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Research Area: Urban A.I., Network Analytics



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Winston is a PhD candidate at the NUS Urban Analytics Lab. Prior to his candidature, he worked as research associate at the Lee Kuan Yew Centre for Innovative Cities where he conducted citizen urban science in the context of Southeast Asian Megacities. His research focuses on urban machine learning, complex urban systems, and network-based analytics. Through his research, he aims to understand how planning technologies can help to support evidence-based planning and design. He is an active member of the urban research community and has reviewed for the following journals: International Journal of Geographical Information Science, Transportation Research Part D, Journal of Open Source Software, and Geoforum.

Selected publications:

Yap, W., Janssen, P., & Biljecki, F. (2022). Free and open source urbanism: software for urban planning practice. *Computers, Environment and Urban Systems*, 96, 101825.
<https://doi.org/10.1016/j.compenvurbsys.2022.101825>

Yap, W., Chang, J.H., & Biljecki, F. (2022). Incorporating networks in semantic understanding of streetscapes: Contextualising active mobility decisions. *Environment and Planning B: Urban Analytics and City Science*, 239980832138832.
<https://doi.org/10.1177/23998083221138832>

Yap, W., Stouffs, R., & Biljecki, F. (Under-review). Urbanity: Automated Modeling and Analysis of Multidimensional Networks in Cities. *npj Urban Sustainability, Nature*.

Chan, H.C., & Yap, W. (Forthcoming). Making public housing work: The Singapore case. Council of Urban Initiatives. UN-Habitat, UCLIPP and LSE Cities.