

SHADYA J. S. DAVIS, Ph.D.

Department of Geography
University of South Carolina
shadya@mailbox.sc.edu

EDUCATION

Howard University

Doctorate – Atmospheric Science

December 2021

Purdue University

Bachelor of Science

May 2011

RESEARCH INTERESTS

- Risk Perceptions
- Risk Communication
- Protective Actions
- Mesoscale Convective Systems
- Tropical Cyclones and Storm Surge
- Prescribed and Wildland Fire

RESEARCH EXPERIENCE

NOAA Global Systems Laboratory (GSL) Social and Behavioral Sciences Branch (SBS) and the NOAA Cooperative Science Center for Atmospheric Sciences and Meteorology (NCAS-M) at Howard University

Postdoctoral Scholar **Mar. 2023 – Aug. 2024**

- Investigating end-user weather and climate information needs for prescribed fire for the southeast, Northern Rockies, and California. Quick Response Travel Grant Awarded from Natural Hazards Center \$7,500.

CANVASS CoPe - Science Communication for Community Decision Making at Stonybrook University

Survey Design (remote) **Feb. 2022 – Present**

- The Coastal Alliance for Visualization, Assessment, Science and Stakeholders (CANVASS) is a collaborative effort between Stonybrook University, George Mason University, and Howard University to investigate the intersections of predictive science, data analysis, visualization, public engagement, and education to address coastal and relative flooding and its connected implications.

Department of Meteorology and Atmospheric Sciences at Penn State University

Postdoctoral Scholar **Jul. 2022 – Mar. 2023**

- Evaluating the perceptions and performance of the Impact-Based Decision Support Services (IDSS) tool by qualitatively analyzing the experiences of Meteorologists in Charge (MICs), Hydrologists in Charge (HICs), Warning Coordination Meteorologists (WCMs), Service Coordination Meteorologists (SCMs), and Emergency Managers (EMs).

PUBLICATIONS

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. (Accepted, April 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>.

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>.

Sanders, S., T. Adams, E. Joseph, 2020: Severe weather forecasts and public perceptions: An analysis of the 2011 super outbreak in Tuscaloosa, Alabama. *Wea. Climate Soc.*
<https://doi.org/10.1175/WCAS-D-18-0090.1>.

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.

MEMBERSHIPS

American Meteorological Society