

## Natasha Prudent Malmin, PhD, MPH

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### EDUCATION

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#### GEORGIA STATE UNIVERSITY & GEORGIA INSTITUTE OF TECHNOLOGY

**Degree:** Joint PhD in Public Policy

**Research Focus:** Disaster Policy

**Atlanta, GA**

*May 2021*

#### EMORY UNIVERSITY

**Degree:** Master of Public Health

**Concentration:** Global Environmental Health

**Decatur, GA**

*May 2008*

#### DENISON UNIVERSITY

**Degree:** Bachelor of Arts

**Major:** Chemistry

**Granville, OH**

*May 2006*

### GRANTS

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#### *Submitted*

- *Principal Investigator:* National Science Foundation. Title: “Exploring Public Perceptions of Compound Climate-Related Disaster Risks and Public Health Intervention Strategies.”

#### *Active*

- *Principal Investigator:* Georgia State University. Title: “Community-Researcher Collaborative Hub Pilot: Bankhead Neighborhood.” 07/2025 – 06/2027
- *Co -Principal Investigator:* Georgia State University. Title: “Williamsburg PrEP: Expanding Knowledge and Access of HIV PrEP among rural Black Women pilot study.” 01/2024 -
- *Co-Investigator:* Centers for Disease Control and Prevention (CDC). Title: “DMA-PRIME (Disease Modeling and Analytics to Inform Outbreak Preparedness, Response, Intervention, Mitigation, and Elimination in South Carolina.” 08/2023 – 09/2025

#### *Terminated*

- *Co-Principal Investigator:* National Oceanic and Atmospheric Agency (NOAA). Title: “Innovating a Community-based Resilience Model on Climate and Health Equity in the Carolinas.” 7/2022 – 5/2025

#### *Completed*

- *Co-Investigator:* Livewell Greenville. Title: “Community-Driven Approaches to Address Factors Contributing to Structural Racism in Public Health.” 5/2022 – 7/2022
- *Co-Investigator:* Centers for Disease Control and Prevention (CDC). Title: “South Carolina Public Health Preparedness Student Corps (SCPHPSC)” - 6/2022 – 6/2023
- *Principal Investigator:* Bon Secours St Francis Health System. Title: “Lifting Cultural Competency and Other Policy Barriers in Health Care for Hispanic and Other Disadvantaged Communities in Greenville, South Carolina” - 6/2022 – 12/2022

### TEACHING EXPERIENCE

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- Georgia State University: Instructor of Record – Fundamentals of Environmental Health (undergraduate level), Introduction to Environmental Health (graduate level)
- Clemson University: Instructor of Record –Public Policy Evaluation, Policy Process and Theory, Public Health Emergency Response
- Georgia State University: Instructor of Record –Introduction to Policy Analysis

## Fellowships, Training and Service

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- National Center for Faculty Development and Diversity: Summer Faculty Success Program – 2025
- Institute for Georgia Environmental Leadership: Class of 2024
- Public Health Extreme Events Research Network (PHEER) Steering Committee 2024 - 2027
- William Averette Anderson Fund (BAF) Fellowship 2016 – present.
- GSU MPH Application Review Committee 2024 – Present
- 2024 APPAM Program Committee Submissions Review
- Academic Affairs Committee 2024 – 2026
- GSU Write-In-Network Scholar 2023 - 2024

## PUBLICATIONS

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- **Malmin, N.** Cawley, M. Driffin, A. Pressley, T. Exploring the interconnections of food security, climate change, disasters, and health in a rural South Carolina community. (*in prep*)
- Runkle, J.... **Malmin, N.** Examining the influence of prenatal exposure to extreme heat on pregestational and gestational diabetes. (*in prep*)
- **Malmin, N.** Esnard, AMS. Accounting for perceived equity factors in recovery outcomes: a deeper dive into federal disaster assistance after Hurricane Harvey. Risks, Hazards, and Crises, in Public Policy. (*submitted*)
- Marlon J. Begotka N. Preston A. Steifel M. Kennan J. Inman C. **Malmin N.** et al. Misalignment between objective and subjective risks exacerbates vulnerability to extreme heat. Nature Climate Change (*submitted*)
- Marshall, JT. Palm, R. Esnard, AM, Stuaber, C. **Malmin N.** Johnston K. 2024. *Commentary: Ensuring a sustainable future for hurricane-vulnerable rural communities*. Retrieved January 14, 2025, from <https://www.planetizen.com/features/131714-commentary-ensuring-sustainable-future-hurricane-vulnerable-rural-communities>
- **Malmin N.** Owen S. Hoyos Lopez D. McKinney R. Rodríguez V. Disparities and the Influence of Culturally Competent Care in Overall Health and Healthcare Utilization among Hispanics in an Emerging Southeastern US Community. *Hispanic Health Care International*. 2024.0(0): <https://doi.org/10.1177/15404153241289550>
- Herbst K. **Malmin N.** Paul S. Williamson T. Margaret M. Sugg MM. Schreck CJ. Runkle JD. Examining recurrent hurricane exposure and psychiatric morbidity in Medicaid-insured pregnant populations. *PLOS Mental Health* 2024.1(1): e0000040. <https://doi.org/10.1371/journal.pmen.0000040>
- **Malmin N.** Van Nostrand. Comparison of Laws that Impact Volunteer Response in Three Disaster-Prone Southeastern States. *J. Public Health Management and Practice*. 30(5):p E247-E254, September/October 2024. | DOI: 10.1097/PHH.0000000000001965
- **Malmin N.** How access to federal recovery credit assistance influences future wealth trajectories after a natural disaster: the case of Hurricane Harvey. *International Journal of Disaster Risk Reduction*. 2023. 99. 104131 <https://doi.org/10.1016/j.ijdr.2023.104131>
- **Malmin N.** Eisenman, D. Disability Prevalence and Community-Level Allocation of Hurricane Harvey Federal Disaster Recovery Assistance in Texas. *Journal of Disability Policy Studies*, 2023. 10442073221150609.
- **Malmin N.** Navigating Federal Disaster Assistance Eligibility and Special Accommodations: The Case of Hurricane Harvey. *Natural Hazards Review*. 2023. 24(2), 04022049.
- **Malmin N,** Esnard A-M, Wyczalkowski C, Lai B. Schools and disasters: examining the evidence for K-12 settings across the emergency management phases. *Journal of Emergency Management*, 19(4), 327–337. <https://doi.org/10.5055/jem.0501>
- **Malmin N.** Historical disaster exposure and household preparedness across the US. *Disaster Med Public Health Prep*. 2020 Jan 13;1-7. doi: 10.1017/dmp.2019.123
- Esnard A-M, Lai BS, Wyczalkowski C, **Malmin N,** Shah HJ. School vulnerability to disaster: examination of school closure, demographic, and exposure factors in Hurricane Ike’s wind swath. *Natural Hazards*. 2017. doi: 10.1007/s11069-017-3057-2
- Stehling-Ariza T, Fisher E, Vagi S, Fechter-Leggett E, **Prudent N,** Dott M, Daley R, Avchen RN. Monitoring of persons with Risk for exposure to Ebola Virus Disease - United States, November 3, 2014-March 8, 2015. *Morb Mortal Wkly Rep*. 2015 Jul 3;64(25):685-9.

- Lulla V, Stanforth A, **Prudent N**, Johnson D, Lubert G. Modeling vulnerable urban populations in the global context of a changing climate. In Innovating for Healthy Urbanization. Roy A, Burke T, McGahan A (Eds.) 2015. 193-208. doi: 10.1007/978-1-4899-7597-3\_9
- Houghton A, **Prudent N**, Scott JE, Wade R, Lubert G. Climate change-related vulnerabilities and local environmental public health tracking through GEMSS: A web-based visualization tool. *Appl. Geog.* 2012, 33, 36–44.
- Portier CJ, Thigpen Tart K, Carter SR, Dilworth CH, Grambsch AE, Gohlke J, Hess J, Howard SN, Lubert G, Lutz JT, Maslak T, **Prudent N**, Radtke M, Rosenthal JP, Rowles T, Sandifer PA, Scheraga J, Schramm PJ, Strickman D, Trtanj JM, Whung P-Y. A Human Health Perspective on Climate Change: A Report Outlining the Research Needs on the Human Health Effects of Climate Change. Env. Health/ NIEHS. 2010. Available: [www.niehs.nih.gov/climate/report](http://www.niehs.nih.gov/climate/report)
- Lubert G, **Prudent N**. Climate change and human health. *Trans Am Clin Climatol Assoc.* 2009;120:113-7.
- **Prudent N**, Houghton A, Stewart J, Petersen A, Thompson R, Byrne M, Lubert G. Addressing climate change and local public health: the Austin Climate Protection Program and the CDC Working Group on Climate Change collaboration. *J Environ Health.* 2009 Apr;71(8):18-9.
- **Prudent N**. Community acceptance and annual maintenance fee contracts for sustaining improved drinking water sources: an evaluation of the faith-based shallow well program Northern Region, Malawi 2007. Master's Thesis from Emory University: Rollins School of Public Health. 2008.

## EXPERIENCE

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### GEORGIA STATE UNIVERSITY

#### Department of Population Health Sciences School of Public Health

##### Assistant Professor

Atlanta, GA

August 2023- Present

- Served on the School of Public Health MPH and PHD application review committee.
- Invited to participate in the U.S. National Science Foundation National Center for Atmospheric Research (NSF NCAR) NCAR Earth System Science and Technology hubs, or NESTs strategic planning workshop. NESTs is an effort to reimagine ways in which NCAR delivers on its mission to enable research in the academic community, especially for society NESTs comprise regional partnerships that leverage NCAR's facilities and expertise, to conduct use-inspired science and translate that science into practical, societally beneficial results.
- Serving as an advisor/mentor to an MPH Graduate Research Assistant and PhD student
- Serving as a peer-reviewer on top journal publications
- Selected to become a fellow in the Institute for Georgia Environmental Leadership (IGEL) Class of 2024. IGEL focuses on empowering and connecting leaders to tackle Georgia's environmental challenges.
- Selected to serve on the steering committee of the Public Health Extreme Events Research Network (PHEER). PHEER's mission is to advance the field of public health disaster science by supporting and coordinating a community of practice that can mobilize rapidly to conduct time sensitive disaster investigations.

### CLEMSON UNIVERSITY

#### Department of Political Science College of Behavioral, Social and Health Sciences

##### Assistant Professor

Clemson, SC

August 2021- August 2023

- Elected Research Chair for the William Averette Anderson Fund Fellowship – Alumni Fellow, a non-profit which serves to increase the presence of underrepresented minorities in the field of natural disasters and hazard scientists.
- Participated in the Program for the National Science Foundation Workshop hosted by UNC Charlotte
- Participated in the 2021-2022 Clemson /Prisma NIH Accelerator Program
- US Department of Commerce, Economic Development Administration: University Center Forum panel reviewer
- Natural Hazards Researchers Meeting: Social Vulnerability, and Disaster-Related Disparities session moderator
- Selected to become a Clemson University School of Health Research (CUSHR) Faculty Scholar
- Selected to become a Center for Public Health Modeling and Response faculty affiliate
- Developed and collected IRB-approved survey methodology and focus group discussions data to understand barriers to culturally competent medical care among Latinx residents in Greenville County, while leveraging a large healthcare system's community health needs assessment (CHNA).
- Developed a database of South Carolina academic recovery data related to natural disasters
- Developed community-based partnerships with non-profits operating in Williamsburg County South Carolina, as well as Clemson Extension programs

- Worked closely with Furman University to develop proposals around built environment and health outcomes in Greenville County
- Served as an advisor/mentor to undergraduate honors thesis student and a Graduate Research Assistant
- Served on two successful search committees, a pathways post-doctoral scholar transitioning into a tenure track assistant professor position, and the chair of the Political Science Department
- Reviewed Master of Public Administration admissions applications
- Promoted, highlight and recruited students into the Master of Public Administration and the doctoral Policy Studies programs
- Served as a peer-reviewer for the Natural Hazards Review journal
- Submitted scientific abstracts to national conferences in my field

## **CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)**

**Atlanta, GA**

### ***Health Scientist- Office of Public Health Preparedness & Response***

*March 2012 – November 2015*

- Analyzed survey data to generate reports on the Pandemic Influenza Readiness Assessment
- Designed and conducted research on the detection of community displacement and recovery after natural disasters
- Conducted a systematic review identifying the mental health network structure within state public health emergency preparedness frameworks
- Designed a research proposal on the role of social media during public health emergency planning and response
- Assisted with evaluation of administrative preparedness among Public Health Emergency Preparedness (PHEP) grantees
- Evaluated Risk Based Funding (RBF) awardee deliverables to promote the accelerated development of standards and practices around public health risk assessments
- Conducted site visits with RBF pilot project awardees to monitor the execution of risk assessments and identified promising practices to inform the wider PHEP community
- Supervised the qualitative data analysis of the joint Extramural Research Program Office and Applied Science and Evaluation Branch research agenda project
- Provided technical assistance on the collection of data around PHEP Capability 1: Community Preparedness updates for PHEP awardees

## **CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)**

**Atlanta, GA**

### ***Health Scientist- Climate and Health Program***

*October 2008 – March 2012*

- Served as principal investigator, conducting an epidemiological study of wildfires and health in collaboration with the National Center for Atmospheric Research (NCAR) and California Environmental Protection Agency (CalEPA)
- Contributed to government white papers, articles and book chapters regarding urban resiliency, and methodological approaches toward assessing community vulnerability to climate change
- Designed policy briefs for CDC directors, HHS, and non-federal program partners concerning climate change and health studies, technical reports, and memorandums of understanding
- Utilized weather and health data to identify and analyze excess deaths due to extreme weather conditions. This was a subset of a larger pilot study developing an innovative methodology which incorporates health indicators into local climate change mitigation strategies for effective city planning and operations
- Provided technical assistance on requests for state and local health agencies on strategic climate change and health adaptation plans
- Assisted in the design, implementation and supervision of several internships and fellowships connecting climate change and health, including NCAR postdoctoral fellowship and the Association of Schools of Public Health (ASPH) doctoral fellowship on climate change, modeling and health
- Designed work plans, recruitment strategies and deliverables for work study students, Public Health Prevention Service (PHPS) fellows, and other post doc fellows
- Coordinated and awarded funding for climate change and health research across CDC centers through the interagency working group on climate change
- Presented work as the lead investigator on the place and health-based vulnerability to extreme heat and flooding study in Travis County, TX to the Board of Scientific Counselors review. The structure of the project would become the foundation of the CDC B.R.A.C.E. (Building Resilience Against Climate Effects) Framework.
- Collaborated with cross-agency partners (including: National Oceanic and Atmospheric Administration (NOAA), National Aeronautics and Space Administration (NASA), and the EPA to leverage existing resources such as climate, weather and environmental data acquisition to strengthen health analysis

- Served as a secondary investigator, conducting a scientific study using public health and NASA data models to improve Heat Watch Warning System for Decision Support

## **EMORY UNIVERSITY, RELIGION AND HEALTH COLLABORATIVE**

**Atlanta, GA**

### ***Geographic Information System (GIS) Mapping Specialist***

*October 2007 – October 2008*

- Developed a GIS mini-lab for participatory mapping among specific populations in metro-Atlanta, Zambia, Lesotho, Kenya and South Africa
- Designed a GIS-based curriculum for use by over 50 participants
- Created a database linking religious entities that provide specific health services in Zambia, Lesotho, Kenya, and South Africa

## **CDC DEPLOYMENTS**

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### **INTERNATIONAL EBOLA RESPONSE**

**Conakry, Guinea**

#### ***Infection Prevention and Control Team***

*February – April 2015*

- Developed funding mechanism for a \$500,000 national hospital triage service program and potential data collection systems for hospital administration and partners within Conakry, Guinea
- Converted paper-based facility assessments from the in-country implementing partner to a digital system for faster surveillance of case activities
- Developed an android-based data collection training for in-country team/partners
- Assisted on 5 site visits to non-Ebola Treatment Unit hospitals to assess possible points of exposure and triage breakdowns where healthcare workers became infected due to direct patient care of suspected/confirmed Ebola patients

### **DOMESTIC EBOLA RESPONSE, ACTIVE MONITORING UNIT**

**Atlanta, GA**

#### ***Data Team – State Coordination Task Force***

*December 2014 – February 2015*

- Coordinated with state, local, and federal agencies for active monitoring surveillance of over 700 individuals returning from Ebola-impacted West African countries into the US
- Collected information from state health departments to produce daily and weekly reports of persons in active monitoring. These reports were regularly escalated to HHS leadership and the White House

### **STRATEGIC INFORMATION & HEALTH SYSTEMS STRENGTHENING UNIT**

**Abuja, Nigeria**

#### ***International Experience & Technical Assistance Fellow***

*September – November 2014*

- Assisted in the implementation of the new President's Emergency Plan for AIDS Relief (PEPFAR) monitoring system of over 1000 service sites throughout the country to improve quality and reduce costs
- Ensured that reportable data were readily available for better and more informative reports
- Conducted 3 site visits to monitor site capacity at health centers and community-based organizations

### **HAITI CHOLERA RESPONSE**

**Port-au-Prince, Haiti**

#### ***Geospatial Information Systems Logistician***

*January 2011*

- Collaborated with international and national partners (including USAID, PAHO, WFP, UNICEF, UNOCHA, and the Haitian Ministry of Health) to coordinate mapping of cholera treatment facilities throughout the country
- Identified and maintained the cholera treatment supply/distribution chain following multinational donor draw down of efforts

## **SKILLS, TRAININGS & FELLOWSHIPS**

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**Computer Skills:** Microsoft Office · Outlook · SAS · SPSS · STATA · ArcGIS · MAXQDA · Atlas.ti

**Trainings:** US State Department Foreign Affairs Counter Threat (FACT), FEMA Environmental Health Training in Emergency Response (EHTER), IS-100.b, Introduction to the Incident Command System, IS-700.b, National Incident Management System (NIMS), An Introduction