

# Tyler Fricker

Department of Geography, Florida State University, Tallahassee, FL, 32306-2190

tfricker@fsu.edu

<http://myweb.fsu.edu/tfricker/>

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## Education

Florida State University, Tallahassee, FL, Geography, PhD, 2019

Florida State University, Tallahassee, FL, Geography, MS, 2015

The Ohio State University, Columbus, OH, Environment and Natural Resources, BS, 2013

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## Professional Experience

Visting Assistant Professor, Department of Geography, Texas A&M University, 2019–2020

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## Awards and Appointments

Three Minute Thesis Finalist, Florida State University, 2017

University Research Assistant, Department of Geography, Florida State University, 2016 - 2017

University Teaching Assistant, Department of Geography, Florida State University, 2014 - present

University Mentor, Department of Geography, Florida State University, 2013–2014

Trustee Scholar, The Ohio State University, 2009–2013

Barnebey Family Scholar, The Ohio State University, 2011

Bert W. Martin Fund Scholar, The Ohio State University, 2010

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## Research Grants

*Experiment* Weather and Atmospheric Science Grant - \$3,501

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## Selected Publications

### 2019

Fricker, T. (2019). “Tornado-level estimates of socioeconomic and demographic variables”. In: *Natural Hazards Review*, p. In review.

Fricker, T. and J. B. Elsner (2019). “Unusually devastating tornadoes in the United States: 1995-2016”. In: *Annals of the American Association of Geographers*, p. Accepted.

### 2017

Fricker, T., J. B. Elsner and T. H. Jagger (2017). “Population and energy elasticity of tornado casualties”. In: *Geophysical Research Letters*. DOI: 10.1002/2017gl073093. URL: <https://doi.org/10.1002/2017gl073093>.

Fricker, T., J. B. Elsner, V. Mesev and T. H. Jagger (2017). “A dasymetric method to spatially apportion tornado casualty counts”. In: *Geomatics, Natural Hazards and Risk*, p. 1–15. DOI: 10.1080/19475705.2017.1386724. URL: <http://dx.doi.org/10.1080/19475705.2017.1386724>.

### 2015

Fricker, T. and J. B. Elsner (2015). “Kinetic Energy of Tornadoes in the United States”. In: *PLOS ONE* 10.7, p. e0131090. DOI: 10.1371/journal.pone.0131090. URL: <http://dx.doi.org/10.1371/journal.pone.0131090>.

### 2014

Fricker, T., J. B. Elsner, P. Camp and T. H. Jagger (2014). “Empirical estimates of kinetic energy from some recent U.S. tornadoes”. In: *Geophysical Research Letters* 41.12, pp. 4340-4346. DOI: 10.1002/2014gl060441. URL: <https://doi.org/10.1002/2014gl060441>.

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## Participation in Conferences and Professional Meetings

### Conferences

Fricker, T. (2019). *Unusually devastating tornadoes*. Paper presented at: AAG Annual Conference.

Fricker, T. (2018). *Unusually devastating tornadoes*. Paper presented at: SEDAAG Annual Conference.

Fricker, T. (2018). *Social correlates of tornado casualties*. Paper presented at: AAG Annual Conference.

Fricker, T. (2017). *Elasticity of tornado casualties*. Paper presented at: Applied Geography Annual Conference.

Fricker, T. , J. B. Elsner, and T. H. Jagger (2017). *Energy and population elasticity of tornado casualties*. Paper presented at: AAG Annual Conference.

Fricker, T. , and J. B. Elsner (2016). *Energy and population elasticity of tornado casualties*. Paper presented at: SEDAAG Annual Conference.

Fricker, T. , and J. B. Elsner (2016). *Energy and population elasticity of tornado casualties*. Poster presented at: 28th Conference on Severe Local Storms.

Fricker, T. , and J. B. Elsner (2016). *Tornado casualty maps*. Paper presented at: AAG Annual Conference.

Fricker, T. , J. B. Elsner, H. Widen, T. Jagger, and V. Mesev (2016). *Mapping tornado casualties and energy*. Paper presented at: AMS Annual Conference.

Fricker, T. , J. B. Elsner, and T. Jagger (2015). *Spatial climatology of tornado energy*. Paper presented at: SEDAAG Annual Conference.

Fricker, T. (2015). *Empirical Estimates of tornado kinetic energy from U.S. tornadoes (2007-2013)*. Paper presented at: AAG Annual Conference.

Fricker, T. (2014). *Empirical estimates of tornado kinetic energy using the Storm Prediction Center's tornado database*. Paper presented at: SEDAAG Annual Conference.

Fricker, T. (2014). *Empirical estimates of kinetic energy from some recent tornadoes*. Poster presented at: AAG Annual Conference.

## Workshops

Fricker, T. (2016). *A Dasymetric Method to Estimate Tornado Casualties Spatially*. Poster presented at: 2016 Severe Convection and Climate Workshop.

## Invited Talks

Fricker, T. (2018). *The Vulnerable: How Race, Age and Poverty Relate to Tornado Casualties*. National Tornado Summit.

## Conference and Workshop Organization

Session Chair: Tornadoes, Climate, and Society. 2019 American Association of Geographers Annual Meeting, Washington, DC.

Session Chair: Tornadoes, Climate, and Society (I and II). 2018 American Association of Geographers Annual Meeting, New Orleans, LA.

Session Chair: Tornadoes, Climate, and Society. 2017 American Association of Geographers Meeting, Boston, MA.

Session Co-Chair: Tornadoes, Climate, and Societal Impacts. 2016 American Association of Geographers Annual Meeting, San Francisco, CA.

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## Teaching Experience

GEO 4251 Climate Change and Storms

GEO 3423 Sports Geography

GEO 2200C Physical Geography

GEO 1330 Environmental Science

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## **Undergraduate Mentorship**

Undergraduate Research Opportunity Program: John Thomas Allemeier and Amelia Baxter

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## **Academic Service**

President, Graduate Researchers of Geography, Florida State University

Refereed Journals: BMJ Open, Climate Dynamics, Injury, International Journal of Biometeorology, Journal of Civil and Environmental Engineering, Journal of Climate, PLOS ONE, Professional Geographer, Weather, Climate, and Society

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## **Professional Organizations**

American Meteorological Society

American Association of Geographers

Southeastern Division of the American Association of Geographers