Joseph Hankerson, MS
Geoscientist
The Water Institute
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EDUCATION

University of New Orleans	New Orleans, LA	Geomorphology	MS, 2022
University of New Orleans	New Orleans, LA	Geosciences	BS, 2018

RESEARCH INTERESTS

Sediment inventory analysis and coastal geomorphology, vibracoring to explore shallow stratigraphy, mapping of sand resources for coastal restoration and geomorphology.

PROFESSIONAL EXPERIENCE

The Water Institute	Geoscientist	2022–Present
	Geoscientist Intern	2021–2022
University of New Orleans, Earth and Environmental Sciences Department	Graduate Teaching Assistant	2018–2022
University of New Orleans	College of Sciences, Undergraduate Research Position, Coastal Research Laboratory	2019
	Biodiversity Teaching Assistant	2016
	Human Resource Management Student Worker	2015–2016

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Geophysical Union

AWARDS AND HONORS

- Homer L. Hitt Scholar, University of New Orleans, 2014–2018
- Sigma Gamma Epsilon, 2016–2022
- Glenn Hebert Petroleum and Geology Scholarship (Undergraduate and Graduate Award)

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of New Orleans, Earth and Environmental Sciences Department, 2018–2022. Biodiversity Teaching Assistant, University of New Orleans, 2016.

COMMUNITY SERVICE

Hurricane Ida Relief work	The Water Institute	2021

TRAINING COURSES

- Boat Training, 2018-2022
- Protected Species Observer, 2022
- Structured Decision Making, 2023
- SonarWiz, 2022

NOTABLE PROJECTS

Master's Thesis/Facies Analysis of Terrebonne Basin Using Vibracores and CHIRP Seismic Data 2022
University of New Orleans
CHIRP seismic data and vibracores were collected in Terrebonne Basin. Data was collected in three study areas: Upper Madison Bay, Lower Madison Bay, and Lake Boudreaux. Results from core descriptions were used to create cross sections of the study areas according to described delta facies encountered.

Geologist/Louisiana Sediment Management Program Current
Coastal Protection and Restoration
Interpretation of historical CHIRP and vibracore data as well as new data collection for the identification and characterization of sand resources in coastal Louisiana (Barataria Bight, Barataria Basin, Terrebonne Basin). High detail core descriptions are used to aid in the interpretation of CHIRP data as well as plotting where sand resources are located within the region and what systems or processes connect them.

Geologist/MMiS 2021–2022
Bureau of Ocean Energy Management
Reformatting historical core datasets into MMiS to update the database as well as making the datasets compatible with the NGSAAP Tool set. When formatted, the toolset can be used on the datasets to select cores with an array of qualifiers (grain size, depth, proximity to project, etc.) and could create polygons from the cores that are representative of sand resource bodies.

PUBLISHED WORKS

Peer-Reviewed Publications

Hankerson, J. (2022). *Facies analysis of Terrebonne basin using vibracores and CHIRP seismic data* [Master of Science]. University of New Orleans.

Technical Reports

Di Leonardo, D. R., Vollmer, H., Dong, Z., Hankerson, J., Forrest, B., & Miner, M. (2022). *Northern Gulf Sediment Availability and Allocation Program (NGSAAP): Development and programmatic application of a sediment resource analysis tool* (Northern Gulf Sediment Availability and Allocation Program, p. 164). The Water Institute of the Gulf. Prepared for and funded by the Gulf of Mexico Alliance.

Conference Proceedings and Presentations

Coleman, W., Hankerson, J., Hollis, R., Khalil, S., Beltran-Brugos, M., Swartz, J., Cameron, B., Mallindine, J., & Miner, M. (2024). Distributary channel characterization utility to sediment resources in deltaic environments: Barataria Basin, Louisiana. *2024 Ocean Sciences Meeting*. American Geophysical Union.

Hankerson, J., Hollis, R., Khalil, S., Coleman, W., Beltran-Burgos, M., Swartz, J., Cameron, B., Mallindine, J., & Miner, M. (2024). Uncovering a preserved coastline in southern Louisiana: Implications for sand resources and deltaic evolution. *2024 Ocean Sciences Meeting*. American Geophysical Union.

Hollis, R., Swartz, J., Khalil, S., Hankerson, J., Coleman, W., Beltran-Burgos, M., Cameron, B., Mallindine, J., & Miner, M. (2024). Preserved deltaic sand bodies offshore Louisiana as sediment resources. *2024 Ocean Sciences Meeting*. American Geophysical Union.