

Joseph Michael Lewis

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[Josephlewis.github.io](https://josephlewis.github.io)

Education

2016 - 2017

University of Leicester

MSc in Geographical Information Science - Distinction (78%)

Relevant modules: Introduction to GIS - **75%**, Programming in R - **87%**, Earth Observation and Remote Sensing - **84%**, Spatial Information Science – **75%**, Geographical Visualisation – **67%**, GIS Research Methods in the Field – **73%**

Dissertation (80%): *The Suitability of Using Least Cost Path Analysis in the Prediction of Roman Roads in the Highland and Lowland Zones of Roman Britain.* Demonstrated the application of quantitative archaeological methods using R.

2nd prize Geographical Information Science Research Group (Royal Geographical Society)
Royal Institution of Chartered Surveyors Prize 2017

2010 – 2013

University of Plymouth

BSc (Hons) 2:1 in Applied Geology

Hereford Sixth Form College

3 A-levels: Geology, Chemistry, Environment Studies

Ludlow C of E School

11 GCSEs including Mathematics and English

Relevant Projects and Experience

GIS-based supply and demand network analysis - 74%

- Network analysis model created to suggest locations for libraries in order to maximise accessibility.
- Interpreted change in distance from demand to library locations through the use of OD cost matrixes.

Analysis of spatial patterns of vegetation from satellite-derived global maps - 90%

- Spatial patterns of vegetation from 2000-2012 in Eastern Mongolia identified using R.
- Interpreted change in vegetation amounts and its linkage to precipitation.

Technical Skills

IT

- QGIS; ArcGIS
- R
- Microsoft Office

Other Work Experience

Sept 2017 - Present

Allianz – Geospatial Analyst

- Utilised geospatial techniques to improve accumulation management and enhance pricing capabilities within the commercial account
- Optimised portfolio management through understanding spatial relationships within the account
- Improved, refined, and developed data exploitation and geospatial capabilities by leading innovation
- Automated NatCat management procedures using R

May 2015 - Aug 2016

Millward Brown – Trainee Client Executive