

Lenka Hasova

Curriculum vitae

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An Introduction to GIS and Remote Sensing for Environmental Policy and Management, Practical Statistics for Use in Research and Policy, and Geographic Data Science.

APRIL 2019 – SEPTEMBER 2019

ARUP

GIS Analyst & Developer

As part of the Digital Insight team, I have had a chance to collaborate on several Highways projects, providing GIS data management support and data analysis. My major contribution, has been as data science support to 'Predictive Pollution Support' project for one of the clients. I have developed a model that can identify locations with a higher risk of a pollution incident on sewage, which helped the client to redistribute their resources more effectively. This has been an extremely valuable experience and helped me to understand the real problems the company and policy makers faces on everyday bases.

FEBRUARY 2015 – NOVEMBER 2018

University of Liverpool

International Student Ambassador

The main purpose of this job is to provide help to the students that want to come study at the University of Liverpool, it includes phone calls, personal advice, administration, meet-ups, campus tours and public representation of the University of Liverpool.

EDUCATION

2019 – PRESENT	Advanced Quantitative Methods PH.D. CANDIDATE <i>University of Bristol, UK</i>
2017 – 2018	Geographic Data Science MASTERS IN SCIENCE <i>University of Liverpool, UK</i>
2015 – 2016	GIS and Remote Sensing ERASMUS EXCHANGE PROGRAM <i>University of Salford, UK</i>
2013 – 2017	GIS, Remote Sensing and Cartography BACHELORS <i>University of Ostrava, Czech Republic</i>
2013 – 2017	Grammar School with focus in Natural Sciences WITH A-LEVEL EQUIVALENT FINALS <i>Gymnazium Frantiska Palackeho, Valasske Mezirirci, Czech Republic</i>

WORK EXPERIENCE

APRIL 2022 – JULY 2022

Zsah Ltd Managed Technology Services

Geospatial Data Scientist

My most recent experience was a placement with Zsah Ltd, a company with an emerging geospatial team. As part of the placement, I've looked at topics such as accessibility modelling for Royal Mail Delivery offices, custom network building with OSM (preview on <https://lenkahas.com/post/pyrosm.html>), scalable routing algorithms and naive rush-hour time estimation. The placement helped me understand what kind of problems a third-sector company faces and allowed me to gain some experience with the geospatial data infrastructure.

SEPTEMBER 2019 – PRESENT

University of Bristol

Teaching assistant

During my Ph.D. I provided marking and teaching support to following modules; Introduction to Quantitative Geography, Spatial Modelling 1 & 2,

LANGUAGES

CZECH Native speaker

ENGLISH Fluent

COMPUTER SKILLS

ADVANCED Python, R, GIT, ArcGIS, QGIS

BASIC SQL, HTML

AWARDS, GRANTS

JOHN ODLAND AWARD (SAM STUDENT PAPER COMPETITION) (FEBRUARY 2022)

As part of the Spatial Analysis and Modeling (SAM) Specialty Group of the American Association of Geographers (AAG), I presented part of my Ph.D. research at the 2022 AAG conference. The presentation was awarader first prize in the John Odland student competition. You can watch the recording of the presentation on youtube under the title

'Lenka Hasova - Rethinking Spatial Structure of Spatial Interaction'.

GOOGLE SUMMER OF CODE 2021 (JULY – SEPTEMBER 2021)

This project extended the use of the SpInt module and PySAL library for the accessibility calculation for Competing Destination model application. Read more here: <https://lenkahas.com/post/gsoc.html>

ACCELERATED BUSINESS COLLABORATION GRANT (JUNE – AUGUST 2021)

The project engaged collaboration between Bristol University and Boots pharmacy company. It was a three month investigation into temporal changes of prescription flow network and the effect of Covid-19 restriction on patients choice of pharmacy.

JANE GOLDING SEED CORN FUNDING (MAY 2020)

This funding was supposed to be used to fund project investigating individual level movement data provided by ONS secure services. Due to the pandemic the project was postponed and then cancelled due to data availability.

DATA BRAIN PRIZE FOR WORKING ON PROJECT 'BRISTOL SOLAR POTENTIAL' (NOVEMBER 2019)

As part of Hackathon organized by Bristol Open Data & Bristol City Council, my team worked on collecting open source data and combining them into interactive map of Bristol's potential for solar energy.

FIRST PRIZE FOR CDRC MASTERS DISSERTATION PROJECT (OCTOBER 2018)

This prize was awarded by Royal Geographical Society & Consumer Data Research Centre & ESRC. My masters dissertation project looked at ways to predict prescription flows to pharmacies with Spatial Interaction Models.

EXTRA CURRICULAR

- As a member of the Quantitative Social Science research group I took on the role of organizer of the groups seminars and meet-ups.
- In August 2021 I became part of the Postgraduate Research representative for the Human Geography students. This role allowed me to help rebuild the postgraduate community after the pandemic.