

GISRUK 2024 | University of Leeds

2024.gisruk.org

Denim | Herringbone | Merchant Hall | Tweed | Other

ECR Workshops

Tue 9th April

WHEN	WHAT	R
ECR WORKSHOP		
1400-1430	Welcome	i
1430-1530	Workshop 1 <i>Guide To Publishing</i> – Paul Norman	i
1530-1600	Coffee Break	i
1600-1700	Workshop 2 <i>Building Impact Into Your Research</i> – Fran Pontin	i
ECR SOCIAL		
1830-	Dinner+Social	i

Wed 10th April

WHEN	WHAT	R
ECR WORKSHOP		
1000-1200	Workshop 3 <i>Navigating The Night: A Hands-On Workshop With Night Lights And Spatial Data In R</i> – Elisabetta Pietrostefani	i

GISRUK Conference

WHEN	WHAT	R
GISRUK OPENS		
1100-1300	Registration+Lunch	i
1300-1330	Welcome	i
1330-1430	Keynote 1 <i><Talk Title...></i> – Natalia Tejedor Garavito, University of Southampton	i
GISRUK SESSION 1		
1430-1530	Spatial Modelling 1 <i>Analysing Shooting Incidents In New York Using Spatial Regression Techniques</i> – Chris Brunsdon <i>Flexura: An Open-Source R Package To Flexibly Reconstruct The Degree Of Urbanisation Classification.</i> – Céline Van Migerode, Ate Poorthuis, Ben Derudder <i>"The Great Burbury Pie" – Or ~ Focal Area Bias In Geographically Weighted Analysis</i> – Jonny Huck, Matt Dennis, SM Labib	i
1430-1530	Green Neighbourhoods <i>The Walkable Accessibility Score (Was): A Spatially-Granular Open-Source Measure Of Walkability For The Continental Us From 1997-2019</i> – Kevin Credit, Irene Farah, Emily Talen, Luc Anselin, Hassan Ghomrawi <i>Exploring The Spatial And Built Environmental Characteristics Of Residential Solar Photovoltaic Implementations In Luxembourg</i> – Alexander Skinner, Catherine Jones <i>Towards A National Low Traffic Neighbourhood Dataset</i> – Chris Larkin, Craig Robson, Alistair Ford	i
1530-1600	Coffee Break	i
GISRUK SESSION 2		
1600-1700	Visualization <i>Gridmapp: An R Package For Creating Small Multiple Gridmap Layouts</i> – Roger Beecham <i>Evaluating Map Projections For Globe Production</i> – Jonny Huck <i>Extending The Moran Scatterplot By Indications Of Critical Values And P-Values: Introducing The Moran Seismogram And The Drop Plot</i> – René Westerholt	i
1600-1700	Environment <i>Habitat Connectivity Workflow To Support Decisions And Trade-Offs Between Local Stakeholders</i> – Vitaly Kryukov, Lucy Baslin, Ivette Serral, Joan Masó <i>Mapping The Connectivity Of Higher Potential Naturalness Areas In The Uk</i> – Steve Carver, Jonathan Carruthers-Jones <i>Landscape Perceptions In The Lake District: Distant And Close Reading In Participatory Gis</i> – Timma Denwood, Joanna Taylor, Jonny Huck	i
GISRUK SOCIAL		
1700-	Conference reception (see website for post-reception socials)	i

Thu 11th April

WHEN	WHAT	
GISRUK SESSION 3		
0930-1030	Spatial Justice <i>Bringing Moral Clarity To Urban Planning: Developing Data-Driven Metrics Of Spatial Justice For Neighbourhood Accessibility</i> – Ruth Nelson, Martijn Warnier, Trivik Verma <i>Leveraging Machine Learning And Street View Imagery To Study The Association Between Social Inequalities And Visual Walkability In The South Africa Context</i> – Lingshan Li, Stephen Law <i>Spatial Empowerment: Participatory And Computational Mapping In El Mina's Neighbourhoods</i> – Elisabetta Pietrostefani	i
0930-1030	Social Media <i>Understanding The Local Spatial And Temporal Patterns Of Attitudes Towards Immigration Using Twitter Data</i> – Matt Mason, Francisco Rowe <i>After The Twitter X-Pocalypse: Approaches To Characterising Human Behaviour In Agent-Based Models And Beyond</i> – Kirsty Watkinson, Jonny Huck <i>Can Twitter (X) Be Used To Predict Tourism Patterns? Yes!</i> – Raidah Hanifah, Nicholas Malleson, Victoria Houlden, Alexis Comber	i
1030-1045	Coffee Break	i
GISRUK SESSION 4		
1045-1145	Greenspace <i>Time In Nature Reduces Socioeconomic Inequalities In Child Mental Wellbeing.</i> – Fiona Caryl, Paul McCrorie, Natalie Nicholls, Jonathan Olsen, Richard Mitchell <i>A National Assessment Of Park Quality Across Great Britain</i> – Jessica Hepburn, Fiona Caryl, Jonathan Olsen, Rich Mitchell <i>Identification Of Green Corridors As A Type Of Urban Green Spaces.</i> – Irada Ismayilova, Sabine Timpf	i
1045-1145	Neighbourhood Analysis <i>Capturing High Street Dynamics On A Finer Scale: A Case Study In The Context Of Covid-19</i> – Xinglei Wang, Jia Shi, Tao Cheng <i>Leveraging Advances In Large Language Models For Neighbourhood Delineation In The London Housing Market</i> – Vlad Tesniere, Stephen Law <i>Do Good Schools Really Push Up Property Prices? Disentangling School And Neighbourhood Effects With Empirical Evidence From Brighton, England</i> – Josiah Tan, Adam Dennett	i
1045-1145	Ecology <i>A Spatially Explicit Model Of Beaver River-Floodplains: Understanding Drivers And Mapping Opportunities For Restoration.</i> – Matt Dennis, Christof Angst, Josh Larsen, Annegret Larsen <i>Automatic Detection Of Native Invasive Rush Species With Aerial Imagery And Deep Learning</i> – Oliver King, Duncan Whyatt, Ce Zhang, Carly Stevens <i>Construction Of Ecological Corridors In Karst Areas Based On Ecological Sensitivity And Ecological Service Value</i> – Yixuan Liang, Dafang Wu	i
GISRUK LUNCH POSTERS KEYNOTE		
1145-1330	Lunch + Posters	i
1330-1430	Keynote 2 <i><Talk Title...></i> – Michelle Morris, University of Leeds	i
GISRUK SESSION 5		
1430-1530	Earth Observation <i>Improving Deep Neural Net Aerial Lidar Point Cloud Object Classification Accuracy Using A Second Processing Pass</i> – Fauzy Othman, Phil Bartie <i>Introducing Overture: A Cloud-Native Global Map</i> – Matt Travis, Tomas Holderness, John Powell, Mark Varley <i>Is A (Satellite) Image Worth A Thousand Data Points? Comparing Machine Learning Approaches For Predicting Social And Environmental Inequalities Across England.</i> – Antje Barbara Metzler, Martin Fleischmann, Anna Zanchetta, Jon Yang, Stuart Lynn, Dani Arribas-Bel	i
1430-1530	Transport Sensors <i>Towards Situational Awareness Of Urban Pedestrian Flows: An Assessment Of Data Quality On The Performance Of Predictive Models</i> – Carrow Morris-Wiltshire, Stuart Barr, Phil James <i>Managing Variability: A Sensitivity Analysis Approach Applied To Mobile App Data</i> – Nilufer Sarı Aslam, Zhong Chen, Yikang Wang <i>Deriving Flow Patterns From Gps In-App Mobile Phone Data</i> – Mikaela Mavrogeni, Paul Longley, Justin Van Dijk	i
1430-1530	Health <i>Developing The First Multi-Dimensional Measure Of Access To Health-Related Features For Warsaw, Poland</i> – Michał Iliew, James Cheshire <i>Identifying Areas Of Poor Health Outcome Risk Due To Food Insecurity – A Geographically Weighted Regression Approach</i> – Ahmad Amrash, Fran Pontin, Emily Ennis, Alexander Hambley <i>Investigating The Impact Of Housing Energy Efficiency On Indoor Environment At The Overheating Summer – A Study In Southwark, London</i> – Yunbei Ou, Congying Hu, Qunshan Zhao	i
1530-1600	Coffee Break	i
GISRUK SESSION 6		
1600-1700	Labour Markets and Cities <i>A Geospatial Analysis Of Job Satisfaction And Wfh Trends In The Uk During Covid-19</i> – Chuang Liu, Danat Valizade, Tao Cheng <i>From The Beer Orders To Last Orders – Legislation, Taxation And The Modern Beer Landscape Of London</i> – Adam Dennett, Jakub Wyszomierski, Steven Gray NA	i
1600-1700	Public Transport <i>Origin-Destination-Based Public Transport Connectivity Measures For Enhancing Service Equity</i> – Howard Wong, Ed Manley <i>Creating A National Classification Of The Level Of Bus Service Provision: A Case Study Of Wales</i> – Scott Orford, Sam Jones, Andrew Price, Jeff Morgan <i>An Open-Source Web-Based Solution For Interactive Assessment Of Accessibility Via Public Transport</i> – Liam Webb, Gary Higgs, Mitchel Langford	i
GISRUK SOCIAL		
1830-	Conference reception	i

GISRUK 2024 | University of Leeds

2024.gisruk.org

Denim | Herringbone | Merchant Hall | Tweed | Other

GISRUK Conference

Fri 12th April

WHEN WHAT

R

GISRUK SESSION 7

0930-1030 Water

i

Designing A Tank Prioritisation Index For Sri Lanka: A Geospatial Approach

– Fulvio Lopane, Yi Rong Hoo, Qiao Wang, Mohammad Shamsuddoha, Aroha Bahuguna, George Joseph

Closing The Gap: A Spatially Targeted Approach To Water Point Rehabilitation In Tanzania

– Andrew MacLachlan, Sophie Ayling, Aziz Mutabazi, Singilole Mwamwaja, Fravious Kalisa, Aidan Coville, Jerome Sansonetti, George Joseph, Ruth Kennedy Walker, Toyoko Kodama

Spatial Patterns Of Tank Decline And Rejuvenation In The Kaveri River Catchment, South India

– Charlotte Evans, Jonny Huck, Matthew Dennis

0930-1030 Spatial Modelling 2

i

Analysing Global Policy Responses To Covid-19: An Agent-Based Model To Explore The Stringency In Policies

– Joyita Chakraborty, Nicolas Malleson

Disaggregating Census Data For Population Mapping Using A Bayesian Additive Regression Tree Model

– Ortis Yankey, Utazi Chigozie, Christopher Nnanatu, Assane Gadiaga, Thomas Abbot, Attila Lazar, Andrew Tatem

Using A Spatial Statistical Model To Explore Voting Behaviour In The UK 2019 General Election

– Kevin Horan, Katarina Domjan, Chris Brunsdon

1030-1045 Coffee Break

i

GISRUK SESSION 8

1045-1145 Climate Solutions

i

From Birmingham To The West Midlands: Scaling Up Climate Risk And Vulnerability Mapping

– Sarah Greenham, Emma Ferranti, Nick Cork, Stephen Jones, Jian Zhong, Bethany Haskins, Nick Grayson, Simon Needle, Joe Acton, Rob MacKenzie

Modelling The Cooling Effects Of Urban Canals

– Matthew Tomkins, Harry McDonald, Jonathan Huck, Joanne Tippett, Stephanie Elliott, Eoin Harris, Cem Maxwell

Dynamic Wildfire Risk Modelling

– Abdelrahman Ibrahim, Lex Comber, Steve Carver, Stuart Hodkinson

1045-1145 Transport Methods

i

Interrogating The Spatio-Temporal Dynamics Of Urban Footfall Using Principal Component Analysis

– Nick Malleson, Jack Liddle

A Deep Learning Framework For Missing Information Imputation In Traffic Crash Records

– Wilson Gao, Xinkie Jiang, James Haworth, Huanfa Chen, Ilya Ilyankou

Reproducible Methods For Network Simplification For Data Visualisation And Transport Planning

– Robin Lovelace, Zhao Wang, Will Deakin, Josiah Parry

1145-1200 Coffee Break

i

CLOSE

1200-1300 Keynote 3

i

<Talk Title...>

– Levi Wolf, University of Bristol

1300-1330 Awards and Close

i

GISRUK SI

– Environment & Planning B Urban Data:Code, see 2024.gisruk.org/si/

Awards

- GISRUK Best Paper, see 2024.gisruk.org for voting
- GISRUK & OSGeo:UK GoFundGeo Award, see 2024.gisruk.org/osgeo/
- CASA Best Spatial Analysis Paper, in mem. Sinesio Alves Junior (1967-2010)

Main venue

– Cloth Court Hall, Cloth Hall Court, Quebec Street, LS1 2HA

Dinner venue

– The Faversham, 1-5 Springfield Mount, Woodhouse, Leeds LS2 9NG

GISRUK Posters: Thu 11th April

Posters: Thu 11th April, 1145-1330

WHEN WHAT

GISRUK POSTERS

1145-1330 Poster session

Regional Characterisation Of The Green Energy Transition Potential In North And West Africa Based On

The Pestel Model And Spatial Clustering

– Xuan Zhu, Lian Wu, Fang Lee Cooke

Defining Short-Term Rental Market Indicators: A Method Based On Airbnb Daily Scrapings

– Yang Wang, Mark Livingston, David McArthur, Nick Bailey

Comparing Locals, Non-Locals, Perceptions Of Places Via Social Media Reviews

– Qingya Cheng, Rui Zhu, Richard Harris

The Changing Value Of Energy Efficiency In UK Homes: A Spatial Matching Approach With Hedonic Models

– Jing Zhang, NA

Can The Detection Of Roman Roads Be Automated With The Application Of GeoAI?

– Ian Turton, NA

Mixing And Movement: Socio-Economic Predictors Of Social Contact Levels Before, During And After The Covid-19 Pandemic In East Zimbabwe To Inform Spatial Modelling

– Sarah Wise, NA

Relating Biodiversity With Human Population Health: An Ecological Study Across England

– Philip Home, Sabrina Li, Doreen Boyd

Predict The Probability Of An Area Having A Certain Level Of Health Based On Socioeconomic Factors By Machine Learning Models

– Yiyi Li, NA

Cluster Analysis Of E-Scooter Accidents In London Between 2018-2022

– Fajrun Wahidil Muhamarram, Ade Febri Sandhini Putri, Muhammad Wahyudin Ramadhan

Predicting Urban Expansion In Land Use In Chiang Mai Using A Multi-Layer Perceptron-Markov Chain Model

– Chudech Losiri, NA

Integrated Assessment Of Simultaneous Threshold Exceedance Of Heat, Air Pollution And Airborne Allergenic Pollen Across Europe

– Bernice Scholten, Blaize Kelly, Bas Henzing, Anjeeka Pronk, Martijn Blom, Lisa Kloos, Boris Kingma

A Machine-Learning-Based Green View Index Incorporating Vegetation Type And Measuring Its Association With Street-Level Land Surface Temperature In London

– Yanbo Liu, Stephen Law

Improving Bicycle Routing By Modifying A Road Network

– Pablo Llórente, Jukka Kräpp

Using Spatial Agent-Based Modelling To Simulate Healthier Urban Development And Healthier Travel Behaviour: Model Design

– Heeseo Kwon, NA

Analysis Of Deforestation And Co2 Emissions In Indigenous Territories Of The Brazilian Amazon

– Kate Booth, Celso H. L. SilvaJunior, Jonathan Huck, Polyanna da Conceição Bispo

Using Machine Learning To Improving Settlement Classification Method Of Urban Landscape

– Wole Ademola Adewole, Ortis Yankey, Edson Utazi, Chris Lloyd, Samantha Cockings, Andrew J Tatem

Geospatial Driving Factor Analysis On The Synergy Between Air Pollution Control And Carbon Mitigation In China

– Man Guo, Baozhang Chen, Nicholas Hamm

The Circles Of Mobility: A Holistic Exploration Of Mobility Behaviours In The Netherlands

– Clara Peiret-Garcia, Haekal Akbar Kartasasmita, Rachel Franklin, Trivik Verma

Assessing The Suitability Of Photogrammetric 3D Reconstruction By Open-Source Pipeline For Tunnel Condition Monitoring

– Diljahan Kappachali, Jan Boehm, Fabio Panella

Towards More Effective Data Visualisation Of Health Inequalities: Seven Key Questions

– Rob Davidson, James Cheshire

Perceptions Of Covid Safety Measures In Vacation Rental Guest Reviews

– Favour Aghaebe, Dustin Foley, Eric Atwell, Stephen Clark

Shifting Work Landscapes: An Analysis Of Post-Pandemic Work From Home Patterns In The UK

– Hanying Li, Fangzhou Zhou, Xinglei Wang, Tao Cheng

Exploring The Requirements For Charging Infrastructure For Electrical Heavy-Goods Vehicles With Agent-Based Modelling

– Wenhua Jiang, Nicolas Malleson, Mark Birkin

Speed And Acceleration Behaviours Across Active Car Vehicles In Leeds, UK

– Long Chen, Ed Manley



An ESRC Data Investment

