

**Austin Britton, M.S.**  
Graduate Researcher  
Department of Geography  
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## RESEARCH PROFILE

I am a climatologist, primarily focused on furthering our understanding of precipitation and climate dynamics, including trends, dynamics, and impacts. I utilize quantitative methods such as data analysis and weather/climate modeling to examine such phenomena, and focus output to be utilized by local decisionmakers. I also utilize qualitative methods to examine and answer questions concerning inequity and community engagement revolving around local climate action.

## EDUCATION

- PhD**                      **Geography, University of Florida, Gainesville, Florida, 2022-Current**  
ABD, Expected graduation Spring 2026  
Dissertation: *From Frozen Hazards to Community Solutions: Investigating Freezing Rain in a Changing Climate alongside local Climate Action Plans*
- Master of Science**            **Geodata Science, Purdue University, West Lafayette, Indiana, 2021-2022**  
Thesis: *Analysis of Freezing Rain Patterns across the United States*
- Bachelor of Science**      **Atmospheric Sciences, Purdue University, West Lafayette, Indiana, 2016-2020**

## EXPERIENCE

- 2025 - Current**            **Graduate Teaching Assistant, University of Florida**  
Conduct regular office hours to address student questions  
Graded and provided detailed feedback to students  
Co-facilitate in class learning exercises
- 2022 - Current**            **Graduate Research Assistant, University of Florida**  
Conduct research and analysis regarding the climatic shifts of freezing rain over the previous several decades  
Analyze and develop working understanding of climate action planning process as compared to existing literature
- 2022 - 2022**                **Teaching Assistant, Purdue University**  
Explain complicated subjects to students to enhance understanding  
Graded Assignments and gave constructive feedback on performance

**2018 - 2022**

**Research Assistant, Purdue University**

Conduct research and experiments to identify weather patterns and test for accuracy, documenting changes in in-depth reports.

Planned, executed, and reported data analysis on large datasets to increase understanding of freezing rain

## **PROFESSIONAL AND SERVICE**

### **UNIVERSITY SERVICE**

**Graduate-Faculty Student Representative, Geography Department 2024-2025.**

Coordinated communication between graduate students and faculty, attended faculty meetings, and organized events for holidays and visiting faculty.

**Bargaining Chair, UF-GAU, 2024-Current.** Organized bargaining sessions for graduate union, including planning sessions and advocating for improving the current contract and rights of graduate students.

**Co-President for UF-GAU, April 2025-Current.** Coordinated day to day activities of GAU, including communicating with 4000 graduate assistants, planning events, and developing and implementing long term strategies for improving engagement.

**UF Graduate Student Senator, May 2024-Current.** Advocate for graduate students across campus, including identifying issues facing students, advocating for solutions, meeting with stakeholders across campus, and passage of resolutions towards addressing concerns.

**UF Student Senate Judiciary Committee Member, Spring 2025-Current.** Attend weekly judiciary meetings to review all submitted legislation and judicial appointments prior to submission to the senate chamber.

**UF Joint Committee on Sustainability Member, Fall 2024-Current.** Attend monthly meetings to discuss sustainability efforts on campus, work to advocate for increased sustainability efforts

### **PROFESSIONAL SERVICE AND DEVELOPMENT**

**AG Alumni Association Founder and Board Member, Alpha Phi Omega, 2023-Current.**

Organize and attend monthly meetings, create and implement plans for alumni events, and work to address barriers to entry for undergraduate organization.

**Vice President of Service for Gender Inclusive Service Organization, 2020.** Organized service opportunities for 60 students, achieving over 2000 hours of service across the community within a single semester. Coordinate with community partners.

**Sergeant at Arms for Gender Inclusive Service Organization**, 2021. Review bylaws for organization, coordinate discussions for improvement, and implement changes to improve accessibility.

**City Commissioner for West Lafayette Go Greener Commission**, 2020-2022. Attend monthly meetings to discuss green efforts across the city. Discuss and research potential avenues for sustainability. Work with city officials to implement efforts.

**Cost Share Committee member for Wabash River Enhancement Corporation**, 2021. Analyze submissions for funding requests for sustainability efforts, and vote on acceptance of funding.

## AWARDS

**Poehling Award.** Awarded to recognize a combination of academic excellence, commitment to departmental service, and leadership in our graduate program. One PhD and one Master's student is chosen annually. University of Florida Geography Department, 2025.

**Outstanding GDSP Student – GeoData Science for Professionals.** Awarded for excellent work throughout work done as a teaching assistant and doing research. Purdue University, 2022.

## PUBLICATIONS AND CONFERENCES

### Published Work

**Britton, A. R., & Mullens, E. D.** (2025). Temporal and Spatial Analysis of Freezing Rain Regimes over Eastern North America. *Journal of Applied Meteorology and Climatology*.  
<https://doi.org/10.1175/JAMC-D-24-0173.1>

**Britton, A., and E.D Mullens, TBD.** A weather regime-based analysis of freezing rain trends in a warmer climate for Eastern North America. *International Journal of Climatology*. *Accepted for Publication*

### Publications In Preparation

**Britton, A., and E.D Mullens, TBD.** Understanding Community Engagement in the Context of Local Climate Action Planning: A Scoping Review *In Prep*

### Conference Presentations

**Britton, A.** and E.D Mullens, 2025. Analysis of climatic shifts in freezing rain events and patterns over Eastern North America. *38th Conference on Climate Variability. AMS Annual Meeting, New Orleans, LA, January 13, 2025.*

**Britton, A.,** Vemireddy D++, and Mullens E.D. 2024. Temporal and spatial analysis of freezing rain over Eastern North America. *37<sup>th</sup> Conference on Climate Variability. AMS Annual Meeting, Baltimore MD, Jan 31, 2024.*

## **PROFESSIONAL MEMBERSHIPS**

American Meteorological Society (2023-)