

Ye ZHANG, PhD

Associate Professor (Tenured)

School of Architecture, Tsinghua University

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EDUCATIONAL QUALIFICATIONS

- **Ph.D**, Department of Architecture / Downing College, University of Cambridge, UK Oct 2008 - Jul 2014
- **M.Arch**, School of Architecture, Tsinghua University, China Sept 2006 - Jul 2008
- **B.Arch (First Class Honours)**, School of Architecture, Tsinghua University, China Sept 2002 - Jul 2006

ACADEMIC EXPERIENCES

Academic Appointments

- **Associate Professor (Tenured)** Jan 2024 –
School of Architecture, Tsinghua University, China
- **Adjunct Associate Professor** Jan 2024 –
Department of Architecture, National University of Singapore, Singapore
- **Associate Professor (Tenured)** Jan 2022 – Jan 2024
Department of Architecture, National University of Singapore, Singapore
- **Assistant Professor** Jan 2013 – Dec 2021
Department of Architecture, National University of Singapore, Singapore

Administrative Appointments

- **Assistant Dean** Jan 2024 –
School of Architecture, Tsinghua University, China
- **Deputy Head** Apr 2026 –
Department of Architecture, School of Architecture, Tsinghua University, China
- **Deputy Head** Jan 2023 – Jan 2024
Department of Architecture, National University of Singapore, Singapore
- **Cluster Leader**, Urbanism Research and Teaching Cluster Jan 2023 – Jan 2024
Department of Architecture, National University of Singapore
- **Director**, Master of Arts in Urban Design (MAUD) Programme Jun 2020 – August 2023
Department of Architecture, National University of Singapore, Singapore

Academic Leadership (Selected)

- **Director General** 2020 - Present
International Forum of Urbanism (IFoU)
- **Panel Member** 2021 - 2024
Singapore Institute of Certified Planner (SICP), Accreditation Council
- **Editorial Board Member** 2017 - Present
Built Environment
- **Chair** 2016
Great Asian Streets Symposium (GASS) 2016
- **Co-chair** 2014
Great Asian Streets Symposium (GASS) 2014

RESEARCH

Research Areas:

- Urban morphology & urban design
- Algorithm Urbanism & human-environment interactions
- Sharing cities & urban commons

Research Grants & Projects:

- **Co-Principal Investigator** 2026 -
Research Project: Reconstructing spatial behaviours in early cities of Central Asia with generative AI
Funding: The Volkswagen Foundation (€ 439,538.00)
- **Principal Investigator** 2025 -
Research Project: Overseas High-Level Young Talents Fund
Funding: National Natural Science Foundation of China (NSFC) (¥ 2m)
- **Co-Principal Investigator** 2024 -
Research Project: AI framework for collaborative decision-making in urban planning and management
Funding: Tsinghua-NUS Joint Research Initiative Fund (¥ 200,000.00)
- **Principal Investigator** 2024 -
Research Project: Tsinghua University Overseas Talents Fund
Funding: Tsinghua University (¥ 3m)
- **Co-Principal Investigator** 2022 - 2026
Research Project: Comparative Ecology of Cities
Funding: Future City Lab (FCL) Global (S\$ 2m+)
- **Co-Principal Investigator** 2022 - 2025
Research Project: The Sea-City Interface
Funding: Future City Lab (FCL) Global (S\$ 2m+)
- **Principal Investigator** 2017 - 2022
Research Project: NUS-Tsinghua Design Research Initiative: Sharing Cities
Funding: Ng Teng Fong Charitable Foundation (Hong Kong) (S\$ 451,900.00)
- **Co-Principal Investigator** 2022 - 2024
Research Project: Interdisciplinary collaborative learning for design courses for the built environment
Funding: Teaching Enhancement Grants (TEG), National University of Singapore
- **Principal Investigator** 2017 - 2021
Research Project: Measuring Physical Profile and Use of Park Connector Network with Deep Learning and Multi-Source Multi-Modal Data Analytics
Funding: Ministry of Education (MOE), Academic Research Fund (AcRF), Singapore (S\$ 173,437.17)
- **Co-Principal Investigator** 2018 - 2021
Research Project: A Fine-grain History of Singapore Town: The Architecture and Socio-morphology of Four Forgotten Neighbourhoods
Funding: Heritage Research Grant, National Heritage Board, Singapore (S\$ 102,000.00)
- **Co-Principal Investigator** 2017 – 2018
Research Project: Smart Design: Human-Centric Planning of Urban Districts
Funding: Cambridge-Berkeley-NUS Global Alliance Research Fund (S\$ 87,500.00)
- **Principal Investigator** 2014 – 2018
Research Project: An Analytical Morphological Approach to Urban Conservation in China
Funding: Ministry of Education (MOE) Academic Research Fund (AcRF), Singapore (S\$ 89,957.10)

- **Co-Principal Investigator** 2018 - 2020
Research Project: Parametric Urban Modelling for JTC's Jurong Vision
Funding: Jurong Town Corporation (JTC), Singapore (S\$ 147,720.00)
- **Co-Principal Investigator** 2014 - 2015
Research Project: Re-thinking Our Urban Planning and Design Processes
Funding: Special fund for SG50, National University of Singapore, Singapore (S\$ 30,700.00)
- **Collaborator** 2015 - 2017
Research Project: Typology Study for Public Housing in Dover, Singapore
Funding: Urban Redevelopment Authority(URA), Singapore
- **Collaborator** 2013 - 2014
Research Project: Urban Prototyping
Funding: National University of Singapore Seed Fund, Singapore

AWARDS & HONOURS

Research Awards & Fellowship

- **Overseas High-Level Young Talents Award** 2024
National Natural Science Foundation of China
- **Best Paper Award, 13th Conference of International Forum of Urbanism** 2020
International Forum on Urbanism (IFoU)
- **Best Paper Award, 10th Conference of International Forum of Urbanism** 2017
International Forum on Urbanism (IFoU)
- **Visiting Academic, The Bartlett School of Planning, UCL** 2015
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom
- **Cambridge Overseas Trust** 2008 - 2011
University of Cambridge, United Kingdom
- **Downing College Research Grant** 2009
University of Cambridge, United Kingdom

Teaching Awards

- **Honour Roll, University Annual Teaching Excellence Award (ATEA)** 2022
National University of Singapore, Singapore (After receiving the award for three times)
- **University Annual Teaching Excellence Award (ATEA) 2020/2021** 2022
National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award)
- **University Annual Teaching Excellence Award (ATEA) 2019/2020** 2021
National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award)
- **University Annual Teaching Excellence Award (ATEA) 2017/2018** 2019
National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award)
- **Honour Roll, School Teaching Excellence Award Honour Roll** 2021
School of Design and Environment, National University of Singapore, Singapore
- **School Teaching Excellence Award 2019/2020** 2021
School of Design and Environment, National University of Singapore, Singapore
- **School Teaching Excellence Award 2018/2019** 2020
School of Design and Environment, National University of Singapore, Singapore
- **School Teaching Excellence Award 2016/2017** 2018
School of Design and Environment, National University of Singapore, Singapore

PUBLICATIONS

Books

- Zhang, Y., Dal Cin, F., Santos, J.R. & Zordan, M. (Ed.) (2027). *Beyond Fragmentation: Reimagining Togetherness of Urban Public Spaces*. London: Routledge. (Forthcoming)
- Li, X., & Zhang, Y. (2022). *Conserving and managing historical urban landscape: An integrated morphological approach*. Singapore: Springer Nature.
- Chan, J. K. H., & Zhang, Y. (2020). *Sharing by Design*. Cham, Switzerland: Springer Nature.
- Huang, H., Zhang, Y., De Gaus, M., Zhang, Y., & Tan, T.K. (2020). *Sharing Cities*. Beijing: Tsinghua University Press.
- Zhang, Y. (2014). *The Effects of Street-alleyway Environment upon Pedestrian Activities in the Old City of Beijing* (doctoral dissertation). United Kingdom: University of Cambridge.

Edited Volumes & Special Issues of Journals

- Zhang, Y., & Chan, J.K.H. (Ed.). (2020). Space-sharing Practices in the City [special issue]. *Built Environment*, 46(1).
- Zhang, Y., & Heng, C.K. (Ed.). (2016). *Crossroads: Asian Streets in the Dynamics of Change*. Singapore: Department of Architecture, National University of Singapore.
- Heng, C. K., Carracedo, O., & Zhang, Y. (Ed.). (2014). *Asian Urban Places*. Singapore: Department of Architecture, National University of Singapore.
- Lu, A., & Zhang, Y. (Ed.). (2012). Urban Reading 1: Urban Observation [special issue]. *Architectural Journal*, 528.
- Zhang, Y., & Lu, A. (Ed.). (2012). Urban Reading 2: Urban Description [special issue]. *Architectural Journal*, 529.
- Lu, A., & Zhang, Y. (Ed.). (2012). Urban Reading 3: Urban Formulation [special issue]. *Architectural Journal*, 531.
- Zhang, Y. (Ed.). (2011). Public Space Design – Learning from Copenhagen of the Last Decade [special issue]. *Architectural Journal*, 509.

Journal Articles

- Wu, A.N., Zhang, Y. & Stouffs, R. (2026) Deep learning completes US flood hazard maps revealing millions exposed to previously unrecognized risk. *Nature Communication*. doi: <https://doi.org/10.1038/s41467-026-74336-x>
- Li, X.X., Zhang, Y. & Chen, F. (2026) A combined morphological approach to urban regeneration: a case study of the Creative Quarter, Liverpool. *Town Planning Review*. doi: <https://doi.org/10.3828/tpr.2026.3>
- Liu, Y.H., Tang, L.L. & Zhang, Y. (2026) Can age-friendly and child-friendly urban public spaces be integrated? A systematic review and thematic analysis. *Urban Studies*. doi: <https://doi.org/10.1177/00420980261428806>
- Chi, D.K., Manoli, G., Yang, J., Richards, D., Hahs, A., Lin, B., McDonnell, M.J, Zhang, Y., Zhu, Y., Qiu, Y.S., Wang, J., Zheng, X., Burlando, P., Fatichi, S. & Tan, P.Y. (2026) Tree canopy configuration and Swiss adult mortality at the municipal level: A nationwide ecological study. *Environmental International*. doi: <https://doi.org/10.1016/j.envint.2026.110188>
- Yang, C.H., Zhu, Y.H. & Zhang, Y. (2026) Unpacking visual perception of urban public space using social media images and street view imagery: Insights from Singapore riverfront. *Frontier of Architectural Research*. doi: <https://doi.org/10.1016/j.foar.2025.12.009>
- Liu, Y.H., He, Z.S. & Zhang, Y. (2026) Design Characteristics of Campus Pedestrian Spaces of Comprehensive Universities in Singapore. *Landscape Architecture*. doi: <https://doi.org/10.3724/j.fjyl.LA20250341>
- Si, G.H., He, M.Y., Zhuang, W.M. & Zhang, Y. (2026) The complexity of urban form's impacts on residents' neighborhood perception: Machine learning evidence from Singapore. *Habitat International*. doi: <https://doi.org/10.1016/j.habitatint.2025.103701>

- Zhu, Y., Burlando, P., Zhang, Y., Chi, D.K., Wang, J., Qiu, Y.S., Bonatesta, M., Zou, W.Y., Geiß, C., Tan, P.Y., & Fatichi, S. (2025) The Influence of Urban Morphological Changes on Pluvial Flooding During Urban Expansion. *Sustainable Cities and Society*, doi: <https://doi.org/10.1016/j.scs.2025.107018>
- Zhu, Y., Wang, J., Manoli, G., Zhang, Y., Chi, D.K., Meili, N., Qiu, Y.S., Lin, G.S., Tan, P.Y., Burlando, P. & Fatichi, S. (2025) Influence of urban form and function on daytime-nighttime population differences and hazard risk assessments. *NPJ Sustainability*. doi: <https://doi.org/10.1038/s42949-025-00282-0>
- Zhu, Y.H., Brenken, M., Biljecki, F., & Zhang, Y. (2025) Unveiling the meaning in the image of the city: A novel approach using place reviews and large language models. *Environment and Planning B Urban Analytics and City Science*. doi: <https://doi.org/10.1177/23998083251369143>
- He, Z.S. & Zhang, Y. (2025) Connecting built form diversity and housing mix with refining diversity measurement under the general framework. *Cities*. Doi: <https://doi.org/10.1016/j.cities.2025.106243>
- Si, G.H.; Zhang, Y. & Zhuang, W.M. (2025) Will opening the gated community be perceived beneficial by residents? A comparative study of Beijing and Singapore. *Habitat International*. doi: <https://doi.org/10.1016/j.habitatint.2025.103330>
- Zhu, Y.H.; Zhang, Y. & Biljecki, F. (2025) Understanding the user perspective on urban public spaces: A systematic review and opportunities for machine learning. *Cities*. doi: <https://doi.org/10.1016/j.cities.2024.105535>
- Xia, Z.; Feng, W.; Cao, H.; Zhang, Y. (2024) Understanding the Influence of Built Environment Indicators on Transit-Oriented Development Performance According to the Literature from 2000 to 2023. *Sustainability*. Doi: <https://doi.org/10.3390/su16219165>
- Li, X. & Zhang, Y. (2024) Identifying the Multi-hierarchy of Urban Plots and Evaluating Their Spatial Potentials: a Case Study of Two Historic Areas in Laochengnan, Nanjing. *Urban Planning International*. Doi: <http://doi.org/10.19830/j.upi.2024.497>
- Ito, K, Kang, Y, Zhang, Y, Zhang, F, Biljecki, F (2024). Understanding urban perception with visual data: A systematic review. *Cities*. doi: <https://doi.org/10.1016/j.cities.2024.105169>
- He, Z & Zhang, Y. (2024). Dockless bike sharing in Singapore: perceptions of stakeholders, tensions of management, and implications for the public space. *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*. doi: <https://doi.org/10.1080/17549175.2024.2355331>
- Yang, C.H. & Zhang, Y. (2024). Public emotions and visual perception of the East Coast Park in Singapore: A deep learning method using social media data. *Urban Forestry & Urban Greening*. doi: <https://doi.org/10.1016/j.ufug.2024.128285>
- Zhang, Y., Ong, G.X., Jin, Z., Seah, C.M., & Chua, T.S. (2022). The effects of urban greenway environment on recreational activities in tropical high-density Singapore: a computer vision approach. *Urban Forestry & Urban Greening*. doi: <https://doi.org/10.1016/j.ufug.2022.127678>
- Song, Y., Zhang, Y., & Han, D.Q. (2022). Deciphering built form complexity of Chinese cities through plot recognition: A case study of Nanjing, China. *Frontier of Architectural Research*. doi: <https://doi.org/10.1016/j.foar.2021.12.007>
- Li, X., & Zhang, Y. (2021). Combining the historico-geographical and configurational approaches to urban morphology: the historical transformations of Ludlow, UK and Chinatown, Singapore. *Urban Morphology*, 25(1), pp.23-41. doi: [10.51347/UM25.0002](https://doi.org/10.51347/UM25.0002)
- Song, Y., Zhang, Y., & Han, D. (2021) Access structure. *Environment and Planning B: Urban Analytics and City Science*. doi:[10.1177/2399808320988560](https://doi.org/10.1177/2399808320988560)
- Chan, J.K.H & Zhang, Y. (2021). 'Wither' the sharing city. *Built Environment* 47(3), pp. 380-391. doi: <https://doi.org/10.2148/benv.47.3.380>
- Chan, J.K.H., & Zhang, Y. (2021). Sharing space: Urban sharing, sharing a living space, and shared social spaces. *Space and Culture*, 24(1):157-169. doi:[10.1177/1206331218806160](https://doi.org/10.1177/1206331218806160)
- Ng Y.H., & Zhang, Y. (2021). Towards an alternative design culture to empower older people through active ageing. *Journal of Urban Design and Mental Health* 7;9

- Zhang, Y., & Li, X. (2020). What new insights can the combination of the historico-geographical and configurational approaches to urban morphology offer? *Urban Morphology*, 24(1), pp.110-112
- Zhang, Y., & Chan, J.K.H. (2020). Space-sharing practice in the city. *Built Environment*, 46(1), pp. 5-10. doi: [10.2148/benv.46.1.5](https://doi.org/10.2148/benv.46.1.5)
- Bhuyan, R., & Zhang, Y. (2020). Diversity of children's independent mobility in Dhaka. *Urbanisation*, doi: [/10.1177/2455747119889915](https://doi.org/10.1177/2455747119889915)
- Bhuyan, R., & Zhang, Y. (2019). A mixed methods research strategy to study children's play and urban physical environments in Dhaka. *Journal of Mixed Methods Research*. doi: [10.1177/1558689819871820](https://doi.org/10.1177/1558689819871820)
- Zhang, J., Tan, P. Y., Zeng, H., & Zhang, Y. (2019). Walkability assessment in a rapidly urbanizing city and its relationship with residential estate value. *Sustainability*, 11(8). doi:[10.3390/su11082205](https://doi.org/10.3390/su11082205)
- Xia, Z.W., Zhang, Y., & Xu, L.Q. (2019). Influencing Factors and Improvement Strategies of TOD Performance in Rail Transit Station Area. *Planners*, 35(22), pp.5-12.
- Xia, Z.W., & Zhang, Y. (2019). From "5D" to "5D+N": Review of studies on TOD performance. *Urban Planning International*, 34(5), pp.109-116. doi:10.22217/upi.2018.256
- Cao, K., Guo, H., & Zhang, Y. (2019). Comparison of approaches for urban functional zones classification based on multi-source geospatial data: A case study in Yuzhong district, Chongqing, China. *Sustainability*, 11(3). doi: [10.3390/su11030660](https://doi.org/10.3390/su11030660)
- Zhang, Y., & Chen, K.H.T. (2018). How inclusive is the sharing economy? And what is the implication for neighbourhood design? *Proceedings of the Institution of Civil Engineers - Urban Design and Planning*, 171(6), pp. 247-257. doi: [10.1680/jurdp.18.00036](https://doi.org/10.1680/jurdp.18.00036)
- Song, Y., Han, D., & Zhang, Y. (2018). Representing the compositional hierarchy of built form of Chinese cities: a case study of Nanjing. *Architectural Journal*, 599, pp. 34-39.
- Zhang, Y. (2015). Morphologue: the Bartlett urban morphology group workshop, London. *Urban Morphology*, 19(2), pp. 167-168.
- Zhang, Y. (2012). Graph theory accessibility. *Architectural Journal*, 529, pp. 71-76.
- Zhang, Y. (2011). Learning from history, reflecting on reality and designing future with responsibility and commitment - review of UIA Tokyo. *Architectural Journal*, 518, pp. 1-8.
- Zhang, Y. (2011). Public space design as a process - reflecting on experience of Copenhagen. *Architectural Journal*, 509, pp. 1-4.
- Donald, A., & Zhang, Y.* (2010). Minimum or maximum cities. *World Architecture*, 226, pp. 112-117. doi: [10.16414/j.wa.2010.08.019](https://doi.org/10.16414/j.wa.2010.08.019)
- Zhang, Y., & Donald, A. (2010). Risk: what are we still scared of? *Urban Design*, 114, pp. 10-11.
- Li, X., & Zhang, Y. (2009). Reflecting on urban space: from Calvino and his Invisible City. *World Architecture*, 225, pp. 89-93. doi: [10.16414/j.wa.2009.03.011](https://doi.org/10.16414/j.wa.2009.03.011)
- Li, X., & Zhang, Y. (2009). Left-over urban space. *World Architecture*, 223, pp. 114-116. doi:[10.16414/j.wa.2009.01.020](https://doi.org/10.16414/j.wa.2009.01.020)

Book Chapters

- He, Z. & Zhang, Y. (2023). Diversity of Built Form: Is it and its relations with other dimensions of diversity well measured? In L, QU & M, Van Dorst (Eds.) *From Dichotomies to Dialogues: Connecting discourses for a sustainable urbanism*. Delft, the Netherlands: TU Delft Open.
- Zhang, Y & Chan, J.K.H. (2021). Towards an Architecture of the Sharing City. In *Together: The Singapore Pavilion*. Singapore: Department of Architecture, National University of Singapore.
- Stouffs, R., Janssen, P., & Zhang, Y. (2021). Potentiality analysis for urban planning. In C. Ruivo, D, L. Viana, F. Morais & J.V. Vaz (Eds.) *Formal methods in architecture and urbanism* (pp.147-162). Newcastle upon Tyne: Cambridge Scholars Publishing.

- Zhang, Y., & Chan, J.K.H. (2020). Design for shareability. In H. Huang, Y. Zhang, M. De Gaus, Y. Zhang, & T. K. Tan (Eds.), *Sharing Cities* (pp. 100-111). Beijing: Tsinghua University Press.
- Zhang, Y., Jin, Y., Steemers, K., & Cao, K. (2017). The study of the effects of built form on pedestrian activities: A GIS-based integrated approach. In Huang, B. (Ed.) *Comprehensive Geographic Information Systems* (pp. 330-344). Amsterdam and Oxford: Elsevier. doi:[10.1016/B978-0-12-409548-9.09676-7](https://doi.org/10.1016/B978-0-12-409548-9.09676-7)

Book Reviews, Magazine Articles & Interviews

- Zhang, Y., & Chan, J.K.H. (2021). Architecture of Sharing Culture. *Skyline*, 14, 28-29.
- Chan, J.K.H., & Zhang, Y. (2021). A roadmap to build back better: The sharing city. *Asian Global Online*. Retrieved from <https://www.asiaglobalonline.hku.hk/roadmap-build-back-right-sharing-city>
- Chan, J.K.H., & Zhang, Y. (2020). Seeking new architectural forms and social processes amid Covid-19. *The Singapore Architect*, 19, pp.42-43.
- Chan, J.K.H., & Zhang, Y. (2019). Anticipating the architecture of sharing culture. *The Singapore Architect*, 16, pp.96-99.
- Zhang, Y. (2016). Book review: Chinese urban design: the typo-morphological approach. *Journal of Urban Design*, 21(5), pp. 702–703. doi:[10.1080/13574809.2016.1220183](https://doi.org/10.1080/13574809.2016.1220183)
- Zhang, Y. (2016). Book review: How to study public life & measuring public space: the star model. *Journal of Urban Design*, 21(4), pp. 530–532. doi:[10.1080/13574809.2016.1167537](https://doi.org/10.1080/13574809.2016.1167537)

Conference Papers

- Zhang, Y., Nie, X., & Poon, J. (2026). Verticality and Social Exclusion: Examining Implicit and Explicit Mechanisms for Sky Gardens in Singapore. Paper presented at *International Conference on Urban Affairs 2026*, Chicago, United States of America.
- Liow, Z.P & Zhang, Y. (2025) Redesigning Design Studio Pedagogies: Unveiling Cross-Pollinative Team Learning's Impact on Teacher-Student Relationships and Academic Stress. Paper presented at *Association of Architectural Educators (AAE) Conference 2025*, Bristol, United Kingdom.
- Liow, Z.P & Zhang, Y. (2025) Let's Figure This Out Together: Building Social Support Through Cross-Pollinative Design Studio Pedagogy. Paper presented at *2025 Design Research Society (DRS) LearnxDesign Conference*, Aveiro, Portugal.
- Zhu, Y.H. & Zhang, Y. (2025) Reimagining Urban Imageability: Decoding Meaning of Urban Places through Place Reviews and Large Language Models. Paper presented at *17th International Forum on Urbanism: Future Living*, Lisbon, Portugal.
- Liu, Y.H. & Zhang, Y. (2025) Understanding the Effects of Physical Environment Factors on Intergenerational Co-presence and Interaction in Neighborhood Public Spaces. Paper presented at *17th International Forum on Urbanism: Future Living*, Lisbon, Portugal.
- Nie, X.Y., Zhang, Y., & Poon, J.P.H. (2025) Verticality and Social Exclusion: Implicit and Explicit Mechanisms of Singapore's Sky Gardens. Paper presented at *Asia-Pacific Network for Housing Research 2025 Conference*, Beijing, China.
- Wang, J., Zhang, Y. & Tan, P.Y. (2024) Causal machine learning unveils the impact of urban form on local economic vibrancy. Paper presented at *the 31st Conference of the International Seminar on Urban Form*, Sao Paulo, Brazil.
- Chen, Q. & Zhang, Y. (2023). Spatial Justice in Urban Landscapes: The Relationship between Accessibility Improvement and Residents' QOL in Singapore. Paper presented at the *International Symposium, Spatial Justice in Practice*, Delft, the Netherlands.
- He, Z. & Zhang, Y. (2023). Measuring built form diversity for housing tenure mix: testing measures at seven wards, London. In *Proceedings of 30th International Seminar on Urban Form: Praxis of Urban Morphology* (pp. 414-431), Belgrade: BIROGRAF COMP

- He, Z. & Zhang, Y. (2021). Diversity of Built Form: Is it and its relations with other dimensions of diversity well measured? Paper presented at the 14th *International Forum on Urbanism: From Dichotomies to Dialogues*, Delft, the Netherlands
- Gu, Z.X., Zhang, Y., & Yang, C.X. (2021). Analysis of waterfront public space activities based on walking and space demand simulation: taking the public space on the North Bund of the Huangpu River as an example. In *Proceedings of the 19th Asian Congress of Architects: Sharing and Regeneration* (pp. 134-153), Shanghai, China: Tongji University
- Li, X., & Zhang, Y. (2021). A combined morphological approach to urban conservation and management: the case of Nanjing. Paper presented at the 28th *International Seminar of Urban Form: urban form and the sustainable prosperous city*, Glasgow, UK.
- Lv, M., & Zhang, Y. (2021). Exploring development of street types and their impact on spatial people's aggregation in Nanjing. Paper presented at the 28th *International Seminar of Urban Form: urban form and the sustainable prosperous city*, Glasgow, UK.
- Ong, G., & Zhang, Y. (2020). Observation of urban activities with computer vision. Paper presented at the 13th *International Forum of Urbanism*, Nanjing, China.
- He, Z., & Zhang, Y. (2020). Dockless bike-sharing system and its relations with public space: What does media news tell us? Paper presented at the 13th *International Forum on Urbanism*, Nanjing, China.
- Chan, K.H.J., & Zhang, Y. (2019). The design question: commons through commoning, and commons by capital? Paper presented at *The City as a Commons, Research Symposium 2019*, Pavia, Italy.
- Chan, K.H.J., & Zhang, Y. (2019). Beyond the neoliberal city: commoning sharing practices and sharing the urban commons. Paper presented at the 35th *EGOS Colloquium*, Edinburgh, United Kingdom.
- Zhang, Y., & Song, Y. (2019). Access structure: an innovative articulation of the inner structure of urban blocks. Paper presented at the 26th *International Seminar on Urban Form: Cities as Assemblages*, Nicosia, Cyprus.
- Li, X., & Zhang, Y. (2019). Combining the historico-geographical and configurational approaches for landscape unit evaluation. Paper presented at the 26th *International Seminar on Urban Form: Cities as Assemblages*, Nicosia, Cyprus.
- Chan, K.H.J., & Zhang, Y. (2019). Urban resilience in the smart city. Paper presented at the 12th *International Forum of Urbanism*, Jakarta, Indonesia.
- Lam, C.Y., & Zhang, Y. (2019). Exploring an alternative to bridging Hong Kong and Shenzhen: Lok Ma Chau Loop as new urban commons. Paper presented at the 12th *International Forum on Urbanism*, Jakarta, Indonesia.
- Yeow, Y.H., & Zhang, Y. (2019). A feeding strait: imaging a cross-border commons between Singapore and Malaysia. In *Proceedings of the 6th International Conference of on Architecture and Built Environment, S.Arch 2019* (pp. 116-127), Erlangen, Germany: Get It Published.
- Zhang, Y., Jin, Z., Kumari, R., Seah, C. M., & Chua, T. S. (2018). Measuring the physical profile and use of Park Connector Network in Singapore using deep learning and big data analytics. In *Proceedings of IFoU 2018: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience*. MDPI. doi: [10.3390/ifou2018-05972](https://doi.org/10.3390/ifou2018-05972)
- Zhang, Y., Simona, A., Janssen, P., & Stouffs, R. (2018). Design for walkable neighbourhoods in Singapore using Form-based Codes. In *Proceedings of IFoU 2018: Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience*. MDPI. doi: [10.3390/ifou2018-05934](https://doi.org/10.3390/ifou2018-05934)
- Stouffs, R., Janssen, P., & Zhang, Y. (2018). Potentiality analysis for urban planning. Paper presented at the 4th *International Symposium on Formal Methods in Architecture*, Porto, Portugal.
- Islam, N., & Zhang, Y. (2017). Exploring the interrelation between street trading and urban form in Dhaka: a new morphological approach. In T. Hendrik, G. Yan & R. Francesco (Eds.), *The Entrepreneurial City: proceedings of the 10th conference of International Forum on Urbanism* (pp. 360-370). Hong Kong SAR, China: The Chinese University of Hong Kong.
- Zhang, Y., & Chen, K.H.T. (2017). Envisioning spatial practice of co-production and collaborative consumption in the urban neighbourhood of Singapore. In T. Hendrik, G. Yan & R. Francesco (Eds.), *The Entrepreneurial City: proceedings of the 10th Conference of International Forum on Urbanism* (pp. 473-485). Hong Kong SAR, China: The Chinese University of Hong Kong.

- Chan, J.K.H., & Zhang, Y. (2017). A Systems Approach to Designing Urban Commons and Their Sharing Practice: A Case Study of an Urban Design Studio in Singapore. In B. Sevaldson (Ed.), *Proceedings of Relating Systems Thinking and Design (RSD6) 2017 Symposium*. Oslo, Norway: Systemic Design Research Network
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- Li, X., & Zhang, Y. (2017). Exploring different morphological approaches to area-based conservation in Nanjing, China. Paper presented at the *24th International Seminar on Urban Form: City and Territory in the Globalization Age*, Valencia, Spain.
- Zhang, Y., Xie, X., & Zhang, J. (2017). A configurational perspective on the transformation of small and medium-sized historical towns in Zhejiang, China. In *Proceedings of the 24th International Seminar on Urban Form: City and Territory in the Globalization Age*. Valencia, Spain: Universitat Politècnica de València. doi:[10.4995/ISUF2017.2017.6000](https://doi.org/10.4995/ISUF2017.2017.6000)
- Zhang, Y., & Li, X. (2016). Exploring combined use of two morphological traditions in studying Ludlow, UK. Paper presented at the *23rd International Seminar on Urban Form*, Nanjing, China.
- Zhang, Y. (2015). Exploring collaboration between the Conzenian and configurational approaches to urban morphology. In G. Strappa, A. Rita, D. Amato & A. Camporeale (Eds.), *City as Organism: proceedings of 22nd International Seminar on Urban Form* (pp. 509-516), Rome: U+D Edition.
- Bhuyan, R., & Zhang, Y. (2014). Accessibility of Play Spaces in Dhanmondi Residential Area, Dhaka, Bangladesh. In C.K. Heng, O. Carracedo, & Y. Zhang. (Eds.), *Asian Urban Places: Proceedings of Great Asian Streets Symposium 2014* (pp. 302-314), Singapore: Department of Architecture, National University of Singapore.
- Zhang, Y., & Li, X. (2014). An exploration of complementary utilisation of Spacematrix, Space Syntax and Place Syntax methods in urban design: A case study of neighbourhoods in Nanjing, China. Paper presented at the *21st International Seminar on Urban Form*, Porto, Portugal.
- Zhang, Y. (2013). Effects of street-alleyway environment upon pedestrian activities in the Old City of Beijing. Paper presented at the *20th International Seminar on Urban Form*, Brisbane, Australia.
- Zhang, Y., Jin, Y., & Steemers, K. (2012). How does the street-alleyway network affect pedestrian behaviour in the Old City of Beijing? A study based on four analytical models. Paper presented at the *Applied Urban Modelling 2012 conference*. Cambridge, United Kingdom.
- Zhang, Y. (2009). Constraint and uncertainty: a risk perspective of public space design and maintenance. In L. Qu, C. Yang, X. Hui, & D. Sepulveda (Eds.), *The New Urban Questions - Urbanism beyond Neo-Liberalism: proceedings of the 4th Conference of International Forum on Urbanism* (pp. 849-856), Delft, the Netherlands: Delft University of Technology.

PHD STUDENTS SUPERVISED

▪ Se Yong Tan (Chinese Government Scholarship) <i>Thesis topic:</i> TBC	2025 –
▪ Qiaochu Wang <i>Thesis topic:</i> TBC	2025 –
▪ Niloofer Hashemi (President's Graduate Fellowship, NUS) <i>Thesis topic:</i> Reproducing belonging – Public spaces and cultivation of new belongings among Iranian migrant women	2022 –
▪ Linghao Wang <i>Thesis topic:</i> Understanding Human Dynamic through Place Semantic Centrality	2022 –
▪ Yihan Zhu (Department Research Scholarship, NUS) <i>Thesis topic:</i> Understanding the imageability of urban public spaces through multi-source data in Singapore	2021 – 2026

- **Yanhan Liu** 2021 – 2026
Thesis topic: Effects of physical environments on intergenerational interaction in urban public spaces at high-density Singapore neighbourhoods
- **Zhengping Liow** 2021 – 2026
Thesis topic: Navigating the waves – evaluating the role of social support and academic buoyancy on mental well-being and academic performance in beginning design students
- **Zhuoshu He** 2020 – 2026
Thesis topic: Measuring diversity of built environment for neighbourhood housing mix
- **Nabanita Islam** (NUS Research Scholarship, NUS) 2016 – 2023
Thesis topic: Spatial distribution of street trading location in Dhaka: Patterns and influencing factors
- **Xiaoxi Li** (NUS Research Scholarship, NUS) 2014 – 2019
Thesis topic: Exploring combined approach of urban morphology to plan unit recognition and evaluation
- **Rashed Bhuyan** (NUS Research Scholarship, NUS) 2013 – 2018
Thesis topic: Children’s play and its relationship with urban physical environments in Dhaka

OTHER ACADEMIC PRESENCE

Invitations to Lectures/Talks (Selected)

- **Invited Talk:** AI for Collaborative Urban Planning and Management 2026
NUS-Tsinghua Joint Research Symposium, National University of Singapore, Singapore
- **Invited Chair:** Human-Centred Urbanism in the 21st Century: Insights from Gehl & Sennett 2025
2025 Conference of International Forum on Urbanism, University of Lisbon, Portugal
- **Invited Keynote:** Sharing, space and space-sharing practice 2023
Fast-forward Talk, University of Auckland, Auckland, New Zealand
- **Invited Talk:** Reinventing the sharing city from Covid-19 2022
International Academic Symposium, Asia Culture Centre, Gwangju, South Korea
- **Invited Talk:** Together 2022
Singapore Pavilion (Home exhibition), the 17th Venice Architecture exhibition of La Biennale di Venezia
- **Invited International Keynote:** Collective Realm 2021
Curtin University, Perth, Australia
- **Invited Talk:** International Voice-Constructing Coexistence and Future of Environment-making 2021
Nanjing University, Nanjing, China
- **Invited talk,** NUS Teaching Academy-School of Design and Environment Teaching Webinar 2020
National University of Singapore, Singapore
- **Invited talk,** NUS Festival of Learning 2019
National University of Singapore, Singapore
- **Invited lecture,** Annual CUBE workshop 2017-2023
Urban Redevelopment Authority (URA), Singapore
- **Invited talk,** UIA Seoul International Studio Forum, UIA World Congress of Architects 2017
The Architectural Institute of Korea (AIK), Seoul, South Korea
- **Invited talk,** The Bartlett Morphology Group International Seminars Series 2015
The Bartlett School of Planning, University College London, London, UK
- **Invited lecture,** Department of Geography Guest Lecture 2015
Department of Geography, University of Birmingham, Birmingham, UK
- **Invited lecture,** School of Architecture and Urban Planning Guest Lecture Series 2013
School of Architecture and Urban Planning, Nanjing University, China
- **Invited talk,** Department Centenary Symposium: 100 Years: Research and Practice Department of Architecture, University of Cambridge, UK 2012

International Exhibitions (Selected)

- **UIA World Congress of Architects 2023:** 2023
Copenhagen, Denmark
- **17th International Architecture Exhibition at La Biennale di Venezia: How will we live together?** 2021
Venice, Italy
- **Singapore Architecture Festival 2020: Architecture Saving Our World** 2020
Singapore, Singapore
- **UIA World Congress of Architects 2017: Soul of City** 2017
Seoul, South Korea

TEACHING

Education Grants & Projects:

- **Principal Investigator** 2025 -
Research Project: Design Thinking Module for Interdisciplinary Undergraduate Education
Funding: Teaching Innovation Grants, Tsinghua University
- **Principal Investigator** 2024 -
Research Project: Curriculum Development for English-taught Bachelor of Architecture Programme
Funding: Teaching Innovation Grants, Tsinghua University
- **Co-Principal Investigator** 2022 - 2024
Research Project: Interdisciplinary collaborative learning for design courses for the built environment
Funding: Teaching Enhancement Grants (TEG), National University of Singapore

Teaching Innovations & Leadership

- **Tsinghua-NUS Joint Design Research Studio** 2024 -
Type: International collaborative studio
Contributions: Led the establishment of the international collaboration for design education; developed the pedagogical approach to promoting collaborative learning; curated resources from both academia and practice to enhance design teaching.
- **New Curriculum, English-taught Bachelor of Architecture Programme, Tsinghua University** 2017 -
Type: Curriculum Development
Contributions: Led the development of the five-year curriculum development for the newly initiated English-taught programme of Bachelor of Architecture for international students
- **Programme Revamp, Master of Arts in Urban Design (MAUD) Programme, NUS** 2021-2022
Type: Education Programme Revamp
Contributions: Reformed the programme's structure, pedagogical approaches and curriculum to better prepare students for the fast-changing profession; promoted collaborative learning by integrating different modules; engaged practitioners to enhance education.
- **International Forum on Urbanism (IFoU) Global Studio** 2020
Type: International Design Charrette
Contributions: Co-led the development of a 24-hour online global studio for the IFoU Summer School; promoted virtual design collaboration between students from Europe, East and Southeast Asia, New Zealand and South America.
- **Challenge for Urban & Built Environment (CUBE) workshop** 2017 - 2023
Type: National design charrette
Contributions: Co-organised the workshop for pre-university students; provided keynote lectures on sustainable urban design; facilitate team-based design competitions; served as design reviewers.

▪ **International Forum of Urbanism (IFoU) Winter School**

2015

Type: International design charrette

Contributions: Co-developed and organised the winter school for more than 200 students from 15 IFoU member universities around the world; delivered teaching under the theme of sustainable mobility.

Module Developed & Taught (Tsinghua)

- **Design Thinking** Class size: 80-90
A core foundation module for multi-disciplinary undergraduate international students
- **Conviviality by Design: Deciphering and Envisaging Public Spaces** Class size: 25-30
A general education module for undergraduate students across all levels
- **Urban Design Studio** Class size: 10
A core module for Master of Architecture programme
- **Science, Arts and Architecture** Class size: 90-100
A core module for PhD students in School of Architecture

Module Developed & Taught (NUS)

- **Critique of Contemporary Urban Design** Class size: 25-30
A core module for Master of Arts in Urban Design (MAUD) programme
- **Urban Design Studio** Class size: 9-10
A core module for Master of Arts in Urban Design (MAUD) programme
- **Urban Design Theory and Praxis** Class size: 100-120
One of the two core theory modules for Master of Architecture (M.Arch) programme
- **M.Arch Thesis** Class size: 4-5
The core design module of Master of Architecture (M.Arch) programme
- **Options Design Research Studio** Class size: 10-12
The core design module of Master of Architecture (M.Arch) programme
- **Urban Form: Performance and Measurement** Class size: 25-30
An elective module opening to all programmes
- **Architecture Design Studio 5 & 6** Class size: 10-12
The core design module for the Bachelor of Architecture (B.Arch) programme
- **Research Methodology** Class size: 25-30
A compulsory module for both Master of Architecture and PhD programme