



LSGI & RILS RESEARCH SEMINAR

Understanding Geographic Environmental Change and Human Behavioral Responses Through Big Data Analytics

 **13 APR 2026 (MON)**

 **2:00 PM - 3:00 PM**

 **Z414, POLYU**

 **ENGLISH**

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ABSTRACT

By integrating natural observations from Earth big data with socially sensed data on human behavior, researchers can better characterize geographic space, understand the interactions between environmental change and human activities, and improve the simulation and prediction of coupled human–environment systems. This talk introduces intelligent analytical methods for studying human–environment interactions from a geographic information science perspective, summarizes general causal inference strategies, and presents case studies on climate change, air pollution, wildfire disasters. The findings help reveal how human behavior both affects and adapts to environmental change.

BIOGRAPHY

Prof. Jianghao WANG is a Professor at the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, and Deputy Director of the State Key Laboratory of Resources and Environmental Information System (LREIS). His research focuses on geographic big data, human behavior, and geospatial intelligent systems. He has led several major national research projects and has published over 100 SCI/SSCI papers in journals such as Nature Human Behaviour, Science Advances, Nature Cities, and One Earth. He serves as Associate Editor of Transactions in Urban Data, Science, and Technology and holds leadership roles in professional academic societies in China. His research has been widely applied in sustainable development assessment and disaster emergency response.

Moderator:

Prof. Xintao LIU, Associate Professor, LSGI, member of RILS

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