

ZHAOXI ZHANG & PUBLICATIONS (2017-2022)

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Research Interests: Evidence-based Design; Data Augmented Design; Urban Morphology; Urban Design Methodology; Sensor-based; Personal tracking; Urban Health; Public Open Space; Fine-grained analysis on the human level; Place-Making Strategies; Computing Spatial.

JOURNAL ARTICLES

- **Zhang, Z.**, Amegbor, P. M., Sigsgaard, T., & Sabel, C. E. (2022). Assessing the association between urban features and human physiological stress response using wearable sensors in different urban contexts. *Health & Place*, 78, 102924. doi:<https://doi.org/10.1016/j.healthplace.2022.102924>
- **Zhang, Z.**, Amegbor, P. M., & Sabel, C. E. (2022). The feasibility of integrating wearable cameras and health trackers for measuring personal exposure to urban features: a pilot study in Roskilde, Denmark. *International Journal of E-Planning Research (IJEPR)*, 11(1), 1-21. <http://doi.org/10.4018/IJEPR.313181>
- Chen, L., **Zhang, Z.**, & Long, Y. (2021). Association between leisure-time physical activity and the built environment in China: Empirical evidence from an accelerometer and GPS-based fitness app. *PLoS One*, 16(12), e0260570. doi:10.1371/journal.pone.0260570
- **Zhang, Z.**, Long, Y., Chen, L., & Chen, C. (2021). Assessing personal exposure to urban greenery using wearable cameras and machine learning. *Cities*, 109. doi:10.1016/j.cities.2020.103006
- **Zhang, Z.**, Amegbor, P. M., & Sabel, C. E. (2021). Assessing the Current Integration of Multiple Personalised Wearable Sensors for Environment and Health Monitoring. *Sensors (Basel)*, 21(22). doi:10.3390/s21227693
- Amegbor, P. M., **Zhang, Z.**, Dalgaard, R., & Sabel, C. E. (2020). Multilevel and spatial analyses of childhood malnutrition in Uganda: examining individual and contextual factors. *Sci Rep*, 10(1), 20019. doi:10.1038/s41598-020-76856-y
- Wu, H., **Zhang, Z.**, Chen, Y., & Jiao, J. (2020). The impact of street characteristics on older pedestrians' perceived safety in Shanghai, China. *Journal of Transport and Land Use*, 13(1), 469-490. doi:10.5198/jtlu.2020.1588
- **Zhang, Z.**, & Long, Y. (2019). Application of wearable cameras in studying individual behaviors in built environments. *Landscape Architecture Frontiers*, 7(2), 22-37. doi:10.15302/j-laf-20190203

BOOK CHAPTER

- Sabel, C. E., Amegbor, P. M., **Zhang, Z.**, Chen, T.-H. K., Poulsen, M. B., Hertel, O., . . . Khan, J. (2021). Urban Health and Wellbeing. In W. Shi, M. F. Goodchild, M. Batty, M.-P. Kwan, & A. Zhang (Eds.), *Urban Informatics* (pp. 259-280). Singapore: Springer Singapore.

CONFERENCES

- "Measuring the health effects of 'Green' and 'blue' elements in different types of urban environments by employing wearable sensors: A field experiment in Copenhagen, Denmark". **Zhang, Z. (presenter)**, Amegbor, P. M., Sabel, C. E., & Sigsgaard, T. The 2022 American Association of Geographers Annual Meeting. American Association of Geographers, New York, USA, Feb 25–March 1, 2022
- "Integrating multiple personalised sensors for measuring human responses to urban features: A pilot study". **Zhang, Z. (presenter)**, Amegbor, P. M., & Sabel, C. E. 5th International Conference Urban E-Planning, Institute of Geography and Spatial Planning University of Lisbon, Lisbon, Portugal. Sep 2021
- "Exploration on the personal spatial exposure of greenness based on the experiment of wearable camera". **Zhang, Z. (presenter)**, & Long, Y. 16th International Conference on Computers in Urban Planning and Urban Management. Wuhan, China. July 8–12, 2019
- "Analysis on the Influence of Street Design on Elderly people's walking safety". **Zhang, Z. (presenter)**, & Chen, Y. The Proceedings of 2018 World Transport Convention. Beijing, China. Jun 13–16, 2018
- "A review of relationship between objective analysis and subjective perception on Urban Morphology Study". **Zhang, Z. (presenter)**, ISUF Conference 2017, Valencia, Spain. Sep 27–29, 2017
- "Regional Integration in Ethnic and Religious Contexts: Taking Germany and China as Examples". **Zhang, Z.**, AESOP Annual Congress 2017, Lisbon, Portugal. July 11–14, 2017
- "Analysis of the block built environment elements that influence residents' commute transportation choices". **Zhang, Z.**, & Wu, H. (presenter), 12th EBRA Conference, Chongqing, China. Oct 28–29, 2016