RESEARCH SEMINAR

DEPARTMENT OF GEOGRAPHY & RESOURCE MANAGEMENT
THE CHINESE UNIVERSITY OF HONG KONG

Leveraging Geospatial Big Data and GeoAI for Healthy Cities

18th September 2025 (Thu)
4:30 – 6:00 pm (UTC+8)
Rm 109, Chen Kou Bun Building, CUHK

The urban environment profoundly shapes human experiences, influences daily activities, and impacts health and well-being. In the evolving landscape of healthy cities, rapid urbanization and climate change bring about multifaceted challenges, including resource management, environmental hazards, public health risks, and social inequalities. Addressing these challenges requires innovative, data-driven solutions that integrate advanced technologies with urban governance. Understanding human-environment interactions is increasingly vital for designing healthy cities that are not only sustainable and equitable but also resilient to future environmental challenges. Advances in geospatial technologies, such as multi-source geospatial big data and GeoAI, provide powerful tools to analyze and visualize the dynamic relationships between urban environments, human activities, and health outcomes. This talk will present my recent studies showcasing the use of cutting-edge geospatial methods to unravel these complex interactions. The findings demonstrate how geospatial information science and technology can optimize healthy city planning, enhance environmental sustainability, and reduce inequalities, ultimately fostering healthier, more adaptive, and inclusive urban communities.

Yimeng Song
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Dr. Yimeng Song is currently an Assistant Professor at HKU. Before joining HKU, he gained extensive academic and professional experience at institutions in Hong Kong and the United States. Dr. Song's work integrates geospatial big data with advanced computational methods to explore key topics such as population dynamic, environmental exposure, and environmental health. He is a member of the inaugural cohort of GeoCAFE Scholars and has been recognized for his academic contributions, including being named to the World's Top 2% Scientists list by Stanford University and Elsevier.

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