




Roger Beecham

School of Geography
Faculty of Environment
University of Leeds

r.j.beecham1@leeds.ac.uk 
www.roger-beecham.com 
github.com/rogerbeecham 

RESEARCH INTERESTS

Computational Social Science: data visualization, usable statistics, uncertainty analysis.

Transportation: active travel, infrastructure evaluation, behavioural modelling.

Quantitative Geography: small area estimation, public health, political geography.

EDUCATION

PhD Geographic Information Science, City, University of London, 2011–2014

Understanding cycling behaviour through visual analysis of a large-scale observational dataset

Supervisor: Prof. Jo Wood

Examiners: Prof. John Parkin, Prof. David Bawden, Prof. Artur d'Avila Garcez

BA Geography (1st Class Hons), Durham University, 2003–2006

APPOINTMENTS

Current appointments

2021– University of Leeds
Associate Professor, School of Geography

Honorary appointments

2025– University of York
Visiting Researcher

2023– University of Edinburgh
Visiting Researcher

Distinguished leadership appointments

2025– NIHR Health Determinants Research Collaboration
External Oversight Committee

Past appointments

2024–26 University of Leeds
Director of Research & Innovation, Leeds Institute for Data Analytics

- 2017–21 University of Leeds
Lecturer, School of Geography
- 2014–17 City, University of London
Postdoctoral Researcher, giCentre, Department of Computer Science
- 2011–14 City, University of London
PhD Student, giCentre, Department of Computer Science

COMMITTEE MEMBERSHIPS

- 2024 Conference Chair and Scientific Committee, GISRUK 2024, University of Leeds
- 2023 Program Committee and Papers Chair, GIScience 2023, University of Leeds
Program Committee and Best Paper Panel, GISRUK 2023, University of Glasgow
- 2018 Committee and Panel, GVIZ@GIScience 2018, University of Melbourne
- 2017 Committee and Panel, DECISIVe at IEEEVIS 2017, Phoenix, AZ
- 2015 Program Committee and Best Paper Panel, UTSG, City, University of London

RESEARCH INCOME

Funding Gained

- 2026 “Cars & Crime”. University of Leeds internal pump-priming. co-PI £6,140.
- 2025 “Public Health Intervention Responsive Studies Team: PHIRST REACH”. National Institute for Health Research (NIHR). Co-I £2,524,678.
- 2025 “MRP-SMART: Estimating place-based and cross-sectional population outcomes from everyday transactions and behaviours”. Economic and Social Research Council (ESRC). PI £112,640.
- 2025 “Public Health Intervention Responsive Studies Team: PHIRST REACH”. National Institute for Health Research (NIHR). Co-I £2,524,678.
- 2024 “INFUZE: Inspiring Futures for Zero Carbon Mobility”. Engineering and Physical Sciences Research Council (EPSRC). Co-I £6,039,667.
- 2023 “Generating evidence for decision-making on the use of the oral cholera vaccine”. Wellcome Trust. Co-I £2.5m.
- 2021 “Digital Twins and the Turing Geovisualisation Engine”. UKRI/Alan Turing Institute. Co-I £120,195.
- 2020 “SaferActive: prioritising investment in traffic calming measures for vulnerable road users”. Department for Transport. Co-I £90,000.
- 2018 “Creating a Digital Twin”. UKRI and The Alan Turing Institute. Co-I £888,464.

Funding Sought

- 2025 “TRacking Active travel for Community-led Evidence (TRACE)”. EPSRC. Not funded. Co-I £2,011,557.

- 2025 “A Flexible Modelling and Visualisation Infrastructure to Respond to Emerging Epidemic Threats (UKRI MoVi)”. UKRI. Not funded. Co-I £3,645,981.
- 2022 “Literate Data Visualization for Spatial Decision Making”. Engineering and Physical Sciences Research Council (EPSRC). Not funded. Co-PI £749,605.
- 2021 “RAMPVIS+: Building Data Visualization and Visual Analytics (VIS) Services into Data Research Infrastructure in the UK”. UKRI. Not funded. Co-I £392,085.
- 2020 “ESRC Centre for Urban Analytics”. Economic and Social Research Council (ESRC). Not funded. Co-I £9.9m.
- 2020 “Universities as enablers of productivity gains”. Economic and Social Research Council (ESRC). Not funded. Co-I £40,327.
- 2019 “International Exchanges 2019 Round 2”. Royal Society. Not funded. PI £3,000.
- 2018 “Progressing social data science beyond description: a framework for analysis”. Leverhulme Trust. Not funded. PI £44,095.
- 2016 “Mapping the Cycling Environment (MaCE): an interactive web tool”. Department for Transport. Not funded. Co-PI £102,444.

PUBLICATIONS

Books / Monographs

- 2025 **Beecham, R.** (2025). **Visualization for Social Data Science**. CRC Press, Boca Raton, FL <https://vis4sds.github.io/vis4sds/>

Journal Articles

- 2026 Fonseca, J., Lovelace, R., **Beecham, R.**, and Tate, J. (2026). Spotting Rat-Runs: A Network-Based Method for Identifying Potential Cut-Through Routes in Bogotá, Colombia. **Computers, Environment & Urban Systems**
- 2026 **Beecham, R.** and Clark, S. (2026). Simulating area-level population outcomes: Should we use Multilevel Regression and Poststratification over Spatial Microsimulation? **Geographical Analysis**, 58(3):e70049
- 2026 **Beecham, R.** and Arribas-Bel, D. (2026). Open spatial science as routine practice: Urban Data/Code contributions from GISRUK 2024. **Environment and Planning B: Urban Analytics and City Science**
- 2025 **Beecham, R.**, Tennekes, M., and Wood, J. (2025). gridmappr: An R package for creating small multiple gridmap layouts. **Environment and Planning B: Urban Analytics and City Science**
- 2025 Richards, T. C., Heppenstall, A., Oldroyd, R. A., Barr, V., and **Beecham, R.** (2025). Using OpenPrescribing.net to evaluate neighbourhood-level prescribing of inhalers for asthma and COPD. **Scientific Reports**, 15
- 2025 Magnuszewski, J., **Beecham, R.**, and Burns, L. (2025). The Auckland Urban Liveability Index: A Mechanism for Quantifying and Evaluating Modern Urban Densification. **Applied Spatial Analysis and Policy**
- 2024 Tait, C., **Beecham, R.**, Lovelace, R., and Barber, S. (2024). Build it but will they come?

- Exploring the impact of introducing contraflow cycling on cycling volumes with crowd-sourced data. **Journal of Transport & Health**, 35:101758
- 2023 **Beecham, R.**, Yang, Y., Tait, C., and Lovelace, R. (2023). Connected bikeability in London: which localities are better connected by bike and does this matter? **Environment and Planning B: Urban Analytics and City Science** [code+data]
- 2023 Tait, C., **Beecham, R.**, Lovelace, R., and Barber, S. (2023). Contraflows and cycling safety: Evidence from 22 years of data involving 508 one-way streets. **Accident Analysis & Prevention**, 179(January):106895 [code+data]
- 2023 **Beecham, R.** and Lovelace, R. (2023). A framework for inserting visually-supported inferences into geographical analysis workflow: application to road safety research. 55(3):345–366 [code+data]
- 2022 Tait, C., **Beecham, R.**, Lovelace, R., and Barber, S. (2022). Is cycling infrastructure in London safe and equitable? Evidence from the cycling infrastructure database. **Journal of Transport & Health**, page 101369. [code+data]
- 2022 Yang, Y., **Beecham, R.**, Heppenstall, A., Turner, A., and Comber, A. (2022). Understanding the impacts of public transit disruptions on bikeshare schemes and cycling behaviours using spatiotemporal and graph-based analysis: A case study of four London Tube strikes. **Journal of Transport Geography**, 98:103255[code+data]
- 2022 Zucker, K., Wagstaff, M., Tomson, C., **Beecham, R.**, and Hall, G. (2022). AuguR: A Scalable Open-Source Interactive Web Application for Routinely Collected Data. **Studies in health technology and informatics**, 290:744–747
- 2021 Radburn, R. and **Beecham, R.** (2021). Mapping deprivation for each and every small area in England. **Regional Studies, Regional Science**, 8(1):269–272
- 2021 **Beecham, R.**, Dykes, J., Hama, L., and Lomax, N. (2021). On the Use of ‘Glyphmaps’ for Analysing the Scale and Temporal Spread of COVID-19 Reported Cases. **ISPRS International Journal of Geo-Information**, 10(4) [code+data] *Editor’s Choice Article*
- 2021 **Beecham, R.**, Dykes, J., Rooney, C., and Wong, W. (2021). Design Exposition Discussion Documents for Rich Design Discourse in Applied Visualization. **IEEE Transactions on Visualization and Computer Graphics**, 27(8):3451–3462 [code+data]
- 2020 Lovelace, R., **Beecham, R.**, Heinen, E., Vidal Tortosa, E., Yang, Y. Slade, C., and Roberts, A. (2020). Is the London Cycle Hire Scheme becoming more inclusive? An evaluation of the shifting spatial distribution of uptake based on 70 million trips. **Transportation Research Part A: Policy and Practice**, 140(October):1–15
- 2020 **Beecham, R.**, Williams, N., and Comber, L. (2020). Regionally-structured explanations behind area-level populism: an update to recent ecological analyses. **PLoS ONE**, 15(3):e0229974 [code+data]
- 2020 **Beecham, R.** (2020). Using position, angle and thickness to expose the shifting geographies of the 2019 UK General Election. **Environment and Planning A: Economy and Space**, 52(5):833–836 [code+data][press]
- 2019 **Beecham, R.** and Slingsby, A. (2019). Characterising labour market self-containment in London with geographically arranged small multiples. **Environment and Planning A: Economy and Space**, 51(6):1217–1224 [code+data]
- 2018 **Beecham, R.**, Slingsby, A., and Brunson, C. (2018). Locally-varying explanations behind the

- United Kingdom's vote to leave the European Union. **Journal of Spatial Information Science**, 16:117–136 [code+data]
- 2017 **Beecham, R.**, Dykes, J., Meulemans, W., Slingsby, A., Turkey, C., and Wood, J. (2017). Map line-ups: effects of spatial structure on graphical inference. **IEEE Transactions on Visualization and Computer Graphics**, 23(1):391–400 [code+data][paper web-site] [23% acceptance rate] [Best Paper Honorable Mention]
- 2016 **Beecham, R.**, Rooney, C., Meier, S., Dykes, J., Slingsby, A., Turkey, C., and Wong, W. (2016). Faceted Views of Varying Emphasis (FaVVEs): a framework for visualising multi-perspective small multiples. **Computer Graphics Forum**, 35(3):241–249 [paper web-site] [28% acceptance rate]
- 2014 Wood, J., **Beecham, R.**, and Dykes, J. (2014). Moving beyond sequential design: Reflections on a rich multi-channel approach to data visualization. **IEEE Transactions on Visualization and Computer Graphics**, 20(12):2171–2180 [23% acceptance rate]
- 2014 **Beecham, R.** and Wood, J. (2014). Characterising group-cycling journeys using interactive graphics. **Transportation Research Part C: Emerging Technologies**, 47(October):194–206
- 2014 **Beecham, R.**, Wood, J., and Bowerman, A. (2014). Studying commuting behaviours using collaborative visual analytics. **Computers, Environment and Urban Systems**, 47(September):5–15
- 2014 **Beecham, R.** and Wood, J. (2014). Exploring gendered cycling behaviours within a large-scale behavioural data-set. **Transportation Planning and Technology**, 37(1):83–97 [Smeed Prize (1st place)][Taylor & Frances top 10 articles in transport from 2014]
- 2013 Slingsby, A., **Beecham, R.**, and Wood, J. (2013). Visual analysis of social networks in space and time using smartphone logs. **Pervasive and Mobile Computing**, 9(6):848–864

Peer-Reviewed Registered Reports

- 2026 Pina-Sánchez, J., Tait, C., Beecham, R., and Fonseca Zamora, J. (2026). The road violence toll of urban sprawl: A registered report of collisions with cyclists and pedestrians in England and Wales. Preprint, SocArXiv

Edited Book Series

- 2023 **Beecham, R.**, Long, J., Smith, D., Zhao, Q., and Wise, S., editors (2023). **LIPICs, Volume 277, GIScience 2023, Complete Volume**, volume 277 of **Leibniz International Proceedings in Informatics (LIPICs)**, Dagstuhl, Germany. Schloss Dagstuhl – Leibniz-Zentrum für Informatik

Book Chapters

- 2015 **Beecham, R.** (2015). Using bikeshare datasets to improve urban cycling experience and research urban cycling behaviour. In Gerike, R. and Parkin, J., editors, **Cycling Futures: From Research into Practice.**, pages 267–283. Ashgate, Farnham, UK

Conference Proceedings

- 2026 **Beecham, R.** (2026). MRP-SMART: Estimating place-based and cross-sectional population outcomes from everyday transactions and behaviours. In **Geospatial Health Research Symposium II: Advances in Methods & Approaches for Health Geography**, San Francisco, CA

- 2025 **Beecham, R.** and Clark, S. (2025). Should we use Multilevel Regression and Post-stratification when simulating area-level population outcomes? In **Geographical Information Science Research UK (GISRUK)**, Bristol, UK. Zenodo
- 2024 **Beecham, R.** (2024). gridmappr: an R package for creating small multiple gridmap layouts. In **Geographical Information Science Research UK (GISRUK)**, Leeds, UK. Zenodo
- 2023 Hama, L., **Beecham, R.**, and Lomax, N. (2023). TGVE: a Tool for Analysis and Visualization of Geospatial Data. In Hoell, T., Aigner, W., and Wang, B., editors, **EuroVis 2023 - Short Papers**. The Eurographics Association
- 2021 Doppler, J. H., Pohl, M., **Beecham, R.**, and Dykes, J. (2021). Strategies for Detecting Difference in Map Line-Up Tasks. In Lamas, D., Loizides, F., Nacke, L. E., Petrie, H., Winckler, M., and Zaphiris, P., editors, **INTERACT 2021 - 18th International Conference on Human-Computer Interaction, Bari, Italy, August 30th-2nd September, 2021, Proceedings**, volume 12934 of **Lecture Notes in Computer Science**. Springer
- 2019 Lovelace, R., Hama, L., and **Beecham, R.** (2019). Reproducible road safety research: an exploration of the shifting spatial and temporal distribution of car-pedestrian crashes. In **Geographical Information Science Research UK (GISRUK)**, Newcastle, UK
- 2017 Rooney, C., **Beecham, R.**, Dykes, J., and Wong, W. (2017). Dynamic Design Documents for supporting applied visualization. In **Poster presented at IEEE VIS**, Phoenix, USA [Best Poster Award]
- 2017 **Beecham, R.** and Dykes, J. (2017). Map LineUps: implications for spatial analysis. In **Geocomputation 2017**, Leeds, UK
- 2017 **Beecham, R.**, Slingsby, A., Brunson, C., and Radburn, R. (2017). Spatially varying explanations behind the UK's vote to leave the EU. In **Geographical Information Science Research UK (GISRUK) 2017**, Manchester, UK
- 2016 **Beecham, R.**, Wood, J., and Turkay, C. (2016). Towards explanatory model building in social data science. In **Royal Geographical Society Annual International Conference 2016: Urban Analytics**, London, UK
- 2015 **Beecham, R.**, Dykes, J., Slingsby, A., and Turkay, C. (2015). Supporting crime analysis through visual design. In **Poster presented at IEEE VIS**, Chicago, USA
- 2015 Dykes, J., Rooney, C., **Beecham, R.**, Turkay, C., Slingsby, A., Wood, J., and Wong, W. (2015). Multi-Perspective Synopsis with Faceted Views of Varying Emphasis. In **Poster presented at IEEE VIS**, Chicago, USA
- 2014 **Beecham, R.**, Dykes, J., Turkay, C., Slingsby, A., and Wood, J. (2014). Map Line Ups: Using Graphical Inference to Study Spatial Structure. In **DECISIVE: Dealing with Cognitive Biases in Visualizations, a workshop at IEEE VIS**, Paris, UK
- 2014 **Beecham, R.** and Wood, J. (2014). Towards confirmatory data analysis? Deriving and analysing routing information for an origin-destination bike share dataset. In **46th Annual Universities Transport Study Group (UTSG) Conference**, Newcastle, UK
- 2012 **Beecham, R.**, Wood, J., and Bowerman, A. (2012). Identifying and explaining inter-peak cycling behaviours within the London Cycle Hire Scheme Conference. In **Progress in Movement Analysis: Experiences with Real Data**, Zurich, Switzerland
- 2012 Kachkaev, A., Dillingham, I., **Beecham, R.**, Goodwin, S., Ahmed, N., and Slingsby, A. (2012). Monitoring the Health of Computer Networks with Visualization - VAST 2012 Mini

Challenge 1 Award: Efficient Use of Visualization. In **IEEE Conference on Visual Analytics Science and Technology**, Seattle, USA

- 2012 **Beecham, R.**, Wood, J., and Bowerman, A. (2012). A visual analytics approach to understanding cycling behaviour. In **Poster presented at the IEEE Conference on Visual Analytics Science and Technology (VAST)**, Seattle, USA

Technical Reports

- 2010 Radburn, R., **Beecham, R.**, Dykes, J., Wood, J., and Slingsby, A. (2010). Using spatial treemaps in local authority decision making and reporting. In **IEEE Conference on Information Visualization (InfoVis), Discovery Exhibition**, Utah, USA

INVITED TALKS AND PANELS

- 2026 **Beecham, R.** (2026). Debating the rules of data visualisation, at RSS International Conference 2026. Brighton, UK
- 2025 **Beecham, R.** (2025). New Perspectives on Data Science for Business, at Leeds Digital Festival 2025. Leeds, UK
Beecham, R. (2025). Open Science practice in social research Reflections from the data analytic trenches, at Championing Open Research to Drive Cultural Transformation. Leeds, UK [press]
Beecham, R. (2025). Data Visualization, at Reimagine Ageing ASR Data Science Seminars. Leeds, UK
- 2024 **Beecham, R.** (2024). Rigor, imagination and production in data-driven science, at King's Colle London (Panel). London, UK
Beecham, R. (2024). Data Visualization, at HDRC Seminar Series, Bradford City Council. Bradford, UK
Beecham, R. (2024). Data Visualization, at Keynote to Department for Business and Trade. London, UK
Beecham, R. (2024). The Power of Data in Business, at NexusConnect (Panel). Leeds, UK
- 2022 **Beecham, R.** (2022). Data graphics as statistics? A call to adventure for statistical communication, at 54th Annual Meeting of the French Statistical Society. Lyon, France
- 2021 **Beecham, R.** (2021). Applications of Data Visualization: Covid-19, at 54th Essex Summer School. Essex, UK
Beecham, R. (2021). Visualizing the pandemic and other health outcomes, i-sense Q&A Series. London, UK
- 2020 **Beecham, R.** (2020). Glyphmaps for analysing the scale and temporal spread of covid-19 cases, at Annual VizTIG 2020 Symposium, Alan Turing Institute. London, UK
Beecham, R. (2020). Visualization for social data science principles and applications, at 53rd Essex Summer School. Essex, UK
- 2018 **Beecham, R.** (2018). Maps as Statistics? A call to Adventure for Perception Research in (geo)visualization, at Leeds Institute for Data Analytics. Leeds, UK
- 2016 **Beecham, R.** (2016). Thinking spatially ... through visualization, TU Vienna. Vienna, Austria
Beecham, R. (2016). Visualising uncertainty (and probability), at Visual Analytics Bootcamp. Middlesex University, London

- 2015 **Beecham, R.** (2015). Thinking spatially ... through visualization, at Geography Department Seminar Series. University College School, London
- 2014 **Beecham, R.** (2014). Discovering bike share cycle behaviours through interactive visual analysis. Or why pictures are a necessary part of big data analytics. London School of Hygiene and Tropical Medicine, London, UK
- 2013 **Beecham, R.** (2013). Exploratory visualization for discovering data stories. Hacks versus Hackers Meetup, London, UK
Beecham, R. (2013). Data visualization. The Power of Data, PPA Digital Publishing Conference 2013, 18 September 2013, London, UK
Beecham, R. (2013). Exploratory visualization for discovering data stories. Hacks versus Hackers Meetup, London, UK
Beecham, R. (2013). Visualization for better data analysis. Transport data visualisations. Transport Statistics User Group, Department for Transport, London, UK
Beecham, R. (2013). Exploring gender and cycle behaviour in a large-scale dataset. King's College London, London, UK

CONFERENCE ACTIVITY

Conference / session organisation

- 2025 [TMCF workshop: Navigating the garden of forking paths](#), 7th February 2025, Alan Turing Institute, British Library, London.
- 2024 Challenge Lead to Alan Turing Institute Theory and Methods Fortnight: Theoretical foundations for interactive data analysis in data-driven science.
<https://theory4ida.github.io/tmcf/>
- 2024 [GISRUK 2024](#): April 2024, Leeds, UK. Conference Chair
- 2023 GIScience 2023: September 2023, Leeds, UK. Conference Programme Chair
- 2021 RGS-IBG 2021: The Presence and Impact of Spatial Boundaries in Transport Geography, September 2021, London, UK. Committee member
- 2018 GVIZ@GIScience 2018: New Directions in Geovisual Analytics: Visualization, Computation, and Evaluation, August 2018, Melbourne, Australia. Committee member
- 2017 DECISIVE: Dealing with Cognitive Biases in Visualisations (a workshop at IEEE VIS 2017), 2nd October 2017, Phoenix, USA. Committee member
- 2015 UTSG 47th Annual Conference, 6th-8th January, City, University of London. Committee member
- 2014 DECISIVE: Dealing with Cognitive Biases in Visualisations (a workshop at IEEE VIS 2014), 9th November 2014, Paris, France. Committee member.
 UTSG 46th Annual Conference, 6th-8th January, Newcastle University. Committee member

ENTERPRISE AND KNOWLEDGE TRANSFER

Funded Consultancy Projects

- 2015 Web-based visualization of bus usage data, Mirror Group. £2,700.
<https://www.gicentre.org/getreading/>

Open Source Software

- 2024 gridmappr R package. <https://www.roger-beecham.com/gridmappr/>
odvis R package. <https://www.roger-beecham.com/odvis/>
- 2023 TGVE Turing Geovisualization Engine. <https://github.com/tgve>

Other Knowledge Transfer

- 2021 Advisor to UKRI-funded RAMP VIS
- 2015 UK national report to the International Cartographic Association

AWARDS AND HONORS

- 2024 Challenge Proposal Winner, Alan Turing Institute Theory and Methods Fortnight: Theoretical foundations for interactive data analysis in data-driven science, <https://theory4ida.github.io/tmcf/>. Approx. value £60,000
- 2021 Editor's Choice article, for **Beecham, R.**, Dykes, J., Hama, L., and Lomax, N. (2021). On the Use of 'Glyphmaps' for Analysing the Scale and Temporal Spread of COVID-19 Reported Cases. **ISPRS International Journal of Geo-Information**, 10(4)
- 2017 InfoVis Best Poster Award. Top 1 of 64 submissions, IEEE VIS 2017, Phoenix, Arizona
- 2016 InfoVis Best Paper Honorable Mention. Top 3 of 165 papers, IEEE VIS 2016, Baltimore, Maryland
- 2014 Top 10 Taylor & Francis articles in Transport for the paper 'Exploring gendered cycling behaviours within a large-scale behavioural data-set' (listed under Publications)
- 2013 Smeed Prize (first place). Best student paper and presentation (14 shortlisted papers), 45th UTSG, University of Oxford
- 2012 VAST Challenge Award for Efficient Visualization, IEEE Visweek, Seattle, Washington
Nokia Mobile Data Challenge Third best paper from c.100 entries, Pervasive 2012, University of Newcastle
- 2006 Robin Mills Award. Second highest first in academic cohort, Durham University Geography

RESEARCH SUPERVISION

Postdoctoral Researchers

- 2025– Tom O'Shea, "INFUZE: Inspiring Futures for Zero Carbon Mobility", University of Leeds.
- 2025– Varun Raturi, "INFUZE: Inspiring Futures for Zero Carbon Mobility", University of Leeds.
- 2024– Parna Mandal, "Generating evidence for decision-making on the use of the oral cholera vaccine", University of Leeds.
- 2018–2022 Layik Hama, "Digital Twins and the Turing Geovisualisation Engine", University of Leeds.

PhD Supervision

- 2026– Youlong Gu, Co-Supervisor
- 2025– Feiyang Ren, Lead Supervisor

2023– Seán Ó Héir, Co-Supervisor
2022– Juliana Novaes Bueno De Camargo, Lead Supervisor
2022– Juan Fonseca Zamora, Co-Supervisor
2018–2023 Caroline Tait, Lead Supervisor

Research Assistants

2023–2024 Aditi Sudhakar, LIDA Data Scientist Development Programme w/ Office for National Statistics
2022–2023 Owen Hibbert, LIDA Data Scientist Development PCity Council w/ Leeds
2019–2020 Thomas Richards, LIDA Data Scientist Development Programme
2020 Millie Wagstaff, LIDA Data Scientist Development Programme w/ Leeds Teaching Hospitals NHS Trust
2018 Benjamin Wilson, LIDA Data Scientist Development Programme

COURSES TAUGHT

University of Leeds

Visualization for Geographic Data Science. <https://www.roger-beecham.com/vis-for-gds/>
Predictive Analytics. <https://www.roger-beecham.com/predictive-analytics/>
Geodemographics & Neighbourhood Analysis
Professional & Personal Development
Geocomputation
GIS and CAMS postgraduate taught dissertation supervision
Geography undergraduate dissertation supervision

City, University of London

Visual Analytics
Principles of Data Science
Data Visualization
Business Intelligence & Analytics

Workshops and Short Courses

2025 "Data Visualization with R", Two-week course at the Essex Summer School in Social Science Data Analysis.
2023 "Computational methods for Social Data Science: Exploring Society through Visualization and Modelling", Two-week course at the Essex Summer School in Social Science Data Analysis. <https://www.roger-beecham.com/comp-sds/>
2022 "Computational methods for Social Data Science: Exploring Society through Visualization and Modelling", Two-week course at the Essex Summer School in Social Science Data Analysis. <https://www.roger-beecham.com/comp-sds/>

- 2021 "Computational methods for Social Data Science: Exploring Society through Visualization and Modelling", Two-week course at the Essex Summer School in Social Science Data Analysis
- 2018 "Explaining Brexit and Trump with Tidy Data Graphics", One-day course for the Consumer Data Research Centre, University of Leeds, May 2018.
<https://www.roger-beecham.com/tidy-datavis/>
- 2016 "Analysing active mobility data", Lecture + lab for invited lecture series, TU Vienna, May 2016.

SERVICE

Academic Journal Editorial Boards

- Environment & Planning B: Urban Analytics & City Science*, Guest Editor for SI 2025
- Lecture Notes in Computer Science*, Guest Editor for SI GIScience 2023

Academic Journal Peer Review

- Annals of the Association of American Geographers*
- Applied Geography*
- Applied Spatial Analysis & Policy*
- Cambridge Journal of Regions, Economy & Society*
- Computers, Environment & Urban Systems*
- Computers & Graphics*
- Computer Graphics Forum*
- Computer Graphics & Applications*
- Environment & Planning A: Economy and Space*
- Environment & Planning B: Urban Analytics and City Science*
- Geographical Analysis*
- IEEE Access*
- IEEE Pervasive Computing*
- IEEE Transactions on Visualization & Computer Graphics*
- IEEE Transactions on Intelligent Transport Systems*
- IEEE VIS, ACM CHI, Eurovis*
- International Journal of Sustainable Transportation*
- International Journal of Geographic Information Science*
- ISPRS International Journal of Geo-Information*
- Journal of Cycling and Micromobility Research*
- Journal of Transport Geography*
- Journal of Transportation & Health*
- Psychological Science*

Research in Transportation Business Management
Transportation Research Part C: Emerging Technologies

Grant Review

US National Science Foundation

Book Review

Taylor & Francis

Service to the University

2025– LIDA Science of Data Science Founder and co-Lead

2024– LIDA Visualization Founder and co-Lead

2022-2024 LIDA Education & Training Committee

2019– Digital Education Academic Lead

2018–21 Deputy Director of Centre for Spatial Analysis & Policy (CSAP) research group

2017–20 LIDA Seminar Committee

Doctoral Committees

Examination

2026 Rob Davidson, *Evaluating the communication of geographic health inequalities with maps and charts*, University College London, External Examiner, September 2026.

2023 Alfred Long, *Accessibility and Mobility: Enriching and Transforming Existing Big Datasets for Public Transport Analysis*, University College London, External Examiner, September 2023.

2023 Nan Cui, *Using social media data to understand the urban green space use before and after a pandemic*, University of Leeds, Internal Examiner, June 2023.

2023 Anthony Dixon, *Improving problem-oriented policing with natural language processing*, University of Leeds, Internal Examiner, June 2023.

Transfer examiner

2026 Dennis Dokter, University of Leeds, Research Support Group

2025 James Wood, University of Leeds, Research Support Group

2024 Kejian Li, University of Leeds, Research Support Group

2022 Zi Ye, University of Leeds, Research Support Group

2022 Amanda Otley, University of Leeds, Research Support Group

2020 Verity Tether, University of Leeds, Research Support Group

2019 Yuanxuan Yan, University of Leeds, Research Support Group

2019 Eugeni Vidal Tortosa, University of Leeds, Research Support Group

PROFESSIONAL EMPLOYMENT

YouGov, Senior Researcher, 2010–2011

Leicestershire County Council, Research Officer, 2008–2010

QA Research, Research Executive, 2006–2008

Updated June 2026