Joseph Michael Lewis

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Education

2016 - 2017 **University of Leicester**
MSc in Geographical Information Science - Distinction (78%)

Relevant modules: Programming in R – **87%**, Spatial Information Science – **75%**, Geographical Visualisation – **67%**

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 Experience

Data Automation and Tool Development

- Automated the processing of data to generate monthly reports used for portfolio management
- Developed bespoke flood risk accumulation zones for the assessment of flood risk across UK in order for the proactive management of new business appetite

Geospatial Predictive Modelling – Terrorism Susceptibility

- Identified and sourced explanatory factors of terrorism from published literature and previous studies
- Developed a predictive model using Random Forest to assess the terrorism susceptibility for the UK
- Findings used by stakeholders to identify areas of high risk and to drive portfolio steering

Technical Skills

IT
- R
- Python
- SQL
- ESRI / QGIS
- Microsoft Office

Other Work Experience

Sept 2017 - Present **Allianz – Geospatial Analyst**

- Lead geospatial innovation by developing and improving data exploitation and geospatial capabilities in order to support business decisions

- Engage with stakeholders to broaden awareness of data insight and identify future use cases – led stakeholder communications in the realisation of data projects

May 2015 - Aug 2016 **Millward Brown - Trainee Client Executive**