

# Zhenwei Wu

Baton Rouge, Louisiana | [zwu22@lsu.edu](mailto:zwu22@lsu.edu) | 646-392-45-89 | [www.lsu.edu/eng/cee/index.php](http://www.lsu.edu/eng/cee/index.php)

[linkedin.com/in/zhenwei-wu](https://www.linkedin.com/in/zhenwei-wu) | [github.com/punchvic](https://github.com/punchvic)

## Education

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**Louisiana State University**, MS in Watershed Hydrology Sept 2021 – Dec 2023

- **Thesis:** Metal Transport in the Mixing Zone of an Estuarine River to the Northern Gulf of Mexico
- Graduate Student Association Travel Award

**China University of Geosciences**, BS in Marine Science Sept 2016 – Jun 2020

- Scholarship of Elite Program (3000RMB), First Prize of Scientific and Technological Paper Reporting Conference, Excellent Student Award

## Experience

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**Research Assistant**, Louisiana State University - Baton Rouge, LA Aug 2021 – Aug 2023

- Monthly trips to the Mississippi River and Atchafalaya River to measure dissolved oxygen (DO), salinity, pH, water temperature, conductivity, and turbidity
- Took samples of river water and brought them back to the lab to test for levels of dozens of heavy metals

**Member of Course Field Trip**, Louisiana State University - Baton Rouge, LA Feb 2023 – Apr 2023

- The two field trips went to Wax Lake Delta (Morgan City, LA) and Elmers Island (Grand Isle, LA) to collect sediment samples to infer changes in the depositional environment

**Member of Joint Marine Ecological Survey Project in East China Sea**, China July 2019 – Aug 2019  
University of Geosciences - Zhoushan, China

- Composition and Predictive Functional Analysis of Bacterial Communities in the Changjiang Estuary and the East China Sea

**Participant of Field Practice**, Durham University - Durham, UK Mar 2019 – Apr 2019

- Learned foundational fieldwork skills by observing outcrops of different banks in various spots and analyzed the lithological characteristics and sedimentary environment
- Drew geological maps and identified different formation of the Lake District

**Participant of Field Practice**, China University of Geosciences- Sanxia, China July 2018 – Aug 2018

- Observed lithological changes and ascertained the sedimentary environment and climate from specific biological fossils, such as sponge spicule and algae
- Analyzed the tectonic evolution process of this area in the geological historical period

**Participant of Field Practice**, China University of Geosciences- Beidaihe, China July 2017 – Aug 2017

- Observed different lithology and tectonic phenomena to determine stratigraphic age
- Observed different deposits to infer three main periods of sea level eustacy during the Upper Paleozoic in Huabei

## Publications

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**Metal Transport in the Mixing Zone of an Estuarine River to the Northern Gulf of Mexico** Jun 2023

Zhenwei Wu, Songjie He, Yijun Xu

## Technologies

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Software skills in ArcGIS, Image J, statistic with R