

SHADYA J. S. DAVIS
Department of Geography
University of South Carolina
Columbia, South Carolina, 29208
shadya@sc.edu

EDUCATION

- 2022 Ph.D. Atmospheric Sciences, Howard University
- 2011 B.S. Interdisciplinary Earth and Atmospheric Sciences with support in Anthropology,
Purdue University

APPOINTMENTS

University of South Carolina – Columbia, SC
2024 – Research Assistant Professor, Department of Geography

OTHER APPOINTMENTS

Howard University – Washington, DC
2023 – 2024 Post Doctoral Researcher, NOAA Global Systems Laboratory, Social and Behavioral
Sciences Branch

Pennsylvania State University – State College, PA
2022 – 2023 Post Doctoral Researcher, Department of Meteorology

AWARDS

- 2021 Societal Applications Symposium, Board of Societal Impacts. Honorable Mention, Oral
Presentation. “A Surge of Information: How Multiple Information Sources Influence
African Americans’ Protective Actions against Storm Surge.” American Meteorological
Society.
- 2019 Capitol Hill Scholar. University Corporation for Atmospheric Research.
- 2018 Edward A Bouchet Graduate Honor Society Inductee. Yale University – Howard
University.

PUBLICATIONS

ARTICLES

- 2024 Hathaway, J. R., Moses, J. M., **Sanders Davis, S. J.**; Rowan, K. E., Colle, B. A., Bojsza,
E. J., Hils, A. L., Duesterhoeft, E. C., Boorboor, Kaufman, A. E., & Brennan, S. E.
Impact of a Workshop with Visualization and Ethics Discussion on Awareness of Flood
Risk and Intent to Protect. Under Review.
- 2023 Colle, B. A., Hathaway, J. R., Bojsza, E. J., Moses, J. M., **Sanders, S. J.**, Rowan, K. E.,
Hils, A. L., Duesterhoeft, E. C., Boorboor, S., Kaufman, A. E., & Brennan, S. E. (2023).
Risk Perception and Preparation for Storm Surge Flooding: A Virtual Workshop with

Visualization and Stakeholder Interaction. *Bulletin of the American Meteorological Society*.
<https://doi.org/10.1175/BAMS-D-22-0145.1>.

- 2022 Henny, L., Gaudet, L., Lupo, K., Goods, K., **Sanders, S.**, Zhang, Y., (2022). Recommendations for Inter-institutional and Interdisciplinary Research Informed by a PIRE Graduate Student Cohort Perspective. *Bulletin of the American Meteorological Society*.
<https://doi.org/10.1175/BAMS-D-21-0057.1>.
- 2020 **Sanders, S.**, T. Adams, E. Joseph, 2020: Severe weather forecasts and public perceptions: An analysis of the 2011 super outbreak in Tuscaloosa, Alabama. *Weather Climate and Society*. <https://doi.org/10.1175/WCAS-D-18-0090.1>.
- 2017 Adams, T. A., **Sanders, S.**, & Shivers, C. A. (2017, December). An exploratory examination of the impact of uncertainty on forecast data preference. *APEC Research Center for Typhoon and Society*, Vol. 7(2), 11-15.

GRANTS AWARDED

EXTERNAL AWARDS

- 2024 Natural Hazards Center. “Informational Needs for Prescribed Fire Decision Making across U.S. Lands.” \$7,500. Quick Response Grant.

PRESENTATIONS

ACADEMIC CONFERENCES

- 2025 Davis, S. J. S. “Informational Needs and Decision-Making for Prescribed Burns within the United States.” American Meteorological Society Annual Meeting, New Orleans, LA, January **, 2025.
- Davis, S. J. S. “Prescribed Fire and the Paradoxical Policies that Inhibits its Practice.” American Meteorological Society Annual Meeting, New Orleans, LA, January **, 2025.
- 2024 Vickery, J., Atrash, D., Hoekstra, S., Sanders Davis, S. J., Vaughn, C., Wells, E. “Beyond the Forecast: Enhancing Decision Support through Social and Behavioral Sciences”. National Oceanic and Atmospheric Administration Global Systems Laboratory. Virtual. September 3, 2024.
- 2023 Sanders, S. J. “What IDSS Means to Me: How Different Regions Implement Impact-Based Decision Support Services (IDSS). American Meteorological Society Annual Meeting, Denver, CO, January 12, 2023.
- 2021 Sanders, S. J. “A Surge of Information: How Multiple Information Sources Influence African Americans’ Protective Actions against Storm Surge.” (*Honorable Mention Awarded*) American Meteorological Society Annual Meeting, Virtual, January 11, 2021.

2020 Sanders, S. J. “An Examination of Decision Making by Emergency Managers during Severe Weather Events: A Test of Messaging with Fuzzy Trace Theory.” American Meteorological Society Annual Meeting, Boston, MA, January 15, 2020.

COLLOQUIUM/PUBLIC LECTURES

2024 Davis, S. J. S. “Prescribed Fire Across the United States: Processes, Perceptions, and Policies.” Hazards, Vulnerability, and Resilience Institute. Brown Bag Lecture. University of South Carolina. October 4, 2024.

Davis, S. J. S. “Understanding Humans in a World of Extreme Weather.” School of Marine and Atmospheric Sciences Colloquium. Stony Brook University. March 20, 2024.

CONFERENCE SESSION CHAIR

2024 Session Chair. “Mitigating Wildfire and Smoke Risks.” American Meteorological Society Annual Meeting. Baltimore, MD, January 29, 2024.

Session Chair. “Novel Approaches to Building a Weather Ready Nation.” American Meteorological Society Annual Meeting. Baltimore, MD, January 30, 2024.

TEACHING

OTHER INSTRUCTION

2024 Guest Lecturer. GEOG 202 – Weather and Climate. Fall 2024. University of South Carolina.

2022 Instructor. Writing for Publication. Spring 2022. Virtual. NOAA Cooperative Science Center for Atmospheric Sciences and Meteorology.

GRADUATE THESES

OTHER UNIVERSITY, COMMITTEE

2024 Josef Moses. Flood Risk Perceptions and Protective Actions: Investigating the Impacts of Immersive Visualization and Group Interactions on Vulnerable Populations, Stony Brook University – Long Island, NY (MS).

SERVICE

JOURNAL MANUSCRIPT REVIEW

2022 *Weather, Climate, and Society*

PROFESSIONAL SERVICE

NATIONAL

2022 – Mentor, Annual Biomedical Research Conference for Minoritized Students.

2024 – Student Poster and Oral Presentation Judge, Symposium on Societal Applications:
American Meteorological Society Annual Meeting.

COMMUNITY SERVICE

2017 – SisterMentors Alumnae Member, EduSeed.

PROFESSIONAL MEMBERSHIPS

American Meteorological Society