

## RESEARCH SEMINAR

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

### Understanding social segregation – A new computational framework, and we find in both physical and social network spaces

6 Oct 2022 (Thurs)  
4:30–6:00 pm (UTC+8)

ZOOM ID: 924 0168 0034  
ZOOM Passcode: 891568

An intriguing question about cities is how effectively they bring together different social classes. In the past, the research has mainly focused on residential segregation, a somewhat static view of the physical separation of social groups. In this work, we introduce a computational framework – by coupling large-scale information on human mobility, social-network connections, and people’s socio-economic status (SES) – to enable a new way of understanding social segregation in cities. We argue that segregation needs to be tracked more dynamically: across the urban environment and not just at home; through time and not just space; and by monitoring its presence in social space not just physical space.

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Dr. Yang Xu is an assistant professor in the Department of Land Surveying and Geo-Informatics at the Hong Kong Polytechnic University, where he directs the program of “Master of Science in Urban Informatics and Smart Cities”. His research combines geospatial big data, computational methods and GIScience theories to advance understanding, modeling, and prediction of human activities in urban contexts (<https://yangxu-git.github.io>).



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