



## WILKE COLEMAN

### *Research Assistant, Applied Geosciences*

Wilke Coleman is pursuing an MS in Earth & Environmental Sciences at the University of New Orleans. His graduate research focuses on refining the Mississippi River delta lobe chronology within Barataria Basin. This work will provide insight to the region's geomorphic evolution and identify sand-rich deposits that can be developed as resources for coastal restoration projects.

#### **ORGANIZATION ROLE**

Research Assistant

#### **PROJECT ROLE / FOCUS AREAS**

Coastal  
geomorphology

Sand resource  
identification

Shallow deltaic  
stratigraphy

Sediment management

#### **EDUCATION**

MS, Earth &  
Environmental  
Sciences, University of  
New Orleans,  
expected completion  
end of 2023

BS, with Earth &  
Environmental  
Sciences Minor, 2020

#### **PROFESSIONAL MEMBERSHIPS**

American Geophysical  
Union

Geological Society of  
America

Wilke has been working on the Louisiana Sediment Management Plan as part of The Water Institute's collaboration with the Louisiana Coastal Protection and Restoration Authority. This effort utilizes a modern suite of geophysical and sediment core data to determine the spatial extent and physical characteristics of sediment resources within the Mississippi River delta plain and proximal continental shelf. This work will enhance knowledge surrounding the genesis of the Mississippi River delta plain and reveal the location of additional sand and sediment resources suitable for coastal restoration.

Wilke brings his knowledge of coastal geomorphology to aid in the development, implementation, and monitoring of coastal restoration strategies in southeastern Louisiana and beyond.

#### **PROFESSIONAL EXPERIENCE**

2023–Present: Research Assistant, Applied Geosciences Research Internship,  
The Water Institute

2021–2024: Teaching Assistant & Research Associate, University of New Orleans



## SELECTED PROJECTS

**Louisiana Sediment Management Plan.** *The Water Institute, Louisiana Coastal Protection and Restoration Authority. (2022–Present).* Correlation of sediment core and geophysical data acquired from southeastern Louisiana’s deltaic plain and proximal continental shelf. Interpretation of lithofacies and respective characteristics to assess the spatial extent and volume of sediment resources suitable for future restoration efforts.

**Reconnaissance Geophysical Sand Search Survey on Sabine Bank, Texas.** *University of New Orleans, Ocean Surveys, Inc. (May 2022–August 2022).* Physical analysis of vibracores acquired proximal to Sabine Bank, TX. Evaluation of sediment characteristics with supplementary grain size analysis. Results aid in determining sediment resource allocation suitable for renourishment efforts.