

RESEARCH SEMINAR

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

Bikesharing and equity: A nationwide study of bikesharing accessibility in the U.S.

16 Aug 2023 (Wed)
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Bikesharing has gained global popularity as a sustainable and healthy mobility option in recent years. However, concerns have been raised about the unequal distribution of bikesharing benefits among different geographic areas and social groups. This seminar will present a recent study, which assesses bikesharing equity at the census block group level in 73 U.S. cities as of July 2022, utilizing the generalized additive mixed model (GAMM). Our findings indicate that the equity of bikesharing accessibility varies depending on the indicators used to identify disadvantaged communities. We find that bikesharing is equitable for zero-vehicle communities, as they experience higher levels of accessibility. However, for communities characterized by high levels of deprivation and a significant concentration of minorities, females, youth, and senior populations, bikesharing is inequitable, as these disadvantaged communities have limited access to bikesharing stations compared to their more privileged counterparts. These results provide significant implications for equitable bikesharing planning.

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Ting Jin is an urban and transport geographer specializing in GIS and big data analysis. She has an interdisciplinary background in Urban and Human Geography, GIS & Spatial Analysis, and Tourism Management. Her research interest centers on an overarching question: how will technological advancements change the future of our society? Her current work focuses on shared mobility (i.e., ridesharing, bikesharing, e-scooter sharing), platform work, and urban China.



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