CV - Ying Jin
Department of Architecture, University of Cambridge

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Education and Career

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-	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-	Overseas PI 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-	Overseas PI 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 (DC^2) 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 (CACAIE) https://onlinelibrary.wiley.com/doi/pdf/10.1111/mice.12214.

Jahanshashi, 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.