Lenka Hasova

Curriculum vitae

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EDUCATION

2019 – PRESENT	**Advanced Quantitative Methods (PhD)** *University of Bristol, UK*
2017 – 2018	**Geographic Data Science (MSc)** *University of Liverpool, UK*
2013 – 2017	**GIS, Remote Sensing and Cartography, with an Erasmus year (Bc)** *University of Ostrava, CZ, University of Salford, UK*

RELATED EXPERIENCE

AUGUST 2022 – SEPTEMBER 2022

University of Bristol & Bristol One City

Research Assistant

The Bristol One City Living Rent Commission project, led by Dr Levi Wolf and Dr Alex Marsh, aimed to analyse the changes in Bristol rental market and inform Bristol policymakers on the financial burdens of rent changes on the Bristol population. As a research assistant, I supported the analysis by performing some analysis and delivering interactive maps and charts. This involved cleaning and managing the *Zoopla Property Price Data* provided by the Urban Big Data Centre (UBDC), University of Glasgow.

APRIL 2022 – SEPTEMBER 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. The company has hired me to apply the knowledge gained during Ph.D. to their projects. Using my experience in spatial interaction modelling, I applied accessibility modelling for Royal Mail Delivery offices, custom network building with OSM (example), scalable routing algorithms and naive rush-hour time estimation.

SEPTEMBER 2019 – PRESENT

University of Bristol

Teaching assistant

During my Ph.D. I provided marking and teaching support for several undergraduate and masters modules; Introduction to Quantitative Geography, Spatial Modelling 1 & 2, 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 worked on several highways projects, providing GIS data management support and data analysis. My major contribution as a data scientist was to develop a new model to predict sewer pollution incidents, which enabled the client to identify locations of high risk with more confidence.

AWARDS, GRANTS

JOHN ODLAND AWARD (FEBRUARY 2022)

As part of the Spatial Analysis and Modeling (SAM) Specialty Group of the American Association of Geographers (AAG), I was awarded first prize in the John Odland student competition for presenting my PhD research.

GOOGLE SUMMER OF CODE 2021 (JULY – SEPTEMBER 2021)

I extended the use of the SpInt module and PySAL library for the accessibility calculation for the Competing Destination model application. Read more here.

ACCELERATED BUSINESS COLLABORATION GRANT (JUNE – AUGUST 2021)

In this project, I worked in collaboration with Boots to investigate the temporal changes in prescription flows and the effect of Covid-19 restrictions on patients' choice of pharmacy.

JANE GOLDING SEED CORN FUNDING (MAY 2020)

This research investigated individual-level movement data provided by ONS secure services.

BRISTOL SOLAR POTENTIAL FUNDING (NOVEMBER 2019)

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

CDRC Masters Dissertation Project (First prize) (October 2018)

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

Publications

- PREPRINT - Hasova, L., Tranos, E. and Wolf, L.J., (2022), "Form and Function in Spatial Interaction: A New Approach to Spatial Structure"

- Hasova, L. and Wolf, L. (2022) "Proximity and distance decay", *Geographic Information Science GIS & T; Technology Body of Knowledge*, Available at:

  https://doi.org/10.22224/gistbok/2022.2.3.

Languages

Czech	Native speaker
English	Fluent

Computer skills

Advanced	Python, R, GIT, ArcGIS, QGIS
Basic	SQL, HTML

Volunteering

- As a member of the Quantitative Social Science research group, I was responsible for organising weekly group seminars and social events.

- As the Postgraduate Research representative for the Human Geography students, I helped rebuild the postgraduate community after the COVID-19 pandemic and created the geogbrowns.info website that provides information about the research community.

- I am a reviewer for the International Journal of Geographical Information Science.