

Natasha Prudent Malmin, MPH

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EDUCATION

Georgia State University| Georgia Institute of Technology

PhD: Public Policy –Joint Degree

August 2016 – Present

Atlanta, GA

Rollins School of Public Health, Emory University

Master of Public Health: Global Environmental Health

May 2008

Decatur, GA

Denison University

Bachelor of Arts: Chemistry

May 2006

Granville, OH

EXPERIENCE

Health Scientist

CDC/OPHPR/DSLRL/ASEB/SIART

March 2012 – November 2015

Atlanta, GA

- 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 using various statistical methods, Geographic Information System (GIS) mobile cell phone data
- 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 the 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
- Managed presentations and briefs on RBF progress to team, branch, and division leadership
- Participated in the recruitment of an ORISE fellow for the joint Extramural Research Program Office and Applied Science and Evaluation Branch research agenda project for OPHPR
- 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

Epidemiologist

CDC/NCEH/EHHE/Climate and Health Program

October 2008 – March 2012

Atlanta, GA

- 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
- 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
- Presented or participated in several conferences, workshops and colloquium nationally and internationally
- Provided technical assistance in the creation of a comprehensive communications campaign focusing on extreme heat and vulnerable populations. The campaign included developing a toolkit of materials that could be easily downloaded and customized by cities across the US which have or are developing coordinated public health responses to extreme heat events

GIS Mapping Specialist

Religion and Health Collaborative: Emory University

October 2007 – October 2008

Atlanta, GA

- Set up a Geographic Information System (GIS) Mini Lab for participatory mapping among specific populations in metro-Atlanta, Zambia, Lesotho, Kenya and South Africa
- Designed a curriculum detailing the use of innovative GPS technology and participatory GIS mapping
- Created a database linking religious entities which provide HIV/AIDS, Malaria, TB and/or Safe Water services in Zambia, Lesotho, Kenya, and South Africa

Principal Investigator

MMM & Synod of Livingstonia Church of Central Africa Presbyterian

June- August 2007

Mzuzu, Malawi

- Designed and performed an evaluation of the sustainability of improved shallow wells
- Performed quantitative analysis of the functionality trends of water-points using SAS and Excel
- Conducted qualitative analysis through in-depth interviews and focus group discussions with women and men in rural communities
- Utilized GPS devices to locate community water-points and mapped locations through ArcGIS
- Trained and directed research staff to aid in the collection of the qualitative data
- Designed a curriculum to be implemented by the organization, based on the evaluation findings

DETAILS & DEPLOYMENTS

Infection Prevention and Control Team – IPC

CDC - International Ebola Response

February – April 2015

Conakry, Guinea

- Worked closely with CDC Procurement and Grants Office to develop funding mechanism for national hospital triage services and potential data collection systems for hospital administration and partners within Conakry, Guinea
- Converted paper-based IPC facility assessments from the in-country implementing partner to an EpiInfo software database. Received 15 Samsung Galaxy tabs for electronic data collection for future facility assessments. Developed an EpiInfo android data collection training for the partner. Developed a revised weekly data collection tool on the tablets to focus on facility triage performance and PPE stock inventory continuity to allow for quicker interventions
- Assisted on IPC site visits to non-Ebola Treatment Unit hospitals where healthcare workers became infected due to direct patient care of suspected/confirmed Ebola patients

Data Team – State Coordination Task Force

CDC Domestic Ebola Response, Active Monitoring Unit

December 2014 – February 2015

Atlanta, GA

- Liaised with state, local, and federal agencies for active monitoring surveillance of 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

International Experience & Technical Assistance Fellow

CDC - Nigeria, Strategic Information & Health Systems Strengthening Unit

September – November 2014

Abuja, Nigeria

- Assisted in the implementation of the new President's Emergency Plan For AIDS Relief (PEPFAR) site improvement and monitoring system (SIMS) and other quality improvement projects such as Nigeria QUAL
- Worked with the PEPFAR Country team and CDC technical staff to ensure that PMTCT, ART, and HCT data were readily available and reported at the state level
- Conducted site visits to monitor site capacity at health centers and community based organizations. The assessment covered HIV/AIDS Care and Treatment including TB/HIV, HIV/AIDS Prevention including PMTCT and HTC, Laboratory services, OVC and Site Management

GIS Logistician

CDC – Haiti Emergency Response

January 2011

Port-au-Prince, Haiti

- Worked closely 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
- Worked on the CDC Haiti Logistics Team to identify and maintain the cholera treatment supply/distribution chain following multinational donor draw down of efforts

SKILLS

Computer Skills: *Proficient in:* Microsoft Office · Windows XP, 7, 8, and 10 · Mac OS · Excel · Power Point · Outlook · SAS · SPSS · R · ArcGIS · QGIS

Language: Intermediate skills in Haitian Creole · Basic skills in French

PUBLICATIONS

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. *MMWR Morb Mortal Wkly Rep.* 2015 Jul 3;64(25):685-9.

Lulla V, Stanforth A, **Prudent N**, Johnson D, Lubber 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, Lubber 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, Lubber 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

Lubber G, **Prudent N**. Climate change and human health. *Trans Am Clin Climatol Assoc.* 2009;120:113-7. Review.

Prudent N, Houghton A, Stewart J, Petersen A, Thompson R, Byrne M, Lubber 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.

Masters Thesis: **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. Mar 2008. Emory University: Rollins School of Public Health.