ORGANIZATION ROLE
Geographer / Project Manager

PROJECT ROLE / FOCUS AREAS
Resilience adaptation

Project management

Integration of social, cultural, and environmental

Disaster response and mitigation

Cultural resource management

EDUCATION
Ph.D., Geography, Louisiana State University, 2018

MS, Geography, Louisiana State University, 2014

BS, History and Archaeology, Hood College, 2007

PROFESSIONAL MEMBERSHIP
American Association of Geographers

Louisiana Floodplain Managers Association

Louisiana Emergency Management Association

AUDREY GRISMORE, PH.D.

Geographer, Project Manager

Audrey Grismore, Ph.D., specializes in collecting and synthesizing a wide range of material to triangulate the responses communities have to disruptive events and how these responses interact at the local, state, and federal level. In addition to her academic experience, Audrey has extensive experience working in long-term recovery in Mississippi, Louisiana, Texas, and New Jersey prior to returning to graduate school.

Prior to joining The Water Institute, Audrey spent three years as an environmental historic preservation (EHP) professional with the Federal Emergency Management Agency (FEMA) Louisiana Recovery office (LIRO). In this capacity, Audrey reviewed environmental and historic preservation compliance for hazard, flood and pre-disaster mitigation projects, public assistance projects and individual assistance projects; regularly managed numerous project reviews, was a technical expert for LIRO's EHP ArcGIS mapping and spatial data analysis needs, and refined Orleans Parish Archaeology Probability Map using statistical classifications including variables of historical maps, soils, geology, elevation, and distance from known sites.

Audrey was also involved in disaster recovery projects resulting from Hurricane Laura in 2020, Hurricane Barry, numerous flooding events, tornados, and other extreme weather events across the Gulf coast.

Before going to graduate school, Audrey was a cultural resources field manager for URS Corporation working on the Mississippi Development Authority Housing Recovery HUD-CDBG Projects. Prior to taking on this role, Audrey was an archaeologist and field lab manager for various URS company projects.

PROFESSIONAL EXPERIENCE

2021–Present: Program Manager, Geographer, The Water Institute

2017–2021: Environmental Protection Professional, Federal Emergency Management Agency

2012–2018: Graduate Research Assistant, Louisiana State University

2010–2012: Cultural Resources Field Manager, URS Corporation

2008–2010: Archaeologist, URS Corporation

SELECTED PROJECTS

FEMA Cooperating Technical Partners. *FEMA (Ongoing).* Project Manager; Principal Investigator. Coordinate the planning and management activities required by State CTPs in support of Risk MAP program implementation throughout FEMA Region 6. Activities performed by the Institute under the CTP program include the creation and annual updates of the Institute's CTP 5-year Business Plan, implementation of flood risk mapping through watershed discovery projects, special communication projects, and creation of training materials for university engineering students and local engineering practitioners.

LOUISIANA FLOOD FORECAST SYSTEM. *Louisiana Coastal Protection and Restoration Authority and Louisiana Trustee. (Ongoing).* Project Coordinator. Real-time Forecasting Software System - Develop Joint Compound Flood Alert System for the state of Louisiana. Coordinate the joint development by meteorologists, coastal hydrologists, and inland watershed hydrologists to forecast coastal and compound flooding for pre-, during, and post-storm conditions. Coordinate the co-creation of decision support tools based on guidance from emergency managers to align with Governor's Office of Homeland Security and Emergency Preparedness and other state agency's emergency support functions.

Developing Equitable Outcomes to Climate Hazards and Other Disasters. *National Academies of Sciences, Engineering, and Medicine, Gulf Research Program (2021–2024).* Project Coordinator; Investigator. Facilitate scenario-building workshops with residents of four coastal communities in Louisiana to explore the potential sociocultural and economic impacts of nonstructural mitigation at the household and community levels. Conduct qualitative data analysis to inform a customized resilience index and decision support tool for use by participating communities.

Economic and Policy Research for the Lower Mississippi River SmartPort and Resilience Center. *U.S. Department of Commerce Economic Development Agency. (2021–2024).* Principal Investigator Resilience Plans. Assess potential hazards, threats, and disruptions impacting operations at Louisiana ports to assist in the creation of the Lower Mississippi River Comprehensive Resilience Index and resilience dashboards for each port, which enable leadership to visualize, prioritize, and track progress in implementing their resilience action plans.

Advancing the Goals of SECAS: A Program to Improve SECAS Blueprint Utility in the Gulf of Mexico Water Institute of the Gulf, US Fish and Wildlife Institute. *The Water Institute. (2021).* Geographer. This project is to advance the management applicability and use of the SECAS blueprint in prioritizing, executing, and assessing conservation and restoration projects in the northern Gulf of Mexico (GOM) and surrounding watersheds. Specific roles on this project include 1) principal component analysis in R for social vulnerability index; and 2) geographic system support for stressor and threat index.

SELECTED PUBLICATIONS

1. Hemmerling SA, Haertling A, Shao W, Di Leonardo D, Grismore A and Dausman A (2024) "You turn the tap on, the water's there, and you just think everything's fine": a mixed methods approach to understanding public perceptions of groundwater management in Baton Rouge, Louisiana, USA. Front. Water 6:1289400.
2. Hemmerling, S. A., DeMyers, C., Parfait, J., Piñero, E., Baustian, M. M., Bregman, M., Di Leonardo, D., Esposito, C., Georgiou, I. Y., Grismore, A., Jung, H., McMann, B., & Miner, M. D. (2023). A community-informed transdisciplinary approach to coastal restoration planning: Maximizing the social and ecological co-benefits of wetland creation in Port Fourchon, Louisiana, USA. *Frontiers in Environmental Science*, *11*.
3. Kiskaddon, E., Bienn, H., Hemmerling, S. A., Dalyander, S., Grismore, A., Parfait, J., Miner, M. D., Cameron, C., Hopkins, T. E., Allen, Y., Jones-Farrand, D., Martin, M., Tirpak, B. E., Green, M., Rhinehart, K., & Carruthers, T. JB. (2022). Supporting habitat restoration in the northern Gulf of Mexico through synthesis of data on multiple and interacting benefits and stressors. *Journal of Environmental Management*, *318*, 115589.
4. Mathewson, K., Allen, A., Grismore, A., Lagos, M., Simms, J., & Spencer, B. (2020). The Sauer tree in time and place. *Journal of Latin America Geography*, *19*(1), 84–97.