

JUSTIN T. VAN DIJK

T +44 74 5312 1643

E j.t.vandijk@ucl.ac.uk

W www.mappingdutchman.com

 github.com/jtvandijk

 linkedin.com/in/jtvandijk

 0000-0001-5496-425X

Human geographer. Spatial data scientist. Lecturer. Interested in spatial inequalities and spatial justice, urban transport, big data applications in scarce data environments, and re-purposing administrative and commercial data for research purposes. Extensive experience in the domain of Geographic Information Systems, urban studies, and transport research. Possesses a wide skill set in the field of advanced spatial analysis, experienced with Python programming, R scripting, and PostgreSQL/PostGIS.

Present Appointment

2021 – Present **Lecturer**, University College London

Department of Geography. Lecturer in Social and Geographic Data Science. Contributing to the postgraduate modules *Principles of Spatial Analysis* and *Data, Politics and Society* as well as the undergraduate modules *Geocomputation* and *Geography in the Field II*. Undergraduate Admissions Tutor.

Visiting Appointments

2024 – Present **Non-Resident Senior Research Fellow**, United Nations University World Institute for Development Economics Research (UNU-WIDER)
Academic lead for the [SA-TIED](#) data workstream.

2022 – Present **Research Fellow**, Stellenbosch University
School for Data Science and Computational Thinking.

Previous Appointments

2020 – 2021 **Associate Lecturer**, University College London
Department of Geography. Associate Lecturer in Quantitative Social Science.

2018 – 2021 **Postdoctoral Research Associate**, University College London
Department of Geography. Research Associate in the Geospatial Analytics and Computing Research Group.

2014 – 2017 **Junior Lecturer**, Stellenbosch University
Department of Logistics. Part-time appointment.

2013 **Junior Lecturer**, Utrecht University
Department of Human Geography and Planning.

2012 **Teaching Assistant**, Stellenbosch University
Department of Logistics.

2009 – 2012 **Teaching Assistant**, Utrecht University
Department of Human Geography and Planning.

Education

2014 – 2017 **Doctor of Philosophy**, Stellenbosch University
Transport Economics. Dissertation title: “Designing Travel Behaviour Change interventions: A spatiotemporal perspective”.

2011 – 2013 **Master of Science**, Utrecht University. GPA 4.0. **Cum Laude**.
Human Geography and Planning. Dissertation title: “Towards spatial justice: The spatial equity effects of a toll road in Cape Town, South Africa”.

2007 – 2011 **Bachelor of Science**, Utrecht University. GPA 4.0.
Human Geography and Planning. Dissertation title: “Contemporary Orientalism? Representations of Islam and Muslims in the Dutch Press: a content analysis of ‘De Volkskrant’ and ‘De Telegraaf’, 2001-2010”.

Journal Articles

2024 Mavrogeni, M., **Van Dijk, J. T.**, and Longley, P. A. Interactional Geographies: Deriving flow patterns from GPS-enabled in-app mobile phone data. *Applied Geography*. Submitted for publication.

Van Dijk, J. T., Todd, J, and Lan, T. Leveraging digital footprints data for accurate estimation of the residential housing stock in the United Kingdom, 1997-2022. *Annals of GIS*. Accepted for publication. doi: [10.1080/19475683.2024.2360206](https://doi.org/10.1080/19475683.2024.2360206)

2023 Longley, P. A., Lan, T., and **Van Dijk, J. T.** Geography, ethnicity, genealogy and inter-generational social inequality in Great Britain. *Transactions of the Institute of British Geographers* 49(1): e12622. doi: [10.1111/tran.12622](https://doi.org/10.1111/tran.12622)

2021 Longley, P. A., **Van Dijk, J. T.**, and Lan, T. The geography of inter-generational social mobility in Britain. *Nature Communications* 12: 6050.
doi: [10.1038/s41467-021-26185-z](https://doi.org/10.1038/s41467-021-26185-z)

Van Dijk, J. T., Lansley, G., and Longley, P. A., Using linked consumer registers to estimate internal migration in the United Kingdom. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* 184(4): 1452-1474.
doi: [10.1111/rssa.12713](https://doi.org/10.1111/rssa.12713)

Lan, T., **Van Dijk, J. T.**, and Longley, P. A., Family names, city size distributions and residential differentiation in Great Britain, 1881-1901. *Urban Studies* 59(10): 2110-2128. doi: [10.1177/00420980211025721](https://doi.org/10.1177/00420980211025721)

- 2020 **Van Dijk, J. T.** and Longley, P. A. Interactive display of surname distributions in historic and contemporary Great Britain. *Journal of Maps* 16(1): 68-76. doi: [10.1080/17445647.2020.1746418](https://doi.org/10.1080/17445647.2020.1746418)
- Kandt, J., **Van Dijk, J. T.**, and Longley, P. A. Family name origins and inter-generational demographic change in Great Britain. *Annals of the American Association of Geographers*. 110(6): 1726-1742. doi: [10.1080/24694452.2020.1717328](https://doi.org/10.1080/24694452.2020.1717328)
- Engin, Z., **Van Dijk, J. T.**, Lan, T., Longley, P. A., Treleaven, P., Batty, M., and Penn, A. Data-driven urban management: Mapping the landscape. *Journal of Urban Management* 9(2): 140-150. doi: [10.1016/j.jum.2019.12.001](https://doi.org/10.1016/j.jum.2019.12.001)
- 2018 **Van Dijk, J. T.** Identifying activity-travel points from GPS-data with multiple moving windows. *Computers, Environment and Urban Systems* 70: 84-101. doi: [10.1016/j.compenv.urbsys.2018.02.004](https://doi.org/10.1016/j.compenv.urbsys.2018.02.004)
- 2017 **Van Dijk, J. T.** and Krygsman, S. C. Using GPS-based activity spaces and opportunity indicators for travel behaviour analysis. *Journal of Urban Technology* 25(2): 105-124. doi: [10.1080/10630732.2017.1400814](https://doi.org/10.1080/10630732.2017.1400814)
- Van Dijk, J. T.** and De Jong, T. Post-processing GPS tracks in reconstructing travelled routes in a GIS-environment: Network subset selection and attribute adjustment. *Annals of GIS* 23(3): 203-217. doi: [10.1080/19475683.2017.1340340](https://doi.org/10.1080/19475683.2017.1340340)
- 2015 Idahosa, L. O. and **Van Dijk, J. T.** Freedom for whom in South Africa? Inequality, unemployment and the elderly. *Development* 58(1): 96-102. doi: [10.1057/dev.2015.18](https://doi.org/10.1057/dev.2015.18)
- Van Dijk, J. T.**, Krygsman, S. C., and De Jong, T. Towards spatial justice: The spatial equity effects of a toll road in Cape Town, South Africa. *Journal of Transport and Land use* 8(3): 95-114. doi: [10.5198/jtlu.2015.555](https://doi.org/10.5198/jtlu.2015.555)
- Book Chapters**
- 2021 **Van Dijk, J. T.**, Lansley, G., and Longley, P. A., Using linked consumer and administrative data to model demographic changes in London's city fringe. In: Clarke, G., Birkin, M., and Stimson, B. (Eds.), *Applications of Big Data in Geography and Planning. An Essential Companion*, pp. 43-51. Cheltenham: Edward Elgar Publishing.
- 2013 Wolfensberger M., Dekker, M., **Van Dijk, J. T.**, Zubizarreta, J., Hait, C., Mann, C., and Lucas, C. Learning as salon: Honors International Collaboration. In: Mulvaney, M. K. and Klein, K. (Eds.), *Preparing Tomorrow's Global Leaders: Honors International Education*, pp. 75-84. Lincoln: National Collegiate Honors Council. NCHC Monograph Series.

Conference Proceedings

- 2024 Mavrogeni, M., Longley, P. A., and **Van Dijk, J. T.** Deriving flow patterns from GPS in-app mobile phone data. *Proceedings of the 32nd Conference of GIS Research UK (GISRUK)*. Leeds: University of Leeds. doi: [10.5281/zenodo.10897762](https://doi.org/10.5281/zenodo.10897762)
- 2023 Longley, P. A., **Van Dijk, J. T.**, and Chi, B. Linked Consumer Registers as data infrastructure for timely and inclusive monitoring of community characteristics. *International Journal of Population Data Science* 8(2). doi: [10.23889/ijpds.v8i2.2353](https://doi.org/10.23889/ijpds.v8i2.2353)
- Kimura, S., **Van Dijk, J. T.**, and Longley, P. A. The use of consumer data to explore geographic and social variations in online gambling. *Proceedings of the 31st Conference of GIS Research UK (GISRUK)*. Glasgow: University of Glasgow.
- Mavrogeni, M., Longley, P. A., and **Van Dijk, J. T.** The use of in-app data to drive geodemographic classification of activity patterns. *Proceedings of the 31st Conference of GIS Research UK (GISRUK)*. Glasgow: University of Glasgow.
- 2022 Kimura, S., Longley, P. A., and **Van Dijk, J. T.** Exploring the spatial disparities in gambling risk and vulnerability. *Proceedings of the 30th Conference of GIS Research UK (GISRUK)*. Liverpool: University of Liverpool.
doi: [10.5281/zenodo.6407146](https://doi.org/10.5281/zenodo.6407146)
Winner of the CASA Prize for Best Paper in Spatial Analysis
- Longley, P. A., **Van Dijk, J. T.**, and Lan, T. Linkage of historical GB Census data to present day population registers. *International Journal of Population Data Science* 7(3). doi: [10.23889/ijpds.v7i3.2002](https://doi.org/10.23889/ijpds.v7i3.2002)
- 2021 **Van Dijk, J. T.** and Longley, P. A. Developing a data infrastructure for bespoke demographic analysis. *Proceedings of the 29th Conference of GIS Research UK (GISRUK)*. Cardiff: Cardiff University.
doi: [10.5281/zenodo.4664749](https://doi.org/10.5281/zenodo.4664749)
- Chen, M., Chi, B., **Van Dijk, J. T.**, and Longley, P. A. The use of Linked Consumer Registers to understand social mobility and residential mobility. *Proceedings of the 29th Conference of GIS Research UK (GISRUK)*. Cardiff: Cardiff University. doi: [10.5281/zenodo.4665856](https://doi.org/10.5281/zenodo.4665856)
- Kuleszo, J., Coulter, R., **Van Dijk, J. T.**, and Longley, P. A. Linking consumer datasets to chart residential moves in private rental housing in England and Wales. *Proceedings of the 29th Conference of GIS Research UK (GISRUK)*. Cardiff: Cardiff University. doi: [10.5281/zenodo.4665818](https://doi.org/10.5281/zenodo.4665818)
- 2020 **Van Dijk, J. T.** and Longley, P. A. Platial geo-temporal demographics using family names. In: Westerholt, R. and Mocnick, F.-B. (Eds.), *Proceedings of the*

2nd International Symposium on Platial Information science (PLATIAL'19).
Warwick: Warwick University. 23-31. doi: [10.5281/zenodo.3628863](https://doi.org/10.5281/zenodo.3628863)

- 2019 **Van Dijk, J. T.**, Lansley, G., Lan, T., and Longley, P. A. Using the spatial analysis of family names to gain insight into demographic change. *Proceedings of the 27th Conference of GIS Research UK (GISRUK)*. Newcastle: Newcastle University.
- Lan, T., Lansley, G., **Van Dijk, J. T.**, and Longley, P. A. Geocoding historical census records in England and Wales. *Proceedings of the 27th Conference of GIS Research UK (GISRUK)*. Newcastle: Newcastle University.
- 2016 **Van Dijk, J. T.** and Krygsman, S. C. Mobile technologies for data collection in sub-Saharan Africa: An outlook to the future of mobility research. *#CelebrateGeography: Proceedings of the 11th Biennial Conference of the Society of South African Geographers (SSAG 2016)*. Stellenbosch: SunMedia. 180-189.
- 2015 **Van Dijk, J. T.** and Krygsman, S. C. Gathering individual travel data with GPS-enabled smartphones: A proof of concept study. *Proceedings of the 34th Southern African Transport Conference (SATC 2015)*. Pretoria: Southern Africa Transport Conference. 448-460.

Professional Publications

- 2010 **Van Dijk, J. T.** and De Jong, T. Medische voorzieningen in kaart. Bereikbaarheid medische voorzieningen in Bushbuckridge, Maruleng en Sekhukhune [Accessibility of Medical services in Bushbuckridge, Maruleng and Sekhukhune]. *Geografie* 19 (5): 18-20.

Authored Books

- 2017 **Van Dijk, J. T.** Designing Travel Behaviour Change Interventions: a spatiotemporal perspective [Ph.D. dissertation]. Stellenbosch: Stellenbosch University. Persistent URL: hdl.handle.net/10019.1/102809

Research and Travel Grants

- 2024 ESRC Ph.D. Studentship, UBEL DTP. Co-funded by Salad Money. "The real time geography of the UK cost of living crisis for low-income public sector workers."
£ 41,929 / 3.5 years (co-I, PI: P. A. Longley)
- 2023 Research Capital Equipment Fund. UCL Faculty of Social and Historical Sciences. "Social Data Science Research Platform." [UCL Internal Funding]
£ 460,177 (co-I, PI: L. Nesheim, co-Is: M. Altaweel, G. Jorayev, G. Conti, W. Cui, J. Granja, S. Hansen, H. Ku. J. Cheshire, M. Disney, M. Gibin, S. Law, P. A. Longley, A. Musah, N. Metternich, T. O'Grady, B. Lauderdale)

	ESRC Ph.D. Studentship, UBEL DTP. Co-funded by PDV Limited. "Lifestyles and geodemographic behaviours in inter-generational context." £ 60,584 / 3 years (PI, co-I: P. A. Longley)
2022	ESRC Ph.D. Studentship, UBEL DTP. Co-funded by Didobi Limited. "Real-time geodemographics for business and service planning." £ 57,984 / 3 years (co-I, PI: P. A. Longley)
2021	The British Academy Talent Development Award Scheme 2021 £ 9,919.47 / 1 year (PI, co-I: S. Law, A. Musah) Ref: TDA21\210069 ESRC Ph.D. Studentship, UBEL DTP. Co-funded by Gamble Aware. "Geographies of harmful gambling behaviour and their remediation". £ 57,761 / 3 years (PI, co-I: P. A. Longley)
2020	Frank Carter Travel Fund, University College London £ 550 (PI)
2016	Postgraduate travel grant, National Research Foundation South Africa ZAR 24,222 (PI)
2015	NRF-DST innovation scholarship, National Research Foundation and Department of Science and Technology South Africa ZAR 330,000 / 3 years (PI) Stellenbosch merit bursary, Stellenbosch University ZAR 50,000 / 2 years (PI)
2014	Scholarship award for full-time doctoral studies, Stellenbosch University ZAR 390,000 / 3 years (PI)

Created Research Datasets

2023	<i>Migration Model, 1997 – 2023</i> The Migration Model is a dataset that ascribes records pertaining to individuals that vacate a property to their most probable destination address, using a UK-wide population data set: the Linked Consumer Registers. Access to this dataset can be secured through the Consumer Data Research Centre (data.cdrc.ac.uk). <i>Note: supervised and managed the creation of the most recent version built by Dr James Todd.</i>
2023	<i>Linked Consumer Registers, 1997 – 2023</i> The Linked Consumer Registers are a dataset that contain the names and addresses for adults in the UK in annual snapshots from 1997 onwards to 2023. They are compiled from reported outputs from linking public versions of the electoral roll and consumer registers (supplied by value-added resellers). Access to this dataset can be secured through the Consumer Data Research Centre (data.cdrc.ac.uk). <i>Note: supervised and managed the creation of the most recent version built by Dr James Todd.</i>

Professional Development

2023 **UCL Arena for Lecturers on Probation (ALP)**, University College London
This course explores the relationships between student education and research and develops skills to teach confidently and effectively.

Teaching Experience

2021 – Present **Lecturing**, University College London
- GEOG0114: Principles of Spatial Analysis (PG) [2021 – Present]
Module contributions page: jtvandijk.github.io/GEOG0114
- GEOG0163: Data, Politics and Society (PG). *Module convenor*. [2021-2024]
Full module page: jtvandijk.github.io/GEOG0163
- GEOG0030: Geocomputation (UG). *Module convenor*. [2021 – Present]
Full module page: jtvandijk.github.io/GEOG0030
- GEOG0014: Geography in the Field II. [2021 – Present]
Module contributions page: jtvandijk.github.io/GEOG0014
- Dissertation supervision of Undergraduate students [2021 – Present]
- Dissertation supervision of Postgraduate students [2021 – Present]

2020 – 2021 **Lecturing**, University College London
- GEOG0114: Principles of Spatial Analysis (PG).
Module page: jtvandijk.github.io/GEOG0114_20202021
- GEOG0125: Advanced Topics in Social and Geographic Data Science. (PG). Module contribution page:
jtvandijk.github.io/GEOG0125_20202021
- POLS0008: Introduction to Quantitative Research Methods (UG).
Module contribution page: jtvandijk.github.io/POLS0008_20202021
- Dissertation supervision of Postgraduate students

2019 – Present **High-school Student Supervision**, Nuffield Foundation
Supervision of first-generation prospective university students as part of the annual Nuffield Future Researchers widening participation work experience programme. Number of supervisions to date: 5.

2019 **Seminar Series Organisation**, University College London
Co-organiser and speaker in the “Technical Tuesdays” Seminar Series on methods and techniques for quantitative researchers. Module material: github.com/jtvandijk/TechnicalTuesdays

2014 – 2017 **Lecturing**, Stellenbosch University
- Spatial Accessibility and Transport Network Analysis (PG)
- Secondary dissertation supervisor of PG students [2]

2013 **Lecturing**, Utrecht University
- Introduction to Human Geography and Planning (UG)

- Research Methods and Techniques (UG)
- Introduction to Geographic Information Systems (UG)
- Advanced Geographic Information Systems (UG, PG)
- Principal dissertation supervisor of PG students [3]

2012 **Teaching Assistant**, Stellenbosch University
 - Spatial Accessibility and Transport Network Analysis (PG)

2009 - 2012 **Teaching Assistant**, Utrecht University
 - Introduction to Geographic Information Systems (UG)
 - Advanced Geographic Information Systems (UG, PG)
 - Transport Geography (UG)
 - Honours College Geosciences (UG)

Ph.D. supervision

2024 - Present **Subsidiary Supervisor**, University College London
 Luc Wilson on the topic of "The real time geography of the UK cost of living crisis for low-income public sector workers.". Expected submission: September 2027.

2023 - Present **Subsidiary Supervisor**, University College London
 Michael Xiao on the topic of "Lifestyles and geodemographic behaviours in inter-generational context". Expected submission: September 2026.

2022 - Present **Subsidiary Supervisor**, University College London
 Mikaella Mavrogeni on the topic of "Real-time geodemographics for business and service planning". Expected submission: September 2025.

2021 - Present **Subsidiary Supervisor**, University College London
 Shunya Kimura on the topic of "Geographies of harmful gambling behaviour and their remediation". Expected submission: September 2024.

Ph.D. examination

2024 **M.Phil. examination**, University College London
 Nikki Tanu on the topic of "Digitising Historical Telephone Directories to Understand Innovation Diffusion and Historical Social Change in Britain, 1880-1951".

2023 **Ph.D. upgrade**, University College London
 Mikaella Mavrogeni on the topic of "Real-time geodemographics for business and service planning".

2022 **Ph.D. upgrade**, University College London
 Shunya Kimura on the topic of "Geographies of harmful gambling behaviour and their remediation".

- 2021 **Ph.D. upgrade**, University College London
Louise Sieg on the topic of "New Forms of Data and Geodemographics: Evaluation and regionalisation of big mobile phone datasets".
- 2020 **Ph.D. upgrade**, University College London
Jakub Wyszomierski on the topic of "Hybrid geodemographics and creation of the 2021 Output Area Classification".

Invited talks and Conference Paper Presentations

- 2024 "Micro-demographic modelling of age and community structure". 12th International Conference on Population Geographies. *Belfast, United Kingdom, July 2, 2024*. Presented by M. Gibin.
- 2023 "Linked Consumer Registers as data infrastructure for timely and inclusive monitoring of community characteristics". ADR UK Conference. *Birmingham, United Kingdom, November 15, 2023*. Presented by B. Chi.
- "Modelling residential mobility using electoral registers". Invited Research Seminar. Geographical research on spatial big data. *Tokyo, Japan, October 29, 2023*.
- "Trip diary reconstruction using GPS traces". Invited guest lecture Utrecht University Summer School on "Sense making of GPS data in a GIS environment". *Utrecht University, the Netherlands, July 4, 2023*.
- "DigitalFootprints Data". Invited Research Seminar. Graduate School of Economic and Management Sciences and School of Data Science and Computational Thinking, Stellenbosch University. *Stellenbosch, South Africa, April 13, 2023*.
- 2022 "Linkage of historical GB Census data to present day population registers". International Population Data Linkage Network Conference. *Edinburgh, United Kingdom, September 8, 2022*.
- "A more granular approach of the social outcome inequalities among different ethnic groups in Great Britain". The British Society for Population Studies Annual Conference. *Winchester, United Kingdom, September 6, 2022*. Presented by T. Lan.
- "Harder, better, faster, stronger. Exploring GPU-based analysis for social and geographic applications". Talent Development Award Induction Day. *The British Academy, United Kingdom, May 11, 2022*.
- "What's in a name? Visualising surname geographies in a GIS environment". International Spring School on Visualization (ISSonVis). *Palacký University Olomouc, Czech Republic, April 7, 2022*.

- "Harder, better, faster, stronger. Exploring GPU-based analysis for social and geographic applications". Human Geography Seminar Series Department of Geography. *University College London, United Kingdom, March 15, 2022.*
- 2021 "New data on equality, exclusion and social change in London and the UK". Levelling Up and London, London Research and Policy Partnership *London, United Kingdom, September 17, 2021.*
- "Developing a data infrastructure for bespoke demographic analysis". 29th Conference of GIS Research UK. *Cardiff, United Kingdom, September 14 – September 16, 2021.*
- 2020 "Applied Geoinformatics: Insights into human mobility patterns". Invited guest lecture Department of Physical Planning [online]. *School of Architecture and Planning New Delhi, India, October 29, 2020.*
- 2019 "Platial geo-temporal demographics using family names". 2nd International Symposium on Platial Information science. *Coventry, United Kingdom, September 5 – September 6, 2019.*
- "Using the spatial analysis of family names to gain insight into demographic change". 27th Conference of GIS Research UK. *Newcastle, United Kingdom, April 23 – April 26, 2019.*
- 2017 "Using GPS-enabled smartphones for Voluntary Travel Behaviour Change interventions". Invited guest lecture Utrecht University Summer School on "GPS data analysis". *Utrecht University, the Netherlands, July 12, 2017.*
- 2016 "Mobile data collection techniques in sub-Saharan Africa: An outlook to the future of transport research". 11th Biennial Conference of the Society of South African Geographers. *Stellenbosch, South Africa, September 25 – September 25, 2016.*
- "Designing a Voluntary Travel Behaviour Change Intervention: Smartphones and Space-Time Accessibility Analysis". Mobile Tartu 2016. *Tartu, Estonia, June 29 – July 1, 2016.*
- "GPS data analysis". Invited guest lecture Utrecht University in the module "Introduction to GIS". *Utrecht University, the Netherlands, February 18, 2016.*
- 2015 "GPS data analysis". Invited guest lecture Utrecht University in the module "Introduction to GIS". *Utrecht University, the Netherlands, November 25, 2015.*
- "Gathering individual travel data with GPS-enabled smartphones: A proof of concept study". 34th Southern African Transport Conference. *Pretoria, South Africa, 6 July – July 9, 2015.*

- 2014 "Twenty years of Freedom: The role of the Old Persons Grant in addressing unemployment and inequality in a young democracy". 12th Development Dialogue "Rethinking Democracy". *The Hague, the Netherlands, October 16 – October 17, 2014.*
- "Towards spatial justice: The spatial Equity Effects of a Toll Road in Cape Town, South Africa". World Symposium on Transport and Land Use. *Delft, the Netherlands, June 24 – June 27, 2014.*

Professional Societies

- 2021 – Present *Fellow of the Royal Geographical Society (with Institute of British Geographers)*
Committee member of the RGS-IBG GIScience Research Group.

Community Service and Engagement

- 2022 - Present *Department Management Team*
Member of the Department Management Team (UCL Geography).
- 2022 – Present *Undergraduate Admissions Tutor*
Undergraduate Admissions Tutor for the Undergraduate programmes in UCL geography.
- 2022 *Session organiser RGS-IBG Annual International Conference*
Organiser for two sessions in the RGS-IBG International Conference on "Dealing with uncertainty: Quality and Representation in the context of Big Data". *Newcastle, United Kingdom, August 29 – September 2, 2022.*
- 2021 – Present *Committee member RGS-IBG GIScience Research Group*
Organisation and promotion of the events of the RGS-IBG GIScience Research Group, including a webinar series and RGS Annual Conference session.
- 2021 *Data for Policy conference*
Session chair. "Informing policy for region and cities: data approaches for timely and granular evidence" *London, United Kingdom, September 16, 2021.*
- 2021 *Consumer Data Insights for Housing Policy Workshop*
Presentation and participation in stakeholder workshop to showcase work on housing and residential mobility. *London, United Kingdom, June 26, 2021.*
- 2020 – Present *Under One Sky*
Volunteering. Provision of food and assistance to the homeless community in London.
- 2014 – 2015 *Social Sciences for Development conference*
Member of the local organising committee at Stellenbosch University for the 2015 Social Sciences for Development conference.

Web Development

- 2019 – 2021 *Gamble Aware*
Data analysis, web mapping, and visualisation of the geographical distribution of supply and demand for treatment and support for problematic gamblers.
- 2018 – 2023 *GBNames*
GBNames explores the spread of family names across Great Britain, using historic censuses and recent consumer registers, and links surnames to consumer data statistics. Website available through:
apps.cdrc.ac.uk/gbnames/

External Projects

- 2023 – Present *Greater London Authority*
Contributions to a project on quantifying the night-time economy in London. Many dimensions of night-time activity, night-work, and night-time communities – the experiences of often precarious night-workers – remain elusive, and require a new evidence based gathered using ambitious approaches to data collection (both quantitative and qualitative) to drive equitable policy.
- 2021 *World Bank*
Generation of travel time indicators and market access indicators for small administrative units in Ethiopia. This project is part of a wider study conducted by the World Bank that aims to identify and tackle deeply rooted binding constraints that could hamper the gains of economic growth being spread evenly across regions and between rural and urban areas. Final World Bank report available through: bit.ly/3Aj57U0
- 2020 *UCL, Bloomsbury and East London Doctoral Training Partnership*
Scoping study, consisting of both desk research and in-person interviews, to identify potential factors and themes that underpin successful partnerships and collaborations between academia and industry.
- 2019 *Greater London Authority*
Preparation of selected data products on ethnicity, population churn, migration, and social mobility for the Greater London Authority.
- 2016 – 2017 *Harambee Youth Employment Accelerator*
Data analysis using well-known statistical techniques as well as more advanced machine learning classifiers for Harambee Youth Employment Accelerator to better understand, and possibly predict, successful job placements.

2009 *AfriScope*
 Contributions to a study on the accessibility of government services in the Integrated Sustainable Rural Development (ISRD) Nodes in South Africa.

Journal Review

2024 Habitat International
 2023 Social Science History
 PLOS ONE
 2022 Transportation Research Board
 Transportation Research Record
 2021 Transactions in GIS
 Environment and Planning B: Urban Analytics and City Science
 2020 Computers, Environment, and Urban Systems
 Journal of Transport Geography
 Transactions in GIS
 2019 Transactions in GIS
 Journal of Transport Geography
 Journal of Traffic and Transportation Engineering
 2018 Journal of Transport Geography
 Computers, Environment, and Urban Systems
 2016 Area Development and Policy
 2015 Journal of Transport and Land Use

Media Coverage of Research Projects

2021 The Economist. Britain's inequalities are spelt out in its surnames. Nov 20, 2021; Vol. 442 (9272)

 UCL News. Social mobility is influenced by where ancestors lived [Online]. <https://www.ucl.ac.uk/news/2021/oct/social-mobility-influenced-where-ancestors-lived>

Core Technical Skills

<i>Geographic Information Systems</i>	R, Python, Q-GIS, ESRI suite
<i>Data processing</i>	R, Python, Unix shell, GNU Parallel
<i>Data analysis</i>	R, Python
<i>Data visualisation</i>	ggplot2, tmap
<i>Project management</i>	Git, GitHub
<i>Web mapping</i>	Leaflet.js
<i>Web development</i>	HTML, CSS, JavaScript, Django
<i>Database management</i>	PostgreSQL, PostGIS
<i>Typesetting</i>	LaTeX, markdown, rmarkdown, bookdown, quarto

Language Proficiency

Dutch	Native proficiency
English	Full professional proficiency
isiXhosa	Basic conversational proficiency

References

Professor Paul Longley

Professor of Geographic Information Science, University College London

E p.longley@ucl.ac.uk

T +44 20 7679 0500

Professor James Cheshire

Professor of Geographic Information and Cartography, University College London

E j.cheshire@ucl.ac.uk

T +44 20 7679 0500

Dr Jens Kandt

Associate Professor Urban Geography and Data Science, Centre for Advanced Spatial Analysis

E j.kandt@ucl.ac.uk

T +44 20 3108 3880