

RASHIDA CALLENDER

Baltimore, MD | 281-913-9364 | rcallen3@jh.edu

EDUCATION

PhD in Environmental Health and Engineering
Johns Hopkins Bloomberg School of Public Health
Advisor: Jaime Madrigano, ScD

Expected May 2028
Baltimore, MD

Master of Public Health in Biostatistics
UTHealth Houston School of Public Health

December 2017
Houston, TX

Bachelor of Science in Chemistry
Massachusetts Institute of Technology

February 2012
Cambridge, MA

RESEARCH & PROFESSIONAL EXPERIENCE

PhD Student
Johns Hopkins Bloomberg School of Public Health

August 2023 - Present
Baltimore, MD

- Executing novel research to evaluate measures of community and individual resilience and their relationship to mental health outcomes among disaster-exposed residents of the U.S. Gulf Coast; collaborating with the Gulf Long-term Follow-up Study (GuLF STUDY) of the National Institute of Environmental Health Sciences (NIEHS)
- Developed statistical models to examine associations between historical redlining and Hurricane Harvey-related exposures and outcomes; presented findings at the 2024 SER Conference
- Served as a teaching assistant for The Global Environment, Climate Change, and Public Health and Climate Change and Public Health course. Organized course materials and website, provided technical support to facilitate hybrid learning, addressed student questions and concerns in class and via email and discussion forums, graded assignments and evaluated comprehension of climate and health topics

Research Associate
Rice University, Children's Environmental Health Initiative

July 2018 – August 2023
Houston, TX

- Served as project manager for major research initiatives collecting health, location, and exposure information from people affected by public health disasters, including Hurricane Harvey and the COVID-19 pandemic
- Developed strategic and operational goals with input from study leaders and delegated responsibilities to team members. Led weekly meetings to monitor progress of work and provide updates to study leaders
- Developed survey instruments with input from study leaders and collaborators at health and emergency management organizations
- Wrote and maintained IRB protocols. Contributed to successful funding proposals and prepared progress reports for funding agencies

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- Achieved enrollment of over 20,000 registrants through data-driven outreach strategies, including partnership development, local and national media engagement, in-person event recruitment, and social media marketing
- Generated summary statistics and constructed statistical models to examine the relationship between disaster-related exposures and outcomes. Published results in public reports and manuscripts.
- Provided statistical support to Childhood Lead Poisoning Prevention Programs at Houston and North Carolina health departments

Assistant Epidemiologist I

September 2016 – July 2018

MD Anderson Cancer Center, Department of Epidemiology

Houston, TX

- Constructed and maintained databases and data dictionaries for research studies
- Collaborated with faculty and research staff to develop research questions and analysis plans
- Created and implemented detailed scripts for data cleaning, manipulation, and analysis
- Developed statistical models to assess health outcomes in cancer cohort studies. Disseminated results in internal reports.

Research Coordinator

July 2014 – September 2016

MD Anderson Cancer Center, Department of Epidemiology

Houston, TX

- Developed and maintained IRB protocols and study manuals for department biobanks
- Prepared recruitment materials and informed consent documents. Collaborated with team members to screen and recruit study subjects and obtain informed consent
- Processed and stored blood samples, abstracted clinical information from medical records, maintained study databases, deployed health-related quality of life surveys
- Trained staff and student trainees on the process of obtaining informed consent and data collection
- Prepared code for reports tracking study progress and characteristics of the study population

Research Assistant

October 2012 – July 2014

McGovern Medical School at UTHealth, Department of Anesthesiology

Houston, TX

- Screened and recruited research participants for clinical studies
- Collected data and performed data entry

PUBLICATIONS

Callender R, Ensor KB, Miranda ML. The Weight of the Storm: Using Weighting Methods to Determine the Effect of Hurricane Harvey on Mental Health Outcomes in Harris County, Texas. *Public Health Rep*. Published online January 17, 2026. PMID: 39412324

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Soale AN, **Callender R**, Guignet D, Shadbegian R, Miranda ML. Association between Residential Distance to Airport and Blood Lead Levels in Children under 6 Living in North Carolina, 1992-2015. *Environ Health Perspect.* 2024;132(8):87701. PMID: 39120950

Callender R, Tootoo J, Miranda ML. Using Geospatial Methods in Childhood Lead Poisoning Prevention Programs. *Rev Environ Econ Policy.* 2024;18(2):279-300.

Callender R, Avendano C, Bravo MA, Tootoo J, Norman E, Miranda ML. Identifying High-Risk ZIP Codes for Childhood Lead Exposure: A Statewide ZCTA-Level Priority List for North Carolina. *N C Med J.* 2024;85(2):143-149. PMID: 39412324

Ramesh B, **Callender R**, Zaitchik BF, Jagger M, Swarup S, Gohlke JM. Adverse Health Outcomes Following Hurricane Harvey: A Comparison of Remotely-Sensed and Self-Reported Flood Exposure Estimates. *Geohealth.* 2023;7(4):e2022GH000710. Published 2023 Apr 21. PMID: 37091294

Callender R, Canales JM, Avendano C, Craft E, Ensor KB, Miranda ML. Economic and mental health impacts of multiple adverse events: Hurricane Harvey, other flooding events, and the COVID-19 pandemic. *Environ Res.* 2022;214(Pt 3):114020. PMID: 35948147

Miranda ML, **Callender R**, Canales JM, et al. The Texas flood registry: a flexible tool for environmental and public health practitioners and researchers. *J Expo Sci Environ Epidemiol.* 2021;31(5):823-831. PMID: 34175888

PRESENTATIONS

Callender R. Mental health impacts of flooding in Southeast Texas. *Everything's Bigger in Texas, Including Opportunities to Advance Health Equity* [Symposium Presentation]. SER Conference, Austin, TX, June 21, 2024.

Callender R, Calvo-Hernandez, C, Ensor, KB, Miranda, ML, Madrigano, J. Associations between historical redlining and climate-related exposures in the Texas Flood Registry [Poster Presentation]. SER Conference, Austin, TX, June 20, 2024.

Callender R. Insights on flood risk in Northeast Houston from the Texas Flood Registry. *Bridging Diverse Knowledge Systems to Address Flood Risk in Northeast Houston Communities* [Workshop Presentation]. National Academies of Science, Engineering, & Medicine Gulf Research Program, Houston, TX, April 27, 2023.