Haotian Cai

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RESEARCH INTERESTS

Drinking water disinfection byproducts. Analytical chemistry.

EDUCATION

 Ph.D. University of Southern California, CA Major: Environmental Engineering 	In Progress
 Master of Science Northwestern University, IL Major: Civil and Environmental Engineering 	2021
 Bachelor of Science Colorado State University, CO Major: Environmental Health 	2019
 Bachelor of Science Anhui University, China Major: Environmental Science 	2019

PUBLICATION

• Fu, H., **Cai, H.**, & Gray, K. A. (2023). Metal oxide encapsulated by 3D graphene oxide creates a nanocomposite with enhanced organic adsorption in aqueous solution. Journal of Hazardous Materials, 444, 130340.

ACADEMIC ACTIVITIES

MASTER'S THESIS

JAN. 2020 - DEC. 2020

- Research about environmental application of Core (Metal Oxide) Shell (Graphene Oxide) Composite. Manufactured and characterized the new materials and tested the environmental performance.
- WATER ENVIRONMENT FEDERATION STUDENT DESIGN COMPETITION SEPT. 2020
- Designed novel wastewater treatment system. Team up and finished the Water Environmental Federation Student Design Competition. This design is the third-place winner.
- ILLINOIS WATER ENVIRONMENT ASSOCIATION STUDENT DESIGN COMPETITION

MAR. 2020 - APR. 2020

- · Team up and designed novel wastewater treatment system. This design was the first-place winner.
- RESEARCH INTERNSHIP

DEC. 2018 - JAN 2019

· Research on mercury distribution in a frozen lake, Wuliangsuhai Lake, China. Sampled and tested water quality in this lake. This internship is completed with Inner Mongolia Agricultural University

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