

Mushu Zhao

Ph. D. candidate
Department of Urban Planning and Design
The University of Hong Kong
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EDUCATION

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| 2021 – Now | Ph. D. candidate, Urban Planning and Design
The University of Hong Kong, Hong Kong SAR, China |
| 2019 – 2020 | MSc., Applied Geographic Information System
National University of Singapore, Singapore, Singapore |
| 2015 – 2019 | BSc., Geographic Information Science
Sun Yat-sen University, Guangzhou, China |

ACADEMIC EMPLOYMENT

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| 2024 | Part-time Senior Research Assistant, Department of Urban Planning and Design,
The University of Hong Kong |
| 2020 – 2021 | Full-time Research Assistant, Landscape Ecology Research Group, Guangzhou
Institute of Geography |
| 2019 | Part-time Research Assistant, Department of Geography, National University of
Singapore |

RESEARCH INTERESTS

Environmental Sustainability Associated with Urbanization and Transportation,
Transportation Electrification and Green Mobility Solutions,
Urban Heat Events: Impacts and Interactions with Public Transit and Active Travel,
Green Infrastructure and Environmental Justice

AWARDS AND HONORS

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| 2024 | Third Place Award, 2024 CPGIS Student Paper Competition, <i>The International Association of Chinese Professionals in Geographic Information Sciences</i> |
| 2023 | First Place Award, 2023 United Nations Datathon China Division, <i>the United Nations Statistics Division (UNSD), the United Nations Committee of Experts on Big Data and Data Science for Official Statistics (UN-CEBD)</i> |
| 2021 | HKU Foundation Postgraduate Fellowship, <i>The University of Hong Kong</i> |
| 2017-2018 | Third Place Award, Outstanding Student Scholarship, <i>Sun Yat-sen University</i> |

Publications

Refereed Journal Articles

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| 2025 | Zhao, M. , Wang, D. & Li, W. (2025). Idle Occupancy and Dead Piles: New Challenges in Public Charging Station Promotion. <i>Annals of GIS</i> , 1-14. |
| 2024 | Zhao, M. , Wang, D., Li, W., & Liu, J. (2024). Unraveling influencing factors of public charging station utilization. <i>Transportation Research Part D: Transport and Environment</i> , 137, 104506. |

- 2024 Hu, Y., **Zhao, M.**, & Zhao, Z. (2024). Uncovering heterogeneous effects of link-level street environment on e-bike and e-scooter usage. *Transportation Research Part D: Transport and Environment*, 136, 104477.
- 2020 Tran, P. T., **Zhao, M.**, Yamamoto, K., Minet, L., Nguyen, T., & Balasubramanian, R. (2020). Cyclists' personal exposure to traffic-related air pollution and its influence on bikeability. *Transportation Research Part D: Transport and Environment*, 88, 102563.

Manuscripts in Submission

- [1] **Zhao, M.**, Wang, D. & Li, W. Extreme Weather, Charging Rate and Moderating Effect of Station Shelters. under review
- [2] **Zhao, M.** & Li, W. Carbon Emission Reduction and Spill-over Effects of High-speed Rail: Empirical Analysis Based on Prefectural Cities in China. under review
- [3] **Zhao, M.**, Lei, S. & Li, W. Incorporating Urban Thermal Comfort into TOD Planning: Non-linear Heterogeneous Built Environment Effects. under review
- [4] **Zhao, M.**, Lei, S., Li, S. & Li, W. Disparities in the Impacts of Extreme Heat Events on Subway Ridership: Evidence from New York City
- [5] Lei, S., **Zhao, M.** & Zhou, J. Rethinking the X-minute City for Older Adults: Insights from Travel Survey through the Lens of Maslow's Hierarchy of Needs

PRESENTATIONS (†PRESENTING AUTHOR)

Papers Presented at Professional Meetings

- 2024 Zhao, M.†, Wang, D. & Li, W. Extreme Weather, Charging Rate and Moderating Effect of Station Shelters. ACSP2024, November 7-9, Seattle, WA
- 2024 Zhao, M.†, Wang, D. & Li, W. Idle Occupancy and Dead Piles: New Challenges in Public Charging Station Promotion. *The 31st International Conference on Geoinformatics*, August 14-16, Toronto, Canada
- 2024 Zhao, M.† & Li, W. Incorporating Urban Thermal Issues into TOD planning: Investigating the Non-linear Built Environment Effects on Pedestrian Heat Exposure. *The 18th International Association for China Planning (IACP) Conference*, July 5-7, Hangzhou, China

Poster Presentations

- 2023 Zhao, M.† & Li, W. Considering Urban Heat in Transit-oriented Development Planning: A Perspective of Station-level Heat Exposure in New York City Subway. *11th International Conference on Urban Climate*, August 28–September 1, Sydney, Australia

TEACHING

The University of Hong Kong

- 2023-2024 URBA 6011: Programming and Foundations in Urban Data Analysis (Master of Science in Urban Analytics Programme -Autumn 2023)
- URBS 4005: Development Scenarios and Impact Assessment Studio (Bachelor of Arts in Urban Studies Programme-Autumn 2023)
- 2022-2023 URBA 6011: Programming and Foundations in Urban Data Analysis (Master of Science in Urban Analytics Programme -Autumn 2022)

SKILLS

Programming Languages: Python, R, MATLAB, C/C++, JavaScript, Stata

Geospatial Software: ArcGIS Pro, QGIS, ENVI