



Adam Dennett

Professor of Urban Analytics

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Profile

I am Professor of Urban Analytics at the Bartlett Centre for Advanced Spatial Analysis (CASA), University College London. My research uses data and quantitative methods — frequently in R — to understand cities, migration, housing and the systems people create. I publish across migration modelling (particularly spatial interaction models), housing and energy, gentrification, synthetic data and the geographies of beer and brewing, and have a passion for applied work in urban policy contexts.

Professional History

Professor of Urban Analytics

Bartlett Centre for Advanced Spatial Analysis, UCL

2021–Present

Head of Department and Director

Bartlett Centre for Advanced Spatial Analysis, UCL

2018–2023

Associate Professor, Urban Analytics

Bartlett Centre for Advanced Spatial Analysis, UCL

2017–2021

Deputy Director

Bartlett Centre for Advanced Spatial Analysis, UCL

2016–2018

Lecturer in Urban Analytics

Bartlett Centre for Advanced Spatial Analysis, UCL

2013–2017

Post-doctoral Research Associate

Bartlett Centre for Advanced Spatial Analysis, UCL

2010–2013

Research Assistant and part-time PhD student

School of Geography, University of Leeds

2006–2010

Teacher of Geography and Head of General Studies

Hedingham School, Essex

2002–2005

Education

PhD in Quantitative Human Geography

School of Geography, University of Leeds

2007–2011

- Studied part-time

MA in Human Geography with Geographic Information Systems

School of Geography, University of Leeds

2005–2006

- Pass with Distinction

Qualified Teacher Status (QTS)

National College of Teaching and Leadership, DfE

2003–2003

PGCE in Secondary Geography

Faculty of Education (Homerton College), University of Cambridge

2001–2002

BSc (Hons) Geography

Lancaster University

1998–2001

Appointments and Affiliations

Member, ESRC Peer Review College

ESRC

2024–Present

External Examiner, MSc Geographical Information Science

University of Manchester

2023–Present

Editor-in-Chief, Applied Spatial Analysis and Policy (Impact Factor 1.9)

Springer

2017–2023

Fellow of the Academy of Social Sciences (FAcSS) — Elected

Academy of Social Sciences

2021–Present

Fellow of the Royal Geographical Society (FRGS)

Royal Geographical Society

2010–Present

Prizes, Awards and Honours

Best Paper, 33rd Annual GIS Research UK (GISRUK) Conference

University of Bristol

2025

Elected Fellow of the Academy of Social Sciences (FAcSS)

Academy of Social Sciences

2021

Cabinet Office Geospatial Commission, Geography in Government Award — Excellence in Local Government

Awarded with City of Westminster Council for pioneering Urban Lab work

2020

Best Paper, 27th Annual GIS Research UK (GISRUK) Conference (Colouring London Project)

University of Newcastle

2019

UCLU Student Choice Teaching Award for Outstanding Teaching

University College London

2016

Grebenik Prize — best work on any aspect of human population problems

University of Leeds

2006

Grants

External grants total awarded as PI or Co-I since 2012: **£17,491,621.90**.

Census Innovation at CeLSIUS (ES/Z502741/1)

Co-I; active

2024

- £384,576

TRACK-UK: Synthesized Census and Small Area Statistics for Transport and Energy (ES/Z50290X/1)

Co-I; active

2024

- £327,680

AI for Collective Intelligence (AI4CI) — UKRI AI Research Hub for Real Data (EP/Y028392/1)

Co-I; Local PI for UCL branch; active

2024

- £10,274,279 (UCL portion £980,391.77)

Pathways to socially equitable net-zero cities and regions — ESRC CASE PhD Studentship

PI/Supervisor (Transport East partner); active

2023

- £93,633.90

Equity Assessment of Demand-side Flexibility Technologies in Grid Integrated Transport Electrification (PhD)

PI/Supervisor (EPSRC CREDS); active

2023

- £96,044

NARRATE

PI; complete

- £142,739.24 (Ordnance Survey)

2022

dunnhumby PhD Studentship

PI/Supervisor (industry-funded); complete

- £60,000 (dunnhumby)

2020

CeLSIUS (ES/V003488/1)

Co-I; active

- £2,160,348.40 (ESRC)

2020

YOUR.VU.CITY (UKRI 105325)

Local PI (Co-I on whole project); complete

- £620,697 (UCL £159,996; Innovate UK)

2019

CeLSIUS Re-commissioning (ES/R00823X/1)

Co-I; complete

- £1,020,753 (ESRC)

2018

Colouring London Impact Acceleration Grant

PI; complete

- £55,200 (EPSRC)

2018

CeLSIUS Extension Grant

Co-I; complete

- £247,182.40 (ESRC)

2016

Colouring London

PI (with Co-PI Polly Hudson); complete

- £58,400.74 (Historic England)

2016

RGS Innovative Teaching Grant

PI (Co-I Paul Turner, Bedales School); complete

- £1,000 (RGS)

2014

SYLLS — Synthetic data estimation for the UK Longitudinal Studies

PI; complete

- £272,652.73 (ESRC)

2013

CeLSIUS (ES/K000365/1)

Co-I; complete

- £1,676,436 (ESRC)

2012

Invited Talks (recent)

UCL Development Planning Unit — talk to Latin American city leaders

Smart Cities and Collective Intelligence

Sept 2025

Royal Geographical Society Annual Conference

GIS vs The City Council: Data Analytics, Collective Intelligence and Policy Dust-ups (GISRUK 2025 Best Paper)

Aug 2025

Brighton Data Forum (public lecture)

The Case of the Brighton Secondary School Admissions Consultation

March 2025

Institute for Spatial Data Science, University of Leeds (departmental seminar)

Data Analytics and the Brighton Secondary School Admissions debate

Feb 2025

Parent Support Group, Brighton (online public lecture)

Data and evidence missing from the B&H Secondary School Admissions Consultation

Jan 2025

Alan Turing Institute / University of Glasgow

Early career researcher panel, Urban Analytics meeting

Dec 2024

Aalto University, Finland

Housing and Net-Zero

Sept 2024

Geographic Data Science Lab, University of Liverpool (departmental seminar)

Evidence against the effects of schools on local house prices in Brighton and Hove

Feb 2024

Carto Spatial Data Science Bootcamp, London (invited back)

Foundations of Geospatial

Nov 2023

Carto annual conference, Royal Geographical Society, London

Careers panel

May 2023

Carto Spatial Data Science Bootcamp, London

Foundations of Geospatial

Feb 2023

PhD Supervision

Current research students

1st supervisor

Maria Wood — Equity assessment of demand-side flexibility technologies in transportation decarbonisation (with Esra Suel, Gerry Casey). Upgrade passed.

2023

1st supervisor

Claude Lynch — Pathways to Socially Equitable Net Zero Cities and Regions (with Esra Suel, Gerry Casey). Upgrade passed.

2023

1st supervisor

Tom Murat — Generative scenarios for getting Transport to an equitable Net Zero (with Esra Suel, Gerry Casey).

2023

1st supervisor

Denise Mizzi (PT) — Small Area Estimation of Wheezing prevalence in Maltese School Children (with Jens Kandt, Nicola Shelton). Upgrade passed.

2018

2nd supervisor

Roei Yosifof — Application of novel AI methods in the Digital Urban Planning domain. AI4CI Linked PhD.

2025

2nd supervisor

AI4CI Linked PhD (Glasgow half of Cities Theme) — candidate appointed.

2025

2nd supervisor

Chiara Gericke — Role of the Neighbourhood Food Environment in Susceptibility to Obesity (1st sup. Claire Llewellyn, Institute of Epidemiology and Health Care).

2023

Completed

1st supervisor

Philip Wilkinson — Applications of novel retail modelling methodologies in an evolving grocery sector (2nd sup. Neave O'Clery). Minor corrections.

2020 – 2023

1st supervisor

Bonnie Buyuklieva — Understanding London's Residential Metabolism (2nd sup. Hannah Fry). Minor corrections.

2016 – 2022

1st supervisor

Bin Chi — Spatial and temporal patterns of residential house prices and affordability in the UK (2nd sup. Thomas Oléron Evans). Passed without corrections.

2016 – 2021

1st supervisor

Matthew Ng — The future of Brunei: changes in Brunei-Muara's urban and population landscapes (2nd sup. Elsa Arcaute). Minor corrections.

2016 – 2020

2nd supervisor

Yufeng Wu — Dynamics of return migration intention and behaviour in China (1st sup. Rory Coulter).

2019 – 2024

2nd supervisor

Lixun Liu — Impacts of rail transit investment on development in Chongqing (1st sup. Robin Hickman).

2015 – 2016

Minor corrections.

MSc / MRes

Supervised 45+ dissertations between 2017–2025. Joshua Yee (2019) won the RGS-IBG Population Geography Research Group postgraduate dissertation prize.

Research Staff Line Management

Dr Beatrice Taylor; Adham Enaya; Dr Yahya Gamal (Glasgow — oversight)

AI for Collective Intelligence National Research Hub

2024-Present

Dr Bonnie Buyuklieva (now Lecturer in Digital Humanities, UCL)

NARRATE — Ordnance Survey Housing Net Zero R&D Project

2022-2023

Dr Martin de Jode (now Lecturer in CASA); Maciej Ziarkowski; Dominic Humphrey (now UCL Energy Institute)

Colouring London (CASA)

2018-2020

Dr Belinda Wu

SYLLS

2013-2014

Academic Staff Line Management

Currently line-manage 2 academic staff. As Head of Department over a 5-year period directly line-managed (seeing several through promotions):

- 3 Professors (one successfully re-banded during period)
- 6 Associate Professors (2 promoted to Professor during period)
- 4 Lecturers (2 promoted to Associate Professor during period)

Selected Publications (since 2020)

A full list is available via Google Scholar and ORCID 0000-0001-8036-0185.

Lynch, C.E.H., Casey, G., Suel, E., Dennett, A.

Is transport modelling 'a bit of a racket'? On the role of transport planning support systems in England.

Transportation Research Interdisciplinary Perspectives 36. doi:10.1016/j.trip.2026.101876

2026

Wood, M., Dennett, A., Casey, G., Suel, E.

Car dependence in England and Wales: spatial inequalities and implications for a just transition.

Frontiers in Sustainable Cities 7. doi:10.3389/frsc.2025.1719495

2026

Horsfall, L., Kennedy, C., Shelton, N., Taylor, J., Hurst, J.R., Loxham, M., Dennett, A., Hardelid, P.

High-resolution mapping of residential wood burning heat sources using Energy Performance

Certificates. *Environment International* 201. doi:10.1016/j.envint.2025.109537

2025

Tan, J., Dennett, A.

Do Good Schools Influence Property Prices? Disentangling School and Neighbourhood Effects with

Empirical Evidence from Brighton. In *Digital-Era Urban Transformations* (CUPUM).

doi:10.1007/978-3-031-98300-9_17

2025

Dennett, A., Bullock, S., Ajmeri, N., Batty, M., Black, M., Carlidge, J., ..., Williams, H.T.P.

Artificial Intelligence for Collective Intelligence: A National-Scale Research Strategy. *Knowledge

Engineering Review*. doi:10.1017/S0269888924000110

2024

Buyuklieva, B., Bevilacqua, I., Dennett, A., Reades, J., Hubbard, P.

Life for Rent: Evolving Residential Infrastructure in London and the Rise of Built-to-Rent. *Urban

Studies*. doi:10.1177/00420980241277684

2024

- Suel, E., Lynch, C., Wood, M., Murat, T., Casey, G., Dennett, A.**
Measuring transport-associated urban inequalities: Where are we and where do we go from here? *2024*
Transport Reviews. doi:10.1080/01441647.2024.2389800
- Rowe, F., Lovelace, R., Dennett, A.**
Spatial interaction modelling: A manifesto. In **A Research Agenda for Spatial Analysis** (Elgar). *2024*
doi:10.4337/9781802203233
- Buyuklieva, B., Oléron-Evans, T., Bailey, N., Dennett, A.**
Variations in domestic energy efficiency by property, neighbourhood and local authority type. *2024*
Frontiers in Sustainability 5. doi:10.3389/frsus.2024.1329034
- Gericke, C., Llewellyn, C., Burgoine, T., Dennett, A.**
From textbooks to takeaways: a geospatial analysis of clustering of takeaway outlets near London schools. *2024*
- Dennett, A., Gray, S., Wyszomierski, J.**
From the Beer Orders to Last Orders — Legislation, Taxation and the Modern Beer Landscape of London. In **The Geography of Beer** (Springer). *2023*
- Yan, X., Dennett, A.**
Re-defining transport for London's strategic neighbourhoods from spatial and social perspectives. *2023*
Applied Geography. doi:10.1016/j.apgeog.2023.103116
- Wu, Y., Coulter, R., Dennett, A.**
Relationships between family structures and destinations of married migrants with children in China. *2023*
Applied Geography. doi:10.1016/j.apgeog.2023.103102
- Liu, L., Dennett, A., Hickman, R.**
Exploring the spatial differences in travel mode choice of rail transit in Chongqing. *2023*
Transportation Planning and Technology. doi:10.1080/03081060.2023.2228301
- Dennett, A., Buyuklieva, B.**
Transitioning the residential environment of the UK to net-zero (CASA Working Paper 233). *2023*
- Buyuklieva, B., Dennett, A., Bailey, N., Morley, J.**
Energy Efficient Homes: Social and Spatial Patterns of Residential Energy Efficiency in England. *2023*
GISRUUK proceedings. doi:10.5281/zenodo.7855112
- Liu, L., Dennett, A., Hickman, R.**
Social equity impacts of rail transit investments using community perceptions: evidence from Chongqing. *2023*
Transportation Planning and Technology. doi:10.1080/03081060.2022.2152454
- MacLachlan, A., Dennett, A.**
An Applied Geographic Information Systems and Science Course in R. *2022*
Journal of Open Source Education 5(50). doi:10.21105/jose.00141
- Yee, J., Dennett, A.**
Stratifying and predicting patterns of neighbourhood change and gentrification: an urban analytics approach. *2022*
Transactions of the Institute of British Geographers. doi:10.1111/tran.12522
- Spooner, F., Abrams, J.F., Morrissey, K., Shaddick, G., Batty, M., et al.**
A dynamic microsimulation model for epidemics. *2021*
Social Science & Medicine 291. doi:10.1016/j.socscimed.2021.114461
- Chi, B., Dennett, A., Oléron-Evans, T., Morphet, R.**
A new attribute-linked residential property price dataset for England and Wales, 2011–2019. *2021*
UCL Open: Environment. doi:10.14324/111.444/ucloe.000019
- Clifford, B., Dennett, A., Chi, B.**
Mapping Class E: Understanding the expansion of permitted development. *2021*
TCPA report.
- Chi, B., Dennett, A., Oléron-Evans, T., Morphet, R.**
Delineating the Spatio-Temporal Pattern of House Price Variation by Local Authority in England: 2009 to 2016. *2021*
Geographical Analysis. doi:10.1111/gean.12287

Chi, B., Dennett, A., Evans, T., Morphet, R.

Shedding new light on residential property price variation in England: A multi-scale exploration.

Environment and Planning B. doi:10.1177/2399808320951212

2020