Ye ZHANG, PhD

Associate Professor (Tenured)

School of Architecture, Tsinghua University Email: <u>zhang-ye@mail.tsinghua.edu.cn</u>

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 APPOINTMENTS	
Associate Professor (Tenured) School of Architecture, Tsinghua University, China	Jan 2024 – Present
 Adjunct Associate Professor Department of Architecture, National University of Singapore, Singapore 	Jan 2024 – Present
 Associate Professor (Tenured) Department of Architecture, National University of Singapore, Singapore 	Jan 2022 – Jan 2024
 Assistant Professor Department of Architecture, National University of Singapore, Singapore 	Jan 2013 – Dec 2021
■ Assistant Dean School of Architecture, Tsinghua University, China	Jan 2024 – Present
 Deputy Head Department of Architecture, National University of Singapore, Singapore 	Jan 2023 – Jan 2024
 Cluster Leader, Urbanism Research and Teaching Cluster Department of Architecture, National University of Singapore 	Jan 2023 – Jan 2024
 Director, Master of Arts in Urban Design (MAUD) Programme Department of Architecture, National University of Singapore, Singapore 	Jun 2020 – August 2023
ACADEMIC LEADERSHIP/SERVICES	
■ Director General International Forum of Urbanism (IFoU)	2020 - Present
 Panel Member Singapore Institute of Certified Planner (SICP), Accreditation Council 	2021 - 2024
■ Editorial Board Member Built Environment	2017 - Present
■ Chair Great Asian Streets Symposium (GASS) 2016	2016
■ Co-chair Great Asian Streets Symposium (GASS) 2014	2014
■ Co-convener The Bartlett Morphology Group International Seminars Series, The Bartlett School of Planning	2015
■ External/Internal Examiner for PhD theses submitted to University of Auckland, Chinese University of Hong Kong, and National University of Singapore	2018 - Present

• Reviewers for various International Refereed Journals, including Environment and Planning B: Urban Analytics and City Science, Journal of Urban Design, Urban Morphology, Frontier of Architectural Research, Urban Design International, Habitat International, Built Environment, etc.	2015 - Present
 Scientific Committee Member for various International Conference, including International Seminar of Urban Form (ISUF), International Forum on Urbanism (IFoU), Great Asian Streets Symposium, Pacific Rim Community Design Network, etc. 	2014 – Present
RESEARCH	
Research Areas:	
 Urban morphology & urban design AI & human-environment interactions Sharing cities & urban commons 	
Research Grants & Projects:	
 Principal Investigator Research Project: National Overseas High-Level Talents Award Funding: National Natural Science Foundation of China (NSFC) (¥ 2m) 	2024 - present
Principal Investigator	2024 - present
Research Project: Tsinghua University Overseas Talents Award Funding: Tsinghua University (¥ 3m)	
Co-Principal Investigator	2022 - present
Research Project: Comparative Ecology of Cities Funding: Future City Lab (FCL) Global (S\$ 2m+)	
 Co-Principal Investigator 	2022 - present
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 - Present
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 (\$\$ 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	
■ Best Paper Award, 13th Conference of International Forum of Urbanism International Forum on Urbanism (IFoU)	2020
■ Best Paper Award, 10 th Conference of International Forum of Urbanism International Forum on Urbanism (IFoU)	2017
■ Visiting Academic, The Bartlett School of Planning, UCL	2015
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom	
<u> </u>	2008 - 2011
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust	2008 - 2011 2009
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant	
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom	
The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Teaching Awards Honour Roll, University Annual Teaching Excellence Award (ATEA)	2009
 The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Teaching Awards Honour Roll, University Annual Teaching Excellence Award (ATEA)	2009
 The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Teaching Awards Honour Roll, University Annual Teaching Excellence Award (ATEA) National University of Singapore, Singapore (After receiving the award for three times) University Annual Teaching Excellence Award (ATEA) 2020/2021 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) University Annual Teaching Excellence Award (ATEA) 2019/2020 	2009 2022 2022
 The Bartlett Faculty of the Built Environment, University College London (UCL), United Kingdom Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Teaching Awards Honour Roll, University Annual Teaching Excellence Award (ATEA) National University of Singapore, Singapore (After receiving the award for three times) University Annual Teaching Excellence Award (ATEA) 2020/2021 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) University Annual Teaching Excellence Award (ATEA) 2019/2020 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) University Annual Teaching Excellence Award (ATEA) 2017/2018 	2009 2022 2022 2021
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 Cambridge Overseas Trust University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Downing College Research Grant University of Cambridge, United Kingdom Teaching Awards Honour Roll, University Annual Teaching Excellence Award (ATEA) National University of Singapore, Singapore (After receiving the award for three times) University Annual Teaching Excellence Award (ATEA) 2020/2021 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) University Annual Teaching Excellence Award (ATEA) 2019/2020 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) University Annual Teaching Excellence Award (ATEA) 2017/2018 National University of Singapore, Singapore (Less than 2% of teaching staff at NUS receive this award) Honour Roll, School Teaching Excellence Award Honour Roll School Teaching Excellence Award Singapore, Singapore School Teaching Excellence Award 2019/2020 	2009 2022 2022 2021 2019 2021

<u>Selected Invitations to Lectures and Presentations</u>

■ Invited Keynote: Sharing, space and space-sharing practice Fast-forward Talk, University of Auckland, New Zealand	2023
 Invited Talk: Reinventing the sharing city from Covid-19 International Academic Symposium, Asia Culture Centre, Gwangju, South Korea 	2022
■ Invited Talk: Together Singapore Pavilion (Home exhibition), the 17 th Venice Architecture exhibition of La Biennale di Venezia	2022
 Invited International Keynote: Collective Realm Curtin University, Perth, Australia 	2021
 Invited Talk: International Voice-Constructing Coexistence and Future of Environment-making Nanjing University, Nanjing, China 	2021
 Invited talk, NUS Teaching Academy-School of Design and Environment Teaching Webinar National University of Singapore, Singapore 	2020
 Invited talk, NUS Festival of Learning National University of Singapore, Singapore 	2019
■ Invited lecture, Annual CUBE workshop Urban Redevelopment Authority (URA), Singapore	2017-Present
 Invited talk, UIA Seoul International Studio Forum, UIA World Congress of Architects The Architectural Institute of Korea (AIK), Seoul, South Korea 	2017
 Invited talk, The Bartlett Morphology Group International Seminars Series The Bartlett School of Planning, University College London, London, UK 	2015
 Invited lecture, Department of Geography Guest Lecture Department of Geography, University of Birmingham, Birmingham, UK 	2015
 Invited lecture, School of Architecture and Urban Planning Guest Lecture Series School of Architecture and Urban Planning, Nanjing University, China 	2013
■ Invited talk, Department Centenary Symposium: 100 Years: Research and Practice Department of Architecture, University of Cambridge, UK	2012
Selected International Exhibitions	
 UIA World Congress of Architects 2023: Copenhagen, Denmark 	2023
■ 17th International Architecture Exhibition at La Biennale di Venezia: How will we live together? Venice, Italy	2021
 Singapore Architecture Festival 2020: Architecture Saving Our World Singapore, Singapore 	2020
 UIA World Congress of Architects 2017: Soul of City Seoul, South Korea 	2017
■ Beijing International Design Week Beijing, China	2017

PUBLICATIONS

Books

- 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. (Eds.). (2020). Space-sharing Practices in the City [special issue]. Built Environment, 46(1).
- Zhang, Y., & Heng, C.K. (Eds.). (2016). Crossroads: Asian Streets in the Dynamics of Change. Singapore: Department of Architecture, National University of Singapore.
- Heng, C. K., Carracedo, O., & Zhang, Y. (Eds.). (2014). Asian Urban Places. Singapore: Department of Architecture, National University of Singapore.
- Lu, A., & Zhang, Y. (Eds.). (2012). Urban Reading 1: Urban Observation [special issue]. Architectural Journal, 528.
- Zhang, Y., & Lu, A. (Eds.). (2012). Urban Reading 2: Urban Description [special issue]. *Architectural Journal*, 529.
- Lu, A., & Zhang, Y. (Eds.). (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

- Zhu, Y.H.; Zhang, Y. & Biljecki, F. (2024) 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
- Song, Y., Zhang, Y., & Han, D. (2021) Access structure. Environment and Planning B: Urban Analytics and City Science. doi: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
- 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
- Bhuyan, R., & Zhang, Y. (2020). Diversity of children's independent mobility in Dhaka. *Urbanisation*, doi: /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
- 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
- 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
- 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
- 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
- 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

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

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
- 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

Conference Papers

- 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 of 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 of 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
- 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
- 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
- Xie, X., Zhang, Y., & Zhang, J. (2017). Spatial transformation and changing urban activities of small- and mediumsized historical towns in Zhejiang, China. Paper presented at the 14th International Congress of Asian Planning Schools Association, Beijing, China.
- 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 mediumsized 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
- 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

• Niloofar Hashemi (President's Graduate Fellowship) Thesis topic: Reproducing belonging – Public spaces and cultivation of new belongings among Iranian migrant women	2022 –
■ Wang Linghao Thesis topic: TBC	2022 –
• Yihan Zhu (Department Research Scholarship) Thesis topic: Understanding the imageability of urban public spaces through multi-source data in Singapore	2021 –
■ Yanhan Liu Thesis topic: Effects of physical environments on intergenerational interaction in urban public spaces at high-density Singapore neighbourhoods	2021 –
■ Zhengping Liow 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	2021 –
■ Zhuoshu He Thesis topic: Measuring diversity of built environment for neighbourhood housing mix	2020 –
 Nabanita Islam (NUS Research Scholarship) Thesis topic: Spatial distribution of street trading location in Dhaka: Patterns and influencing factors 	2016 – 2023
• Xiaoxi Li (NUS Research Scholarship) Thesis topic: Exploring combined approach of urban morphology to plan unit recognition and evaluation	2014 – 2019
• Rashed Bhuyan (NUS Research Scholarship) Thesis topic: Children's play and its relationship with urban physical environments in Dhaka	2013 – 2018

TEACHING

Dissertation

Research Methodology

A core module of Master of Architecture (M.Arch) programme

A compulsory module for both Master of Architecture and PhD programme

Selected Teaching Innovations & Leadership 2017 - 2022 NUS-Tsinghua Design Research Studio 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. 2021-2022 New Curriculum, Master of Arts in Urban Design (MAUD) Programme, NUS Type: Programme redevelopment Contributions: Reformed the programme's 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 South East Asia, New Zealand and South America. 2017 - 2023 Challenge for Urban & Built Environment (CUBE) workshop Type: National-level 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. NUS-Beijing University of Civil Engineering and Architecture (BUAEA) Workshop 2018 Type: International academic workshop Contributions: Developed and conducted the workshop programme in Singapore for students from Beijing University of Civil Engineering and Architecture; delivered teaching on sharing cities for the programme. 2015 International Forum of Urbanism (IFoU) Winter School 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 (NUS) Class size: 25-30 Critique of Contemporary Urban Design A core module for Master of Arts in Urban Design (MAUD) programme Class size: 9-10 Urban Design Studio 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 Class size: 4-5 M.Arch Thesis The core design module of Master of Architecture (M.Arch) programme Class size: 10-12 Options Design Research Studio The core design module of Master of Architecture (M.Arch) programme Class size: 25-30 Urban Form: Performance and Measurement An elective module opening to all programmes Class size: 10-12 ■ Architecture Design Studio 5 & 6 The core design module for the Bachelor of Architecture (B.Arch) programme

Class size: 4-5

Class size: 25-30