

# Ye ZHANG, PhD

## Associate Professor

Department of Architecture,  
College of Design and Environment, National University of Singapore  
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### ACADEMIC QUALIFICATIONS

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- **Ph.D**, Department of Architecture / Downing College, University of Cambridge, UK Oct 2008 - Jul 2014  
*Thesis:* Effects of street-alleyway environment upon pedestrian activities in the Old City of Beijing  
*Supervisors:* Professor Koen Steemers & Professor Ying Jin
- **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 2007

### ACADEMIC APPOINTMENTS

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- **Associate Professor** Jan 2022 – Present  
Department of Architecture, National University of Singapore
- **Director**, Master of Arts in Urban Design (MAUD) Programme Jun 2020 – Present  
Department of Architecture, National University of Singapore
- **Assistant Professor** Jan 2013 – Dec 2021  
Department of Architecture, National University of Singapore

### ACADEMIC LEADERSHIP/SERVICES

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- **Director General** 2020 - Present  
International Forum of Urbanism (IFoU)
- **Executive Team Member** 2016 - 2020  
International Forum of Urbanism (IFoU)
- **Director & Co-founder** 2017 - Present  
NUS-Tsinghua Design Research Initiative: Sharing Cities
- **Editorial Board Member** 2017 - Present  
*Built Environment*
- **Chair** 2016  
Great Asian Streets Symposium (GASS) 2016
- **Co-chair** 2014  
Great Asian Streets Symposium (GASS) 2014
- **Co-convener** 2015  
The Bartlett Morphology Group International Seminars Series, The Bartlett School of Planning
- **External/Internal Examiner for PhD theses submitted to** 2018 - Present  
University of Auckland and National University of Singapore
- **Reviewers for various International Refereed Journals, including** 2015 - Present  
*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.*
- **Scientific Committee Member for various International Conferences, including** 2014 – Present  
International Seminar of Urban Form (ISUF), International Forum on Urbanism (IFoU), Great Asian Streets Symposium, Pacific Rim Community Design Network, etc.

## RESEARCH

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### Research Areas:

- Urban morphology, built form structure, and street layout
- Sharing cities, public spaces, and urban commons

### Research Grants & Projects:

- **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 - Present  
*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 (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 - Present  
*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

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### Research Awards & Fellowship

- **Best Paper Award**, 13<sup>th</sup> Conference of International Forum of Urbanism  
International Forum on Urbanism (IFoU) 2020
- **Best Paper Award**, 10<sup>th</sup> 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
- **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 2018/2019** 2020  
School of Design and Environment, National University of Singapore, Singapore
- **School Teaching Excellence Award 2017/2018** 2019  
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

### Invitations to Lectures and Presentations (Selected)

- **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-Present  
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 2012  
Architecture, University of Cambridge, UK

### International Exhibitions (Selected)

- **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 Seoul World Architects Congress: Soul of City** 2017  
Seoul, South Korea
- **Beijing International Design Week** 2017  
Beijing, China

## **PUBLICATIONS**

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### 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

- 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**

- 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**

- 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 19<sup>th</sup> 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 *28<sup>th</sup> 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 *28<sup>th</sup> 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 *13<sup>th</sup> 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 *13<sup>th</sup> 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 *35<sup>th</sup> 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 26<sup>th</sup> 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 26<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> 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 6<sup>th</sup> 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 4<sup>th</sup> 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 medium-sized historical towns in Zhejiang, China. Paper presented at the 14<sup>th</sup> 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 24<sup>th</sup> 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 23<sup>rd</sup> 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 21<sup>st</sup> *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 20<sup>th</sup> *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 4<sup>th</sup> Conference of International Forum on Urbanism* (pp. 849-856), Delft, the Netherlands: Delft University of Technology.

## PHD STUDENTS SUPERVISED

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### As Main Supervisor

- **Niloofer Hashemi** (President's Graduate Fellowship) 2022 –  
*Thesis topic:* TBC
- **Yihan Zhu** (Department Research Scholarship) 2021 –  
*Thesis topic:* TBC
- **Yanhan Liu** 2021 –  
*Thesis topic:* TBC
- **Zhengping Liow** 2021 –  
*Thesis topic:* Uncertainties for Beginning Design Students in the Collaborative Team Learning Design Studio
- **Zhuoshu He** 2020 –  
*Thesis topic:* Diversity of built form and social mixing
- **Nabanita Islam** (NUS Research Scholarship) 2016 –  
*Thesis topic:* Spatial distribution of street trading location in Dhaka: Patterns and influencing factors
- **Xiaoxi Li** (NUS Research Scholarship) 2014 – 2019  
*Thesis topic:* Exploring combined approach of urban morphology to plan unit recognition and evaluation
- **Rashed Bhuyan** (NUS Research Scholarship) 2013 – 2018  
*Thesis topic:* Children's play and its relationship with urban physical environments in Dhaka

### As Co-supervisor & Thesis Committee member

- **Lv Mingyang** (Southeast University, China / Main supervisor: Prof Wang Jianguo) 2016 – 2021  
*Thesis topic:*
- **Michelle Cheam Xiao Feng** (NUS / Main supervisor: A/P Ruzica Stamenovic) 2016 –  
*Thesis topic:* Aging-in-place and the older workers (to be confirmed)
- **Ya-Hsuan Wang** (NUS / Main supervisor: Prof Stephen Lau) 2015 –  
*Thesis topic:* Reinventing an ecological assessment framework for urban communities in Asia
- **Zi Li** (NUS / NUS Research Scholarship / Main supervisor: Prof Heng Chye Kiang) 2013 – 2018  
*Thesis topic:* Creating China's new urban and rural relationship: E-commerce service in rural transformation
- **Jingyuan Zhang** (NUS / NUS Research Scholarship / Main supervisor: Prof Tan Puay Yok) 2013 – 2018  
*Thesis topic:* Assessment of park distribution and accessibility in Singapore



## TEACHING

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### Education Innovation & Leadership (Selected)

- **NUS-Tsinghua Design Research Studio** 2017 - Present  
*Activity 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, Master of Arts in Urban Design (MAUD) Programme, NUS** 2021-2022  
*Activity type:* Postgraduate 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  
*Activity 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.
  
- **Challenge for Urban & Built Environment (CUBE) workshop** 2017 - Present  
*Activity 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.
  
- **NUS-Beijing University of Civil Engineering and Architecture (BUAEC) Workshop** 2018  
*Activity 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.
  
- **International Forum of Urbanism (IFoU) Winter School** 2015  
*Activity 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.

### Modules Developed & Taught at NUS (Selected)

- **Critique of Contemporary Urban Design** Class size: 25-30  
A core module for Master of Arts in Urban Design (MAUD) programme developed and taught in close collaborations with industry partners including Urban Redevelopment Authority (URA), DP Architects, AECOM, CPG Corporation, Jurong Town Council (JTC), Participate in Design (PID), etc.
  
- **Urban Design Studio** Class size: 9-10  
A core module for Master of Arts in Urban Design (MAUD) programme developed as part of the research project, NUS-Tsinghua Design Research Initiative: Sharing Cities and funded by Ng Teng Fong Charitable Foundation.
  
- **Urban Design Theory and Praxis** Class size: 100-120  
A core theory modules for Master of Architecture (M.Arch) programme developed to provide an overview of urban design and planning with a special focus on Asian cities.
  
- **M.Arch Thesis** Class size: 4-5  
The core design module of Master of Architecture (M.Arch) programme. Students under my supervision received Singapore Institute of Architects Medals (best graduate student in the course of M.Arch), Board of Architects (BOA) Prize and Medal, AEDAS Medal and Prize in Architectural Design Thesis, etc.
  
- **Dissertation** Class size: 4-5  
A core module of Master of Architecture (M.Arch) programme and Master of Arts in Urban Design (MAUD) programme. I also served as the module coordinator to organise all activities for both programmes.
  
- **Research Methodology** Class size: 25-30  
A compulsory module for both Master of Architecture and PhD programme