

DR ED MANLEY

EDUCATION

- 2014 – Present **Institute of Education, United Kingdom**
Professional Certificate in Teaching and Learning in Higher and Professional Education
- 2010 – 2013 **University College London, United Kingdom**
EngD in Urban Sustainability and Resilience.
Thesis titled 'Modelling Driver Behaviour to Predict Urban Road Traffic Dynamics', supervised by Prof Tao Cheng and Prof Alan Penn.
- 2009 – 2010 **University College London, United Kingdom**
MRes with Merit in Urban Sustainability and Resilience.
- 2005 – 2006 **University of Leeds, United Kingdom**
MSc with Merit in Multidisciplinary Informatics with Geoinformatics.
- 2001 – 2004 **University of East Anglia, United Kingdom**
BSc with First Class Honours in Business Information Systems.

EMPLOYMENT

- 2014 – Present **University College London, United Kingdom**
Lecturer in Smart Cities
Leading research initiatives on urban behaviour research. Teaching on the MSc in Smart Cities and BAsc Arts and Sciences courses. Acting as a link to enterprise and industrial partners. Departmental Director of Research overseeing research and funding proposals.
- 2013 – 2014 **University College London, United Kingdom**
Research Associate – MECHANICITY Project
Using Oyster Card transaction data to analyse the behaviours of travellers on the London Underground. Research aim to improve models of traveller behaviour, with intended incorporation within large-scale simulation to assist the management and mitigation of future incidents and service disruptions.
- 2013 – Present **UCL Consultants, United Kingdom**
Consultant
Involvement in research projects for external clients. Recent projects include work with Demos, to produce an interactive map of ethnicity, data visualisation training with the Home Office and Department for Transport, and the Evening Standard to map the locations of their extended distribution region.
- 2013 – Present **MapAction, United Kingdom**
Deployable Team Volunteer
On call to deploy in support of emergency humanitarian action work required in response to sudden onset disasters. Supporting humanitarian and emergency mapping duties carried out internationally by organisation.

ACADEMIC AND ADMINISTRATIVE ROLES

Member Committee Substitute on EU COST Action Project on Social Networks and Travel Behaviour.

Reviewer for Nature Scientific Reports, PLOS ONE, Environment and Planning B, Journal of Geographical Systems, Journal of Transport Geography, Computers, Environment and Urban Systems, Journal of Artificial Societies and Social Simulation, and Network Science.

Scientific Committee for International Conference on Connected Smart Cities (2015) and Second International Workshop on Citizen Sensor Networks at European Conference on Complex Systems (2013).

Organising Committee for ICWSM Digital Placemaking Workshop (2015) and First International Conference on Urban Sustainability and Resilience, University College London (2012).

Second Supervisor of three PhD students. Co-supervisor on numerous Masters and Undergraduate research projects.

AWARDS AND GRANTS

UCL Research Image of the Year – Twitter Languages of London – £250 – 2012

Early Career Researcher Bursary – Royal Geographical Society – £140 – 2011

Engineering Doctorate Full Scholarship and Stipend – EPSRC and Transport for London – £40000 – 2009 to 2013

Masters Full Scholarship and Maintenance – EPSRC – £18000 – 2005 to 2006

PUBLICATIONS

Journal Papers

Manley, E., Orr, S., Cheng, T. 2015. A Heuristic Model of Bounded Route Choice in Urban Areas. *Transportation Research Part C: Emerging Technologies*. (Accepted).

Manley, E., Addison, J.D., Cheng, T. 2015. Shortest Path or Anchor-Based Route Choice: A Large-Scale Empirical Analysis of Minicab Routing in London. *Journal of Transport Geography*.

Manley, E. Estimating the Topological Structure of Spatial Knowledge. 2015. *Applied Spatial Analysis and Policy*. 10.1007/s12061-014-9115-1.

Manley, E. 2014. Identifying Functional Urban Regions within Traffic Flow. *Regional Studies Regional Science*. 1. 1. 40-42.

Manley, E., Cheng, T., Penn, A., Emmonds, A. 2014. Combining Agent-based Modelling with Macroscopic Traffic Simulation for Large-Scale Behaviourally-Realistic Representations of Urban Traffic Flow. *Computers, Environment and Urban Systems*. 44. 27-36.

Cheng, T., Haworth, J., Manley, E. 2012. Advances in Geocomputation (1996-2011). *Computers, Environment and Urban Systems*. 36. 6. 481-487.

Manley, E. Estimating Urban Traffic Patterns through Probabilistic Interconnectivity of Road Network Junctions. *PLOS ONE*. (Under Review).

Reades, J., Demsar, U., Manley, E., Batty, M. Revisiting the City Centre: a (New) Study of Functional Regions in London using Taxi Flows. *Transactions of the Institute of British Geographers*. (Under Review).

Book Chapters

Cheshire, J., Batty, M., Reades, J., Longley, P., Manley, E., Milton, R. 2013. *CyberGIS for Analysing Urban Data*. Springer-Verlag.

Batty, M., Manley, E., Milton, R., Reades, J. *Smart London. Imagining the Future City: London 2062*. London: Ubiquity Press.

Book Reviews

Manley, E. 2014. Spatial Simulation: Exploring Pattern and Process. *Journal of Artificial Societies and Social Simulation*. 17. 2.

Media Publications

Manley, E. Identifying clusters of activity on London's roads. *Guardian Data Blog*. 27th November 2012. Available online: <http://www.guardian.co.uk/news/datablog/2012/nov/27/identifying-clusters-activity-london-roads>

Manley, E. Queen's diamond jubilee celebrations: where were the tweeting masses? *Guardian Data Blog*. 11th June 2012. Available online: <http://www.guardian.co.uk/news/datablog/2012/jun/11/queen-s-diamond-jubilee-twitter-tweeting>

Manley, E. Swearing on Twitter: where in London is worst for *#\$%!*@*?!. *Guardian Data Blog*. 4th May 2012. Available online: <http://www.guardian.co.uk/news/datablog/2012/may/04/twitter-swearing-london>

SELECTED INVITED TALKS

Modelling World, London, UK – Plenary on Big Data – 4th June 2015 – Travel paid by organiser.

Arup Executive Education, London, UK – Informatics and the City – 19th November 2014 – Paid.

Urban Design Group, London, UK – Data, Technology and Urban Design – 12th November 2014.

GeoMob, London, UK – Understanding Disruption on Public Transport Networks using Smart Card data – 17th July 2014.

Transport for London Internal Analysts Conference, London, UK – Understanding Travel Behaviour Through Big Data Analysis – 2nd July 2014.

Computational Social Science Conference, Warwick, UK – Cognitive Biases in Route Choice in Urban Areas – 11th June 2014 – Travel and Subsistence paid by organiser.

Modelling World, London, UK – Functional Resilience of the London Transport System – 5th June 2014 – Travel paid by organiser.

Mesh Conference, Toronto, Canada – Panel Discussion – 27th May 2014 – Travel and Subsistence paid by organiser.

London Showoff, London, UK – Why the Daily Mail Don't Like Our Twitter Maps (but for all the wrong reasons) – 8th April 2014.

Auto Italia, London, UK – Big Data, Social Networks, Data Selves – 12th May 2013.

Something Else for the Weekend, London, UK – The Geography of Twitter – 11th May 2013.

Twitter, San Francisco, USA – The Geography of Twitter – 16th April 2013.