

Supporting Post Pandemic Recovery and Resilience Through New Forms of Data

A knowledge exchange from researchers from the Geographic Data Science Lab (GDSL) and the Korean Research Institute for Human Settlements (KRIHS)

7 – 10th November, 2022, Liverpool Science Park



An ESRC Data Investment



Supporting Post Pandemic Recovery and Resilience Through New Forms of Data

Monday 7th November

12:00 – 13:00

GDSL/KRIHS
Lunch

13:00 – 15:00

GDSL/KRIHS
Introductions

15:00 – 16:30

Digital Innovation
Facility Tour

End of Activities

Tuesday 8th November

10:00 – 10:30

Welcome & Introduction

10:30 – 12:30

“Let the Data Speak”
Keynote and
Research Presentations

13:30 – 14:30

Data Challenge
Planning Session

15:00 – 16:00

Data Demo:
Spatial Signatures

Social

Wednesday 9th November

12:00 – 13:00

*“Making Data work for
Health and Place”*
Keynote Presentation

13:30 – 15:00

Lightning talks (Part 1)

15:30 – 17:00

Lightning talks (Part 2)

End of Activities

Thursday 10th November

9:00 – 10:30

Lightning talks (Part 3)

11:00 – 12:30

Lightning talks (Part 4)

13:00 – 14:00

*“Movement Data for
Analysing Pandemic
Behaviour”*
Keynote Presentation

End of Activities



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Monday 7th November *Welcome Day*

12:00 – 13:00 GDSL/KRIHS Lunch

Venue: Roxby Building, 9th Floor Common Room

13:00 – 15:00 GDSL/KRIHS Introductions

Venue: Roxby Building, Seminar Room 101

Chair: Jennie Gray, Postdoctoral Researcher

15:00 – 16:30 Digital Innovation Facility Tour

Venue: Departing from Roxby Building at 15:00

End of Activities



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Tuesday 8th November “Let the Data Speak”

10:00 – 10:30 Welcome and Introduction

Venue: Ada Lovelace Room, Liverpool Science Park

Speaker: Alex Singleton, Professor of Geographic Information Science (GDSL)

10:30 – 11:30 “Let the Data Speak” Keynote Presentation

Venue: Ada Lovelace Room, Liverpool Science Park

Speaker: Eunsun Im, Senior Research Fellow (KRIHS)

11:30 – 12:30 “Let the Data Speak” Research Presentations

Venue: Ada Lovelace Room, Liverpool Science Park

Speakers: Mark Green, May Chen, Jennie Gray and Zi Ye (GDSL)

Chair: Patrick Ballantyne, Postdoctoral Researcher (GDSL)

Lunch

13:30 – 14:30 Data Challenge Planning Session

Venue: Ada Lovelace Room, Liverpool Science Park

Chair: Francisco Rowe, Senior Lecturer in Quantitative Human Geography (GDSL)

15:00 – 16:00 Data Demo: Spatial Signatures

Venue: Ada Lovelace Room, Liverpool Science Park

Speaker: Dani Arribas-Bel, Professor of Geographic Data Science (GDSL)

16:00 Informal Social

Venue: tbc

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Wednesday 9th November *Recovery and Resilience (Day One)*

12:00 – 13:00 “Making Data work for Health and Place” Keynote

Venue: Ada Lovelace Room, Liverpool Science Park

Speaker: Ian Buchan, Associate Pro Vice Chancellor for Innovation, University of Liverpool

Chair: Francisco Rowe, Senior Lecturer in Quantitative Human Geography (GDSL)

Lunch

13:30 – 15:00 Lightning Talks (Part 1)

Venue: Ada Lovelace Room, Liverpool Science Park

Chair: Ron Mahabir, Lecturer in Geographic Data Science (GDSL)

1. **Pillsung Byun**, Managing Director (KRIHS)
2. **Francisco Rowe**, Senior Lecturer (GDSL)
3. **Danial Owen**, PhD Student (GDSL)
4. **Yohan Chang**, Team Manager (KRIHS)
5. **Natalie Rose**, PhD Student (GDSL)

15:30 – 17:00 Lightning Talks (Part 2)

Venue: Ada Lovelace Room, Liverpool Science Park

Chair: Ron Mahabir, Lecturer in Geographic Data Science (GDSL)

6. **Mark Green**, Reader (GDSL)
7. **Myung-Hwa Hwang**, Research Fellow (KRIHS)
8. **Cammy Acosta**, PhD Student (GDSL)
9. **Carmen Cabrera-Arnau**, Lecturer (GDSL)
10. **Olivia Horsefield**, PhD Student (GDSL)

End of Activities

Supporting Post Pandemic Recovery and Resilience Through New Forms of Data

7th – 10th November 2022, Liverpool Science Park

Thursday 10th November *Recovery and Resilience (Day Two)*

9:00 – 10:30 Lightning Talks (Part 3)

Venue: Ada Lovelace Room, Liverpool Science Park

Chair: Carmen Cabrera-Arnau, Lecturer in Geographic Data Science (GDSL)

11. Alex Singleton, Professor (GDSL)
12. Ruth Neville, PhD Student (GDSL)
13. Jae Soen Son, Associate Research Fellow (KRIHS)
14. Patrick Ballantyne, Postdoctoral Researcher (GDSL)
15. Ron Mahabir, Lecturer (GDSL)

11:00 – 12:30 Lightning Talks (Part 4)

Venue: Ada Lovelace Room, Liverpool Science Park

Chair: Carmen Cabrera-Arnau, Lecturer in Geographic Data Science (GDSL)

16. May Chen, Postdoctoral Researcher (GDSL/CDRC)
17. Gladys Kenyon, PhD Student (GDSL)
18. Eunsun Im, Senior Research Fellow (KRIHS)
19. Niall Newsham, PhD Student (GDSL)

Lunch

13:00 – 14:00 “Movement Data for Analysing Pandemic Behaviour” Keynote

Venue: Ada Lovelace Room, Liverpool Science Park

Speaker: Ed Manley, Professor of Urban Analytics, University of Leeds

Chair: Alex Singleton, Professor of Geographic Information Science (GDSL)

End of Activities

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Lightning Talks

Alex Singleton - The Value of Consumer Data in UK COVID-19 Response

Cammy Acosta – SARS-CoV-2 Variants, Mobility and Air Pollution in the UK

Carmen Cabrera-Arnau – Understanding Internal Migration in the UK before and during the COVID-19 pandemic using Twitter data (*on behalf of Yikang Wang, PhD Student*)

Danial Owen – COVID-19 and Sensor Data

Eunsun Im - A Proposal for Korea-UK Cooperative Research: Geospatial Data-Driven Analyses for Coping with Complex Crisis.

Francisco Rowe – Human Mobility and Migration during COVID-19

Gladys Kenyon - The value of local urban amenities in house prices during COVID-19

Jae Soen Son - Supporting Infectious Disease Prevention Policy through Spatiotemporal Simulation Model

Mark Green - Improving the geographical targeting of SARS-CoV-2 testing in Liverpool using Location-Allocation models

May Chen – Characterising COVID-19 Morbidity Dynamic Pattern across Neighbourhoods in New York City

Myung-Hwa Hwang – Current Status and Improvement Directions of COVID-19 Outbreak Monitoring: Based on an Analysis of New Cases by Eup-Myeon-Dong in 2020 and 2021.

Natalie Rose – Essential Retailing Consumption Behaviours During the COVID-19 Pandemic: The Added Value of Spatial Data

Niall Newsham - Understanding Patterns of Internal Migration During the COVID-19 Pandemic in Spain.

Olivia Horsefield – Exploring Spatio-Temporal Patterns in Violent Crime in England during the COVID-19 Pandemic.

Patrick Ballantyne – Recent trajectories of retail centre recovery and the utility of mobility data

Pillsung Byun - KRIHS Geospatial Analytics and Monitoring Centre (GAMC), an Introduction

Ron Mahabir - Can Twitter be used to understand vaccine hesitancy?

Ruth Neville - Understanding the Impact of COVID-19 and Brexit on Inflows of International Student into UK Universities

Yohan Chang – Pure-inTention: A Study on Deep Learning-based Purpose-driven Trip Demand Estimation Model for Post-Pandemic Countermeasures