RESEARCH SEMINAR

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

Human-centered Geospatial Data Science

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In recent years, Geospatial Data Science – the use of geographic knowledge and AI approaches to extract meaningful insights from large-scale geographic data – has achieved remarkable success in spatial knowledge discovery and reasoning, and geographic phenomena modeling. However, two challenges remain in geospatial data science: (1) geographic phenomena are always treated as functions of a set of physical settings, but human experience has received insufficient attention; (2) there are limited strategies to focus on and address geoethical issues. In this talk, Mr. Kang will present a series of works that utilized geospatial data science to understand human experience and sense of place. In particular, using large-scale street view images, social media data, human mobility data, and advanced GeoAI approaches, he measured and analyzed human subjective perceptions (e.g., whether a neighborhood is perceived as a safe, lively, and beautiful place), and emotions (e.g., happiness) at places, as well as human-environment relationships. Also, his work paid attention on geoethical issues such as monitoring bias and protecting geoprivacy. Additionally, he will illustrate the applications of geospatial data science to solve a series of practical problems such as public health and racial justice. Finally, he will share his multifaceted experiences in GIScience education.

Mr. Yuhao Kang
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Research Affiliate, MIT Senseable City Lab

Yuhao Kang is a Ph.D. Candidate in GIScience at the University of Wisconsin-Madison, and also a research affiliate at the MIT Senseable City Lab. He got a bachelor's degree from Wuhan University. He had working experience at Google X, MoBike, and Peking University. His research focuses on developing human-centered GeoAI algorithms in GIScience to support geospatial big data analytics and decision-making in the urban environment. He has published over 40 peer-reviewed academic articles with over 1,400 citations. He was the recipient for several fellowships and best paper awards. Additionally, he founded the non-profit project GISphere that facilitates global GIS educations.

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