

Seminar by, Dr. Jida Wang

Associate Professor,
Dept. of Geography and Geospatial Sciences,
Kansas State University, Manhattan, KS

Lake abundance, dynamics, and mechanisms in the Anthropocene



Abstract: Lakes store the largest amount of liquid water on the continental surface. They are ubiquitous across many watersheds, providing critical water resources for the ecosystem and human societies. Although often considered as a type of water storage, lakes are an integral component of the drainage system. They interact with rivers, groundwater, the cryosphere, and the atmosphere, and are highly dynamic as "sentinels" of climate and environmental changes. Many of the global lakes are actually manmade reservoirs, which regulate natural streamflow and alter the pattern of the terrestrial water storage as a whole. This lecture will offer a succinct but comprehensive review of some of the recent progresses in lake science, ranging from our understandings of lake abundance (how many are they), dynamics (how are they changing), mechanisms (why are they changing), and implications (what do the changes imply).

Biosketch: Dr. Jida Wang is a broadly-trained physical geographer and hydrologist. His work focuses on surface water abundance and dynamics, particularly in lakes, reservoirs, and wetlands. He studies how these water stores function as sentinels, regulators, and integrators of climate change, and how lakes of different types interact with the cryosphere, the river systems, the carbon cycle, and human water managements. He conducts such studies through applications and innovations of integrated methods, which combine multi-sensor satellite remote sensing, in situ measurements, and hydrological modeling. Dr. Wang has published more than 50 peer-reviewed papers and book chapters. His research findings and expert opinions appeared in numerous media outlets and reports, and he was the 2019 Early Career awardee in the Remote Sensing Special Group of the American Association of Geographers. Dr. Wang teaches classes in physical geography and Earth observing remote sensing. He was one of the five recipients of the 2013 University Distinguished Teaching Assistant at UCLA and was the awardee of the 2020 William L. Stamey Teaching Award at KSU.

Date: Friday September 9th, 2022

Time: 4:00 – 4:50 PM

Zoom Meeting ID: 946 2747 0306



Institute for Water Research,
Sustainability and Policy

The University of Texas at San Antonio

The University of Texas at San Antonio

UTSA Earth and Planetary Sciences
College of Sciences