Curriculum Vitae

Dr Jing Yao (BSc, MSc, MSc (Eng.), PhD)

Professor in Urban Analytics (Lead of Urban Analytics Subject Group)

Urban Analytics Subject Group, Division of Urban Studies and Social Policy, School of Social & Political Sciences, University of Glasgow

Urban Big Data Centre (UBDC), University of Glasgow

Contact: 7 Lilybank Gardens

University of Glasgow Glasgow, G12 8RZ, UK Tel: +44 (0)1413302368

Email: Jing.Yao@glasgow.ac.uk

Web page: http://www.gla.ac.uk/schools/socialpolitical/staff/jingyao/

Google Scholar: <a href="https://scholar.google.com/citations?user="https://scholar.google.com/citations.user="

Education

2012. 12	PhD in Geography	Arizona State University, USA
2012. 05	M.S. in Industrial Engineering	Arizona State University, USA
2005. 05	M.S. in Geography	Nanjing University, China
2002. 05	B.S. (Honours) in Geography	Nanjing University, China

Academic Appointments

2024.8 - present	Professor	University of Glasgow, UK
2019.8 - 2024.7	Senior Lecturer	University of Glasgow, UK
2014.10 - 2019.7	Lecturer	University of Glasgow, UK
2013.6 - 2014.9	Research Fellow	University of St Andrews, UK
2013.1- 2013.5	Postdoctoral Associate	Arizona State University, USA
2012.8 - 2012.12	Teaching Assistant	Arizona State University, USA
2009.8 - 2012.8	Research Assistant	Arizona State University, USA
2008.5 - 2009.8	Lecturer	Hohai University, China
2005.6 - 2008.5	Tutor	Hohai University, China

Affiliations

2022 - 2026 External Examiner, Department of Civil, Environmental and Geomatic Engineering, University College London

Administrative Appointments

University of Glasgow, UK

2024 - present	Lead of Urban Analytics Subject Group
2023 - 2024	Deputy Head of Urban Studies
2018 - 2019	MSc Urban Analytics program convener
2017 - 2024	Nankai undergraduate study abroad program convenor
2015 - 2017	Honours convenor
2015 - 2017	Exam Officer
2015 - 2017	International/Erasmus exchange coordinator
2016 - present	Advisor of Studies

Editorial Appointments

2025 – present	Editorial Board, Computers, Environment and Urban Systems
2025 - present	Editorial Board, Applied Spatial Analysis and Policy
2024 – present	Editorial Board, Geomatica
2022 – present	Editorial Board, Journal of Geodesy and Geoinformation Science
2021 – present	Editorial Board, Transactions in Urban Data, Science, and Technology
2020 – present	Editorial Board, International Journal of Geographical Information
	Science
Themed Issue	
2022	Guest Editor, International Journal of Applied Earth Observation and

Geoinformation - Recent Advances in Geocomputation and GeoAl for

Mapping (with Y. Song, M. Kalacska, M. Gašparović, and N. Najibi)

Teaching and Research Interests

Geographic information science; spatial optimization; spatial statistics; health geography; urban and regional planning and development; sustainable urban development; spatial disparities in public services; location modelling; Geospatial artificial intelligence.

Awards and Fellowships

2017	Fellow of the Higher Education Academy (FHEA), UK.
2012	Chinese Government Award for Outstanding Self-financed
	Students Abroad, China Scholarship Council, \$6,000.
2009	University Graduate Fellowship, Arizona State University, USA.

Grants

2023-2025	A Big Data Approach to Remotely Tracking Global Rangeland Condition Changes. PI. The Royal Society, £11,970.
2023	Internal Funding for NERC Supporting Interdisciplinarity in Discovery Science. PI. University of Glasgow, £8,791.
2021-2023	Towards a Healthy Urban Environment: Post-pandemic Urban Public Space Planning, Design and Management. PI. The Royal Society of Edinburgh, £9,800.
2019-2024	<i>Urban Big Data Centre</i> . Co-I (PI: Prof. Nick Bailey). Economic and Social Research Council.
2017-2021	GCRF Centre for Sustainable, Healthy, and Learning Cities and Neighbourhoods (SHLC). Co-I (PI: Prof. Ya Ping Wang). Global Challenges Research Fund (GCRF) Research Councils UK Collective Fund, £7,105,262.
2017-2019	EuroGEOSS-Hub: the European approach to Data Hub for GEOSS. Co-I. (PI: François ROBIDA, Geological and Mining Research Bureau Joint Research Center, European). Horizon 2020 Research and Innovation Framework Programme. European Commission.
2016	Postdoctoral and Early Career Researcher Exchanges Funds. Scottish Alliance for Geoscience, Environment and Society, £2,500.
2015-2018	The Re-Making of Chinese Urban Neighborhoods: Socio-Spatial Transformation and Access to Public Services. Co-I (PI: Prof. Ya Ping Wang). Economic and Social Research Council and National Natural Science Foundation of China: UK-China Research and Innovation Partnership Fund (Newton Fund), £606,945.
2015	Glasgow-Nankai Research Exchange Grant. University of Glasgow, £1,500.
2013-2015	Spatial Optimization Approaches for Solving the Continuous multi-Weber Problem. PI. National Natural Science Foundation of China, ¥230,000.

2013-2015 Continuous Geographic Physical Process Model and its Integration with GIS. Co-I (PI: Dr. Xiaoxiang Zhang). National Natural Science Foundation of China, ¥250,000.

Publications

Edited Conference Series

Heppenstall, A., Wang, M., Demsar, U., Lemmens, R. and **Yao, J.** (Eds.) (2024) 27th AGILE Conference on Geographic Information Science "Geographic Information Science for a Sustainable Future". AGILE: GIScience Series.

Book Chapters

- **Yao, J.**, & Murray, A. T. (2020). A spatial optimization approach for solving a multifacility location problem with continuously distributed demand. In: Thill, J.-C. (ed.) *Innovations in Urban and Regional Systems* Springer, pp. 113-135. ISBN 9783030436926.
- Yao J. 2009. Chapter 9 Application of GIS in the Management of Flood. In L. Kang and X. Zhang (ed.), Principles and Applications of Geographical Information Systems (in Chinese). China Water & Power Press, pp. 143-156.
- Michael Zeiler, *Modeling Our World: The ESRI® Guide to Geodatabase Design*, translated by X. Zhang, F. Zhang, & **J. YAO** et al., Posts & Telecom press, 2004, 200pp. (in Chinese) (English Version: Michael Zeiler, *Modeling Our World: The ESRI® Guide to Geodatabase Design*, ESRI Press, 1999, 200pp).

Peer-reviewed Journal Articles

- Chen, C., Feng, X., **Yao, J.**, & Xiong, X. (2025). Perceived leisure service benefits of periurban community green Spaces: Impact of visual environment during day and night. *Land Scape and Urban Planning*, 259, 105338.
- Chen, Y., **Yao, J.**, Wang, S., Lai, Z., Wu, L., & Dong, G. (2025). Location optimization of urban fire stations considering the variations in fire service demands: a biobjective coverage model. *International Journal of Digital Earth*, 18(1), 2454386.
- Zhang, H., Dong, G., Li, B., Xie, Z., Miao, C., Yang, F., ... **Yao, J.**, & Li, X. (2024). Developing an annual global Sub-National scale economic data from 1992 to 2021 using nighttime lights and deep learning. *International Journal of Applied Earth Observation and Geoinformation*, 133, 104086.
- Liu, Y., Sun, T., **Yao, J.**, Wang, Y., Yang, H., & Dai, T. (2024). Did COVID-19 discriminate in the global South? Revealing heterogeneity of urban households' livelihood resilience based on evidence from Bangladesh, China, India and Philippines. *Journal of Urban Management*, 13(4), 694-704.
- Xie, Z., Game, E. T., Phinn, S. R., Adams, M. P., Bayarjargal, Y., Pannell, D. J., ... **Yao, J.**, & McDonald-Madden, E. (2024). A scalable big data approach for remotely tracking rangeland conditions. *Communications Earth & Environment*, 5(1), 349.

- Luo, W., Yao, J., Mitchell, R., Zhang, X., & Li, W. (2024). Location optimization of emergency medical services: Considering joint service coverage of ambulances and emergency centers. *Environment and Planning B: Urban Analytics and City Science*. 23998083241253108.
- He, Z., Wang, X., Liang, X., Wu, L., & **Yao**, J. (2024). Integrating spatiotemporal coevolution patterns of land types with cellular automata to enhance the reliability of land use projections. *International Journal of Geographical Information Science*, 1-25. (doi: 10.1080/13658816.2024.2314575)
- Song, Y., Kalacska, M., Gašparović, M., **Yao, J.** & Najibi, N., (2023). Advances in geocomputation and geospatial artificial intelligence (GeoAI) for mapping. *International Journal of Applied Earth Observation and Geoinformation*. 120, 103300.
- **Yao, J.**, Zhang, X., Luo, W., Liu, C., & Ren, L. (2022). Applications of Stacking/Blending ensemble learning approaches for evaluating flash flood susceptibility. *International Journal of Applied Earth Observation and Geoinformation*, 112, 102932.
- Luo, W., Yao, J., Mitchell, R., Zhang, X., & Li, W. (2022). Locating emergency medical services to reduce urban-rural inequalities. *Socio-Economic Planning Sciences*, 84, 101416.
- Colbert, J., Sila-Nowicka, K., & **Yao**, **J.** (2022). Driving forces of population change following the Canterbury Earthquake Sequence, New Zealand: A multiscale geographically weighted regression approach. *Population, Space and Place*, 28(8), e2583.
- Luo, W., Chen, C., Li, H., Hou, Y., Xia, Y., Liu, J., ... & **Yao**, **J.** (2022). Residential open space and the perception of health benefits: How much is the public willing to pay?. *Journal of Environmental Management*, 316, 115273.
- Chen, C., Li, H., Luo, W., Xie, J., **Yao, J.**, Wu, L., & Xia, Y. (2022). Predicting the effect of street environment on residents' mood states in large urban areas using machine learning and street view images. *Science of The Total Environment*, 816, 151605.
- Li, H., Luo, W., Hou, Y., Xia, Y., **Yao, J.**, Kang, N., ... & Chen, C. (2021). Factors Affecting Perceived Health Benefits and Use Behaviors in Urban Green Spaces During the COVID-19 Pandemic in Southern China Megacities. *Frontiers in Public Health*, 9, 759444.
- Zhang, X., **Yao**, **J.**, Sila-Nowicka, K., & Song, C. (2021). Geographic concentration of industries in Jiangsu, China: a spatial point pattern analysis using microgeographic data. *The Annals of Regional Science*, 66(2), 439-461.
- Zhang, X., **Yao, J.**, Wang, J., & Sila-Nowicka, K. (2020). Changes of forestland in China's coastal areas (1996-2015): Regional variations and driving forces. *Land Use Policy*, 99, 105018.

- Luo, W., Yao, J., Mitchell, R., & Zhang, X. (2020). Spatiotemporal access to emergency medical services in Wuhan, China: accounting for scene and transport time intervals. *International Journal of Health Geographics*, 19(1), 1-14.
- Yuan, Q., Zhou, K., & **Yao, J.** (2020). A new measure of wind power variability with implications for the optimal sizing of standalone wind power systems. *Renewable Energy*, 150, 538-549.
- Zhang, X., **Yao, J.**, Sila-Nowicka, K., & Jin, Y. (2020). Urban fire dynamics and its association with urban growth: evidence from Nanjing, China. ISPRS *International Journal of Geo-Information*, 9(4), 218.
- Jin, Y., Liu, X., Yao, J., Zhang, X., & Zhang, H. (2020). Mapping the annual dynamics of cultivated land in typical area of the Middle-lower Yangtze plain using long time-series of Landsat images based on Google Earth Engine. *International Journal of Remote Sensing*, 41(4), 1625-1644.
- **Yao, J.,** Murray, A. T., Wang, J., & Zhang, X. (2019). Evaluation and development of sustainable urban land use plans through spatial optimization. *Transactions in GIS*. 23, 705-725.
- **Yao, J.**, Zhang, X., & Murray, A. T. (2019). Location Optimization of Urban Fire Stations: Access and Service Coverage. *Computers, Environment and Urban Systems*, 73, 184-190.
- **Yao, J.**, Wong, D. W.S., Bailey, N., & Minton, J. (2019). *Tijdschrift voor Economische en Sociale Geografie*, 110(3), 235-250.
- **Yao, J.**, & Agadjanian, V. (2018). Bypassing health facilities in rural Mozambique: spatial, institutional, and individual determinants. *BMC Health Services Research*, 18(1), 1006.
- **Yao, J.**, Zhang, X., & Murray, A. T. (2018). Spatial Optimization for Land-use Allocation: Accounting for Sustainability Concerns. *International Regional Science Review*, 41(6), 579-600.
- Zhang, X., **Yao**, J. & Sila-Nowicka, K. (2018). Exploring spatiotemporal dynamics of urban fires: A case of Nanjing, China. *ISPRS International Journal of Geo-Information*, 7(1), 7.
- **Yao, J.**, & Fotheringham, A. S. (2016). Local spatiotemporal modeling of house prices: a mixed model approach. *The Professional Geographer*, 68(2), 189-201.
- Agadjanian, V., **Yao, J.**, & Hayford, S. R. (2016). Place, Time and Experience: Barriers to Universalization of Institutional Child Delivery in Rural Mozambique. *International Perspectives on Sexual and Reproductive Health*, 42(1), 21-31.
- Agadjanian, V., Hayford, S. R., Luz, L., & **Yao, J.** (2015). Bridging user and provider perspectives: Family planning access and utilization in rural Mozambique. *International Journal of Gynecology & Obstetrics*, 130, E47-E51.

- Fotheringham, A. S., Crespo, R., & **Yao**, **J.** (2015). Exploring, modelling and predicting spatiotemporal variations in house prices. *The Annals of Regional Science*, 54(2), 417-436.
- Fotheringham, A. S., Crespo, R., & Yao, J. (2015). Geographical and temporal weighted regression (GTWR). *Geographical Analysis*, 47(4), 431-452.
- **Yao, J.**, Agadjanian, V., & Murray, A. T. (2014). Spatial and social inequities in HIV testing utilization in the context of rapid scale-up of HIV/AIDS services in rural Mozambique. *Health & Place*, 28, 133-141.
- **Yao, J.**, & Murray, A. T. (2014). Locational effectiveness of clinics providing sexual and reproductive health services to women in rural Mozambique. *International Regional Science Review*, 37(2), 172-193.
- **Yao, J.**, & Murray, A. T. (2014). Serving regional demand in facility location. *Papers in Regional Science*, 93(3), 643-662.
- **Yao, J.**, Murray, A. T., & Agadjanian, V. (2013). A geographical perspective on access to sexual and reproductive health care for women in rural Africa. *Social Science & Medicine*, 96, 60-68.
- **Yao, J.**, & Murray, A. T. (2013). Continuous surface representation and approximation: spatial analytical implications. *International Journal of Geographical Information Science*, 27(5), 883-897.
- **Yao, J.**, Murray, A. T., Agadjanian, V., & Hayford, S. R. (2012). Geographic influences on sexual and reproductive health service utilization in rural Mozambique. *Applied Geography*, 32(2), 601-607.
- Cudnik, M. T., **Yao, J.**, Zive, D., Newgard, C., & Murray, A. T. (2012). Surrogate markers of transport distance for out-of-hospital cardiac arrest patients. *Prehospital Emergency Care*, 16(2), 266-272.

Courses Taught

2014-present, University of Glasgow, UK

Postgraduate

- Social Science Statistics I (course convener) (2014-2018)
- Social Science Statistics II (course convener) (2014-2018)
- Principles of Applications of GIS (course convener) (2018-now)
- Programming with GIS (course convener) (2020)
- Fundamental of Transport Studies (co-taught) (2015-2018)
- International Real Estate Analysis (co-taught) (2015)

Undergraduate

Researching the City: A Spatial Perspective (course convener)
 (2017-2023)

UBDC/SHLC	•	Introduction to R
training	•	Using R: Mapping Spatial Data
courses	•	Introduction to R for Spatial Analysis
	•	Introduction to R for Statistical Analysis

2014, University of St Andrews, UK

• Quantitative Methods in Geography (co-taught)

2012, Arizona State University, Arizona, USA.

• Geographic Information Science I (teaching assistant)

2005-2009, Hohai University, Nanjing, China.

- Undergraduate thesis advisor (number students: 6)
- Principles of Spatial Databases (course convener)
- Principles of Geographic Information Systems (course convener)
- Web-based Geographic Information Systems (course convener)

Supervision

PhD Students

2024-	Mr Haonan Lyu (lead supervisor), University of Glasgow
2024-	Mr Jiazhi Zhu (lead supervisor), University of Glasgow
2024-	Miss Xinyan Xian (second supervisor), University of Glasgow
2023-	Ms Huan Chen (lead supervisor), University of Glasgow
2023-	Mr Roland Shanks (second supervisor), University of Glasgow
2018-2022	Dr Weicong Luo (lead supervisor), "Measuring and Optimizing Accessibility to Emergency Medical Services". University of Glasgow (Assistant Professor, Huazhong Agricultural University, China)
2018-2019	Dr Yuhao Jin (1-year visiting student at University of Glasgow), "Bigdata Driven Spatial Analytics for Land-use Dynamics Analysis and Modelling". Sun Yat-sen University, China (Associate Professor, South China Agricultural University, China)

Master Students

I've supervised about 45 Master dissertations at University of Glasgow on a variety of topics including urban planning, real estate market and urban transport, among others.

Visiting Scholars

2024-2025 Dr Danxia Song, Central China Normal University, China

2024-2025	Dr Xiaojun Long, Guangdong University of Finance and Economics, China
2023-2024	Professor Ming Yu, Fujian University of Technology, China
2023-2024	Professor Zhanjun He, China University of Geosciences, China
2022-2023	Dr Qiuping Li, Sun Yat-sen University, China
2023	Dr Yunxia Liu, Nankai University, China
2020-2021	Professor Xiaoxiang Zhang, Hohai University, China
2016-2017	Dr Xuemei Bi, the Center of Earthquake Emergency Technical Support, Earthquake Administration of Jiangsu, China
2016	Professor Jing Wang, Wuhan University, China

Meetings and Conference Presentations

- Yao J., Z. Li, X. Zhang, C. Liu, L. Ren. A Comparison of Global and Local Statistical and Machine Learning Techniques in Estimating Flash Flood Susceptibility. The 12th International Conference on Geographic Information Science, Leeds, UK, September 12 – 15, 2023.
- **Yao J.**, Y.P. Wang, X. Zhang. Spatial Patterns of Urban Expansion in Chinese Cities. *The 29th International Cartographic Conference of the International Cartographic Association*, Tokyo, Japan, July 15 20, 2019.
- **Yao J.**, X. Zhang. A Spatial Optimization Approach for Vector-based Land Use Planning. *The 22nd Conference on Geo-information Science*, Limassol, Cyprus, June 17 20, 2019.
- **Yao J.**, A.T. Murray. Location Modeling to Support Sustainable Urban Land Use Planning. *International Symposium on Locational Decisions (ISOLDE) XIV*, Toronto, Ontario, Canada, July 9 14, 2017.
- **Yao J.**, X. Zhang. Location Optimization of Fire Stations: Trade-off between Accessibility and Service Coverage. *The Ninth International Conference on Geographic Information Science*, Montreal, Canada, September 27-30, 2016.
- **Yao J.**, X. Zhang. Spatial-Temporal Dynamics of Urban Fire Incidents: A Case Study of Nanjing, China. *The XXIII International Society for Photogrammetry and Remote Sensing (ISPRS) Congress*, Prague, Czech Republic, July 12-19, 2016.
- **Yao J.**, A.S. Fotheringham. A Framework for Geographically Weighted Analysis and a Supporting Python Library PyGWA. *Annual Meeting of the Association of American Geographers*, Chicago, IL, USA, April 21-25, 2015.
- **Yao J.**, A.S. Fotheringham. Local Spatiotemporal Modelling of House Prices: A Mixed Model Method. *The 61st North American Meetings of the Regional Science Association International*, Bethesda, Washington, D.C., USA, November 12-15, 2014. 6.

- **Yao J.**, A.T. Murray, and V. Agadjanjan. Geographical Access to Sexual and Reproductive Health Care for Women in Rural Mozambique. *Annual Meeting of the Association of American Geographers*, Los Angeles, CA, USA, April 9-13, 2013.
- **Yao J.**, A.T. Murray. Evaluation of Health Care Facility Locations: a Case Study in Rural Mozambique. *Western Regional Science Conference*, Santa Barbara, CA, USA, Feb 25 27, 2013.
- **Yao J.**, A.T. Murray. Assessment of Sexual and Reproductive Health Service Location in Rural Mozambique. *International Symposium on locational decisions (ISOLDE)*XII, Nagoya and Kyoto, Japan, July 19 24, 2012.
- **Yao J.**, A.T. Murray. Continuous Surface Representation and Approximation: Spatial Analytical Implications. *Annual Meeting of the Association of American Geographers*, New York, NY, USA, February 24-28, 2012.
- **Yao J.**, A.T. Murray. Heuristics for Solving Multi-Weber Problem Extensions. *North American Regional Science Conference*, Miami, FL, USA, November 9-12, 2011.
- **Yao J.**, A.T. Murray, V. Agadjanjan, S. Hayford. Exploratory Spatial Analysis of Sexual and Reproductive Health Services Utilization in Rural Mozambique. *Annual Meeting of the Association of American Geographers*, Seattle, WA, USA, April 12-16, 2011.
- **Yao J.**, A.T. Murray. Siting A Single Facility to Best Serve an Area. 2010 North American Regional Science Conference, Denver, CO, USA, November 10-13, 2010.
- **Yao J.**, A.T. Murray, S. Hayford, V. Agadjanjan, B. Cau. Regional Variability of Women's HIV/AIDS Risks: A Case Study of Gaza, Mozambique. *Annual Meeting of the Association of American Geographers*, Washington, D.C., USA, April 14-18, 2010.

Invited Talks

- 2023.12 *"Spatial Optimization in Urban and Regional Planning"*. Tianjin University, Tianjin, China (Online).
- 2023.12 "Spatial Optimization in Natural Resource Management" (Keynote). The 5th International Conference on Natural Resource Management and Public Policy, Huazhong Agricultural University, Wuhan, China (Online).
- 2022.12 "Reducing Emergency Medical Service Inequalities with Spatial Optimization". Sun Yat-Sen University, China (Online).
- 2022.05 "Locating Emergency Medical Service Stations to Reduce Urban-Rural Inequalities with Spatial Optimization". Sheffield Spatial Analysis Network, University of Sheffield, UK (Online).
- 2020.06 *"Applications of GIS in Public Health Management and Planning"*. Renmin University of China, China (Online).
- 2019.07 *"Urban Fire Dynamics and Location Optimization of Urban Fire Stations"*. University of Tohoku University, Sendai, Japan.

2019.07	"GIS Teaching in Higher Education: Cases in the USA and the UK". The 8th Teaching Workshop for National College Young Teachers of GIS, Hohai University, Nanjing, China.
2018.01	"Design and Development of Open-source Software for Spatial Analysis". Institute of Geographic Sciences and Natural Resources Research, Chinese Science Academy, China.
2017.06	"Optimisation Problems in Geographically Weighted Regression." School of Government, Peking University, China.
2016.05	"Spatiotemporal Analyses of Urban Fires and Optimizing Fire Station Locations: An Initial Study on Smart Fire Fighting." Department of Geography & Planning, University of Liverpool, UK.
2015.12	"Spatial Analysis and Urban Big Data in Agricultural Land Use Research." Beijing Agriculture and Forestry Academy of Sciences, Beijing, China.
2015.08	"Spatial Analysis and Urban Big Data Research in UK." the Institution of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, China.
2015.07	"Spatial Statistics in Social Sciences and the Challenges of Big Data." Zhou Enlai School of Government, Nankai University, Tianjin, China.
2014.12	"Applications of Spatial Analytics in National Geographic Conditions Monitoring." National Administration of Surveying, Mapping and Geoinformation, Beijing, China.

Invited Master Courses

2019.08	"Geographically Weighted Regression". University of Augsburg, Germany.
2017.06	"Using PySAL for Spatial Analysis". Hohai University, China.
2017.06	"Geographically Weighted Regression". Hohai University, China.
2014.03	"Geographically Weighted Regression using PyGWR" (with Prof. Stewart
	Fotheringham). Arizona State University, USA.

Software Development

2013-2014 PyGWR — A New Version GWR and Extension.

- A project led by Professor Stewart Fotheringham at Centre for Geoinformatics, University of St Andrews, UK.
- The only developer of PyGWR.
- A prototype was used in a short course for PhD students given by Professor Stewart Fotheringham and Dr Jing Yao (Lab Instructor) at Arizona State University, USA in March 2014.

2013-2014 Development of GWR4.0.8 and GWR 4.0.9.

- An international collaboration project organized by Tomoki Nakaya (Graduate School of Environmental Studies, Tohoku University, Japan), Martin Charlton, Paul Lewis, Chris Brunsdon (National Centre for Geocomputation, National University of Ireland, Ireland), Jing Yao (School of Social and Political Sciences, University of Glasgow) and Stewart Fotheringham (School of Geographical Sciences & Urban Planning, Arizona State University)
 (http://gwr.maynoothuniversity.ie/gwr4-software/).
- Developer and group member.

2010-2011 Development of GeoDaSpace and PySAL.

- Projects led by Professors Luc Anselin and Serge Rey at the GeoDa Center for Geospatial Analysis and Computation, Arizona State University, USA (https://spatial.uchicago.edu/geoda).
- Developer and group member.

Professional Services

PhD Examiner

2023	External	"Determinants of multidimensional child poverty in Pakistan: an empirical investigation using micro data" by Mr Afra Kanwal, University of Gujrat, Pakistan.
2021	External	"Measurement and determinants of horizontal inequalities in Pakistan: An empirical analysis using microdata" by Mr Faisal Munir, University of Gujrat, Pakistan.
2018	Internal	"Monitoring and Control of Transport Networks Using Parsimonious Models" by Ms Ruzanna Mat Jusoh, University of Glasgow, UK.
2018	External	"Error Propagation in Geographically Weighted Regression" by Mr Jaakko Madetoja, Aalto University, Finland.

Editorial Appointments (see above)

Grant Proposal Assessor

- National Natural Science Foundation of Chinese (China)
- Economic and Social Research Council (UK)
- Member of UKRI Talent Peer Review College (UK)
- Natural Science Foundation (USA)

Book Proposal Reviewer

• Routledge/Taylor & Francis Group (2024)

- CRC Press/Taylor and Francis Group (2022)
- SAGE Publications Ltd (2019)
- Springer (2015)

Journal Reviewer

Geographical Analysis Applied Geography

International Regional Science Review PLOS ONE

International Journal of Geographical International Journal of Applied Earth

Information Science Observation and Geoinformation

The Annals of Regional Science Spatial Economic Analysis

Transactions in GIS Social Science & Medicine

Computers, Environment and Urban International Journal of Health

Systems Geographics

Environment and Planning B: Urban Annals of the American Association of

Analytics and City Science Geographers

Health and Place Journal of Geographical Systems

Socio-Economic Planning Sciences Papers in Regional Science

Journal of Urban Planning and Journal of the Operational Research

Development Society

Land Use Policy Journal of Official Statistics

Geocarto International Habitat International

Cities BMJ Open

Landscape and Urban Planning Tropical Medicine & International Health

International Journal of Digital Earth

Professional Society Service

2022 - present Council Member and Co-secretary, Association of Geographic Information Laboratories in Europe (AGILE)

International Conference Organization

2025 GIScience 2025: The 13th International Conference on Geographic Information Science (Program Committee), Christchurch, New Zealand, August 26-29, 2025.

2025 GISTAM 2025: The 11th International Conference on Geographical Information Systems Theory, Applications and Management (Program Committee), Porto, Portugal, 1-3 April 2025.

2025	AGILE 2025: The 28th conference of the Association of Geographic Information Laboratories in Europe (Program Committee), Dresden, Germany, 10-13 June 2025.
2024	AGILE 2024: The 27th conference of the Association of Geographic Information Laboratories in Europe (General Chair), Glasgow, UK, 4-7 June 2024.
2023	GISRUK 2023: The GIS Research UK conference 2023 (Co-Chair of Early Career Workshop), Glasgow, UK, 19-21 April 2023.

Professional Society Membership

Since 2013	Scottish Alliance for Geoscience, Environment and Society
2010 - 2014	Regional Science Association International
2011 - 2013	Western Regional Science Association
Since 2009	Association of American Geographers

Updated in March 2025