 2014 – May 2015)
  - Issue forecasts for the Warren County area, maintain the blog, give schools talks, assist with NWS storm surveys, and provide live updates during extreme weather events
- Intern Climatologist, Midwestern Regional Climate Center, Champaign, IL (May 21, 2014 - August 15, 2014)
  - Managed the Service Climatologist office and assisted in the Accumulated Winter Season Severity Index project (AWSSI) by quality controlling the data

### **Scholarships/Awards:**

- Kent State University Graduate Research Award
  - \$2,000 – Awarded based on project proposal
- Beck Publication Award
  - \$500 - Awarded to graduate student in the Department of Geography with the best publication (Award year: Fall 2018 – Spring 2019)
- Elected as the Information Services Chair in the Graduate Student Senate (GSS) at Kent State University (paid position)
  - Maintain all items concerning the GSS website (bylaws, research and travel awards, minutes, committee member's information) and help facilitate senator meetings
- Most Outstanding Senior Meteorology Major (2014-2015 academic year, Western Kentucky University)
- Most Outstanding Presentation in the Earth Sciences Division at the Kent State University Graduate Student Research Symposium
- James & Avo Taylor Scholarship (2014 – 2015 academic year)
- Selected as Ambassador of the Western Kentucky University College of Science and Engineering
- WKU Department of Geography and Geology Excellence Scholarship (Fall 2013 – Spring 2014)
- L. Stanley Pigman Engineering Scholarship (University of Kentucky, Fall 2010 – Spring 2011)
- Chosen to partake in a National Award-winning storm chasing class at Western Kentucky University

### **Research and Publications:**

(Under Review) - Smith, Erik, and Scott Sheridan. Where do Cold Air Outbreaks occur and how have they changed?

(Accepted) - Sheridan, S. C., Lee, C. C., Adams, R., Smith, E. T., Pirhalla, D., & Ransibrahmanakul, V. (2019). Temporal modeling of anomalous coastal sea-level values using synoptic climatological patterns. *Journal of Geophysical Research: Oceans*.

(Accepted) - Smith, Erik, and Scott Sheridan. "The Characteristics of Extreme Cold Events and Cold Air Outbreaks in the Eastern United States." *International Journal of Climatology*. (2018).

(Accepted) – Smith, Erik and Scott Sheridan. “The Influence of Extreme Cold Events on Mortality in the United State.” Science of the Total Environment. (2018).

(Accepted) - Smith, Erik, and Scott Sheridan. “The Influence of Atmospheric Circulation Patterns on Cold Air Outbreaks in the Eastern United States.” International Journal of Climatology. (2018).

### **Conference Presentations:**

- Where do Cold Air Outbreaks occur and how have they changed?
  - Presented poster at the American Geophysical Union (AGU) in San Francisco, California (December 2019)
  - Presented at NOAA’s 44<sup>th</sup> Climate Diagnostics and Prediction Workshop in Durham, North Carolina (October 2019)
- The Influence of Extreme Temperature Events on Mortality in the Eastern United States
  - Presented at the American Association of Geographers Conference (AAG) in New Orleans, Louisiana (April 2018)
  - Presented at the Kent State University Graduate Research Symposium (April 2017)
- The Characteristics of Cold Air Outbreaks in the Eastern United States and the Influence of Atmospheric Teleconnections
  - Presented Poster at the American Geophysical Union (AGU) in New Orleans, Louisiana (December 2018)
  - Presented at the American Association of Geographers Conference (AAG) in Boston, Massachusetts (April 2017)
  - Presented at the Applied Geography Conference in Louisville, Kentucky (October 2016)
  - Presented at Kent State University Graduate Research Symposium (April 2016)
    - Selected as most outstanding in presentation category
- Spatial Analysis of the Correlation between Teleconnections and the Accumulated Winter Season Severity Index. Advisor: Dr. Gregory Goodrich. (August 2014 – present)
  - Presented at the East Lakes American Association of Geographers conference at Kent State University
- Synoptic Analysis of the Effects of an East versus West Based Negative NAO on Winter Storm Events in the Ohio Valley. Advisor: Dr. Joshua Durkee. (August 2014 – December 2014)

- Remote Sensing Analysis of a Possible Tornado in Brewster, Nebraska. Advisor: Dr. Joshua Durkee. (January 2014 – May 2014)
  - Presented at Western Kentucky University Research Conference (March 22, 2014)
- The Difference Between Storm Chasing and Storm Spotting
  - Presented at Severe Weather Awareness Day in Nashville (03/01/2014)

### **Skills:**

- Programming and Statistics
  - MATLAB (Neural Networking, Mapping, and Statistics and Machine Learning Toolboxes)
  - ArcGIS for Desktop, ArcGIS ModelBuilder, and ArcGIS Online
  - Other Software: R, HTML, CSS, Python, Drupal, SPlus, SPSS, SAS, IDV, and Bufkit
- Organization and Planning
- Writing
- Public Speaking
- Leadership
- Research

### **Activities:**

#### Graduate

- Geography Department Senator for the Graduate Student Senate (2019 – 2020)
- Geography Graduate Student Association executive board member (2016 – 2017)
- Geography Department Website Designer/Editor
- Participate in the WxChallenge: A nationwide forecasting competition

### **Community Involvement/Volunteer Work:**

#### **Research Award committee**

- STEM Commercialization & Entrepreneurship Forum
  - Lead a discussion with high school students on possible careers in STEM
- Citizens' Climate Lobby (CCL): Hudson, OH chapter (2018 – Present)
  - Helped develop, promote, and lead the new CCL chapter in Hudson, OH
- Panelist on for the "Countdown to Climate Catastrophe" event at Kent State University
  - Discuss aspects of climate change with the local community

- School Talks (2013 – present)
  - Visit Elementary and High Schools and talk about weather safety and careers in weather
- Walk dogs at One of a Kind Pet shelter (Fall 2015 - Present)
- WKU Weather Camp assistant Director (July 2013)
  - First ever student lead weather camp for kids in the United States
- Relay for Life (2013 – 2014)