

HU, Lirong

Start date: 9/1/2021

Supervisor: Professor Shenjing He

Research interest: Lirong's research interests focus on the geo-big data analysis of urban applications and social infrastructure for equity and wellbeing, specifically lie at (1) housing market segmentation and housing price/rent mechanism in housing economics; (2) capitalization effect of public services (e.g., education, landscape amenities, and TOD) in housing prices/ rents under the "new economics of equilibrium sorting" framework; (3) accessibility measurement and socio-spatial inequality. During the next four years of her Ph.D., she will pay more attention to education-led gentrification, housing differentiation, and entrepreneurial urbanism as well as the innovation in methodology by integrating quantitative and qualitative methods.

Teaching and research experience: Research assistant | University of Hong Kong Shenzhen Institute of Research and Innovation | advisor: Professor Shenjing He | the mechanism of low-income housing development and its integrated effects in urban China | 08/2020-08/2021

Project student leader | Urbanization Research Laboratory of Wuhan University | advisor: Professor Shiliang Su | Evaluation on the implementation of land spatial planning in Guangxi, Hangzhou, Qingdao, Tianjin, and Xiaoshan | 09/2018-06/2021

Key publication: Hu, L., He, S., Han, Z., Xiao, H., Su, S., Weng, M., & Cai, Z. (2019). Monitoring housing rental prices based on social media: An integrated approach of machine-learning algorithms and hedonic modeling to inform equitable housing policies. *Land Use Policy*, 82, 657-673 [ESI highly cited paper].

Hu, L., He, S., Luo, Y., Su, S., Xin, J., Weng, M. (2020). A social-media-based approach to assessing the effectiveness of equitable housing policy in mitigating education accessibility induced social inequalities in Shanghai, China. *Land Use Policy*, 94, 104513.

Hu, L., Zhao, C., Wang, M., Su, S., Weng, M., Wang, W. (2020). Dynamic healthy food accessibility in a rapidly urbanizing metropolitan area: Socioeconomic inequality and relative contribution of local factors. *Cities*, 105, 102819.

Su, S., He, S., Sun, C., Zhang, H., Hu, L., Kang, M. (2021). Do landscape amenities impact private housing rental prices? A hierarchical hedonic modeling approach based on semantic and sentimental analysis of online housing advertisements across five Chinese megacities. *Urban Forestry & Urban Greening*, 58, 126968.

Su, S., He, S., Zhang, H., Hu, L., Kang, M., Zhang, J. (2021). Unraveling the impact of TOD on housing rental prices and implications on spatial planning: A comparative analysis of five Chinese megacities. *Habitat International*, 107, 102309.

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