

CV - Ying Jin

Department of Architecture, University of Cambridge

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Education and Career

- 2018- Reader in Architecture and Urbanism, University of Cambridge
- 2018- Visiting Fellow, Bennett Institute for Public Policy, University of Cambridge
- 2017- Director, Martin Centre for Architectural and Urban Studies (Martin Centre is the Research Wing of Department of Architecture, University of Cambridge)
- 2017- Chair of the Research Committee, Faculty of Architecture and History of Art
- 2017- Chair of Examiners, MPhil Programme in Architecture & Urban Design (ARB/RIBA Part II)
- 2016- Exam Moderator, Architect's Registration Board (ARB)/RIBA Part III Programme
- 2016- Member of University of Cambridge Environmental Sustainability Strategy Committee (appointment by the General Board)
- 2015-17 Director of Graduate Education, Department of Architecture
- 2015-17 Member of the Graduate Education Committee, School for Arts and Humanities
- 2015-17 Co-Director, MPhil Programme in Architecture & Urban Studies (One-year course)
- 2014-18 University Senior Lecturer, University of Cambridge
- 2013- Leader of the Cities and Transport Research Group, Martin Centre for Architectural and Urban Studies
- 2011- Member of the Faculty Board and Degree Committee of Architecture and History of Art
- 2009- Fellow and Director of Studies in Architecture, Robinson College, Cambridge
- 2008-14 University Lecturer, University of Cambridge
- 2001-08 Associate Director then Technical Director, WSP Group plc, UK
- 1992-01 Senior Consultant then Associate Director, ME&P Ltd, UK
- 1991 PhD, Department of Architecture, University of Cambridge
- 1990-92 Research Fellow, Martin Centre for Architectural and Urban Studies
- 1984-85 Advanced English Language Course, Beijing Language Institute
- 1983 Bachelor of Architecture, School of Architecture, Tsinghua University, Beijing, China

Leadership in research projects

- 2018- Principal Investigator (PI) for EPSRC Centre for Digitally Built Britain project – A new digital interface for interdisciplinary city design
- 2018- Senior Advisor for the Urban Spatial Modelling and Decision-Support System Project at the Beijing Advanced Innovation Centre for Future Urban Design, Beijing Municipal Science and Technology Commission
- 2018- Senior Advisor for the Big Data, Land Use Development and Commuting Study for the Beijing District Governments, Beijing Municipality
- 2017- Executive Committee Member and Lead Investigator for city-scale research at the £22m EPSRC Centre for Smart Infrastructure and Construction (CSIC)
- 2017- PI, Alternative growth scenarios for the Combined Authority of Cambridgeshire and Peterborough, funded by the Combined Authority and Cambridge Ahead
- 2017- Co-Investigator (Co-I) and Spatial Modelling Lead for the Digital Cities for Change (DC2) Project, funded by the Arup Foundation
- 2016- PI, Alternative growth scenarios of the Cambridge city region to 2051 (Cambridge Futures Phase 3), funded by local business group Cambridge Ahead
- 2016-17 Overseas PI for Beijing Municipality Advisory Project 'Big Data and Urban Spatial Equilibrium Modelling for the Tongzhou Municipal Sub-centre', Beijing Municipality
- 2016-17 PI, Spatial Economic Data Analyses for Greater Cambridge-Greater Peterborough (GCGP) Local Enterprise Partnership (LEP), funded by GCGP-LEP
- 2016-17 PI, EPSRC research project Urban Poverty in China
- 2016-17 PI, Transport Research Innovation Grant project 'Novel applications of structural equation models for car ownership and travel choice forecasting', funded by UK Department for Transport

- 2016-18 Co-I for Smart Design – a research project funded by the Cambridge-UC Berkeley-National University of Singapore Global Alliance
- 2016- Co-I, EPSRC Managing Air Quality in Green Inner Cities (MAGIC)
- 2011- Co-I, EPSRC Centre for Smart Infrastructure and Construction
- 2011-16 Co-I, Tsinghua-Cambridge-MIT Low Carbon University Alliance Project ‘Low Carbon Urban Design: from Policy to Implementation’

Teaching

- 2018 Overall Lead of the Cambridge-UC Berkeley Graduate Urban Design Charrette 2018
- 2017 Cambridge Lead of the Cambridge-UC Berkeley Graduate Urban Design Charrette 2017
- 2015- Lecturer for the joint MPhil core course seminar ‘Managing Urban Change’ (for all three MPhil courses at Architecture with graduate students also attending from Depts of Engineering, Geography, Anthropology and Economics)
- 2015- Lecturer for the urban modelling and analytics seminar for the science and technology stream of the MPhil students
- 2014 Cambridge Lead of the MIT-Tsinghua-Cambridge Graduate Urban Design Studio 2014
- 2012 Co-lead of the Northwest Cambridge (Eddington) Urban Design Charrette
- 2010-14 Lecturer for the joint MPhil core course ‘Urban Planning and Design’ (for all three MPhil courses at Architecture with graduate students also attending from Dept of Engineering)
- 2010-14 Lecturer for the urban analytics seminar for the science and technology stream of the MPhil students
- 2009- Lecturer for the core course of Tripos Part 1B ‘Urban Planning and Design’ and of Tripos Part II ‘Current Topics in Urbanism’

Awards won by graduate students and post-docs for major projects under my supervision

- 2018 Lincoln Institute of Land Policy C Lowell Harriss Dissertation Fellowship (T Yang)
- 2017 Alan Turing Institute Azure for Research Award (T Hillel)
- 2016 Best Paper Award, International Conference on Smart Infrastructure & Construction (X Rong)
- 2015 Best Paper Award, 15th International Conference on Computational Science and Its Applications (A Hagen-Zanker)
- 2014 The Cambridge Future Cities Fellowship Prize, Cambridge (M Ma)

Major editorial and convening roles

- 2013- Chair of Working Group for ‘Traffic in Towns: the Next 50 Years’, a continuous collaborative online compendium project by scholars from Cambridge, MIT, Imperial College, Tsinghua University and IIT Delhi.
- 2013 Guest editor, Special Issue on City Region-Scale Modelling in a leading planning, design and geography journal Environmental and Planning B
- 2013 Guest editor, Special Issue on Innovations in Applied Urban Modelling in a leading geographic information systems (GIS) journal Transactions in GIS
- 2011- Lead convenor, annual International Symposia on Applied Urban Modelling
- 2010 Guest Editor for Special Issue “Perspectives of the world’s city regions”, The Architectural Journal of China.
- 2006 Founding member of editorial board, Journal of Urban and Regional Planning

Advisory roles in the wider world

- 2018- Member of the Technical Board, Cambridgeshire and Peterborough Independent Economic Review (Lead in land use and transport modelling)
- 2017- Expert advice for Government’s Chief Scientist’s Foresight Programme ‘Future of Mobility’
- 2016- Member of the Academic Board, Institute of Urban Spatial Culture and Science, Department of Architecture, Shanghai Jiao Tong University
- 2016- ESRC Peer Review College member
- 2016- Lead Advisor on big data analytics and advanced urban modelling applications for City Planning Institute and Beijing Institute of Architectural Design

- 2015-17 Major Research Project Assessor and Rapporteur for European Commission Directorate-General for Communications Networks, Content & Technology (DG CONNECT) for the INSIGHT project (Innovative Policy Modelling and Governance Tools for Post-Crisis Urban Development)
- 2015- International Organisation for Standardisation – Member of ISO Technical Committee AHC02 (transportation) and AHC03 (information sharing)
- 2015- EPSRC Peer Review College member
- 2014- External expert to UK Departments for Transport on land use modelling and economic and environmental assessment
- 2013- Steering Group member for the Publicly Available Specifications (PAS) for technical standards for cities & infrastructure at British Standards Institution

Notable recent publications

- Cervero, R, Y Jin and S Denman (2018, forthcoming). Network design, built environment and bicycle commuting: A study of small and medium-sized cities in the UK. *Transport Policy*.
- Hillel, T, M Bierlaire, M Elshafie and Y Jin (2018; forthcoming). Validation of probability classifiers. 18th Swiss Transport Research Conference, Monte Verita.
- Hillel, T, M Elshafie and Y Jin (2018; forthcoming). Recreating passenger mode choice-sets for transport simulation. *Journal of Smart Infrastructure and Construction*.
- Ma, M and Y Jin (2018; forthcoming). Economic impacts of alternative greenspace configurations in fast growing cities – the case of Greater Beijing. *Urban Studies*.
- Jin, Y, K Jahanshahi, L Wan and X Rong (2018). Novel applications of structural equation models for car ownership and travel choice forecasting. Report funded by the UK Department for Transport T-TRIG Grant. Department for Transport, London.
- Jin, Y, S Denman, D Deng, X Rong, M Ma, L Wan, Q Mao, L Z, Y Long (2017). Environmental Impacts of Transformative Land Use and Transport Developments in the Greater Beijing Region: Insights from a New Dynamic Spatial Equilibrium Model. *Transportation Research Part D: Transport and Environment*. 52: 548–561
(<https://www.sciencedirect.com/science/article/pii/S1361920915302510>).
- Wan, L and Y Jin (2017). Assessment of model validation outcomes of a new recursive spatial equilibrium model for the Greater Beijing. *Environment and Planning B: Urban Analytics and City Science* (<http://journals.sagepub.com/doi/abs/10.1177/2399808317732575>).
- Wu, P, Y Jin, Y Shi, H Shyu (2017). The impact of carbon emission costs on manufacturers' production and location decision. *International Journal of Production Economics* 193: 193–206.
(<https://www.sciencedirect.com/science/article/pii/S0925527317302074>).
- Hill, N, G Gibson, E Guidorzi, S Amaral, AK Parlikad and Y Jin (2017). Peer Reviewed Report for Scoping Study into Deriving Transport Benefits from Big Data and the Internet of Things in Smart Cities. Department for Transport, London.
- Martani, C, S Tent, S Acikgoz, K Soga, D Beain and Y Jin (2017). Pedestrian monitoring techniques for crowd-flow prediction. *Journal of Smart Infrastructure and Construction*.
<http://dx.doi.org/10.1680/jsmic.17.00001>.
- Jahanshahi, K and Y Jin (2017). Mapping interdependencies surrounding car ownership and travel choices in Britain through integrating structural equation modelling with latent class analysis, Full paper peer reviewed and accepted (18-06746) the US Transport Research Board (TRB) for its Annual Meeting.
- Martani, C, Y Jin, K Soga and S Scholtes (2016). Design with uncertainty: the role of future options for infrastructure integration. *Computer-Aided Civil and Infrastructure Engineering (CACAI E)*
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/mice.12214>.
- Jahanshahi, K and Y Jin (2016). Trendbreaking Influences of Built Form on Travel in UK Cities: Evidence from New Quantifications of Within- and Between-Built-Form Variations. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2564.
(trid.trb.org/view/2016/C/1393764/DoI:10.3141/2564-04).
- Hillel, T, P Guthrie, M Elshafie and Y. Jin (2016). Assessing the discrepancies between recorded and commonly assumed journey times in London. *Proceedings of the International Conference on Smart Infrastructure and Construction*. Institute of Civil Engineers, London.

- Jahanshashi, K, Y Jin and IN Williams (2015). Direct and indirect influences on employed adults' travel in the UK: New insights from the National Travel Survey data 2002–2010. *Transportation Research Part A: Policy and Practice*, Vol 80, pp288-306. (<http://www.sciencedirect.com/science/article/pii/S096585641500227X>; commonly recognised as the top transportation research journal).
- Hagen-Zanker, A and Y Jin (2015). Adaptive zoning for efficient transport modelling in urban models. 15th International Conference on Computational Science and Its Applications (ICCSA 2015). Banff, AB, Canada, June 22–25. Best Paper Award. (Published as Gervasi, O, B Murgante, S Misra, ML Gavrilova, AMAC Rocha, C Torre, D Taniar and BO Apduhan (eds.) (2015). *Computational Science and Its Applications – ICCSA 2015 Proceedings Part III*, Springer, Heidelberg, pp673-687.
- Deng, DB, S Denman, V Zachariadis and Y Jin, (2015). Estimating traffic delays and network speeds from low frequency GPS taxis traces for urban transport modelling. *European Journal of Transport and Infrastructure Research*, 15 (Smart Cities special issue), 639-661 see http://www.tbm.tudelft.nl/fileadmin/Faculteit/TBM/Onderzoek/EJTIR/Back_issues/15.4/2015_04b_01.pdf.
- Rong, X., Jin, Y., & Long, Y (2015). Understanding Beijing's Urban Land Use Development 2004-2013 through online administrative data sources. *Recent Developments in Chinese Urban Planning*. Springer International Publishing, 2015: 183-217
- Jin, Y, RG Bullock, R Yu, N Zhou, J Nan, M Gao, Z Xu, C Guo, L Shi (2014). Regional Economic Impact Analysis of High Speed Rail in China: main report and step by step guide for regional impact assessment. The World Bank. http://www.worldbank.org/content/dam/Worldbank/document/EAP/China/high_speed_rail-%20in-china-en.pdf.
- Jin, Y, RG Bullock and W Fang (2014). Spatial proximity and productivity in an emerging economy: econometric findings from Guangdong Province, People's Republic of China. *Regional Economic Impact Analysis of High Speed Rail in China Working Paper*. The World Bank. <https://openknowledge.worldbank.org/handle/10986/19989> (Appendix to the report above).
- Jin Y, M Echenique and A Hargreaves (2013). A recursive spatial equilibrium model for planning large-scale urban change. *Environment and Planning B: Planning and Design* (Advance online publication, doi:10.1068/b39134).