University of BRISTOL

MSc
Geographical Data Science and Spatial Analytics

Postgraduate study

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A Sample of MSc Geography Dissertation Topics

MSc Geographical Data Science and Spatial Analytics

- Critically assess the value of and utilise new sources of big data for urban research.

- Identify key concepts and theories of digital transformations and smart cities

- Employ methods of spatial analysis to detect, to allow for, and to model patterns of geographical clustering

- Master and develop key data science tools as a software environment for geographic data science

- Master common data science and machine learning algorithms, tools, and data structures

- Assess and interpret the outcomes of machine learning algorithms for geographic data science

- Evaluate the relationship between core theories and concepts in city science and the emergence of smart cities and urban digital infrastructure

- Understand the main engineering concepts and principles around scientific computing and data infrastructure