

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