Daniel L. Roberts

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Education

Keele University, 2013 – 2014
MSc Geoscience Research Training with International Placement (predicted Distinction)
This research-based course involves a six-month working placement within the Hydro-Geophysics and NDT Modelling Unit at the University of Oviedo, Spain.

Thesis Title: Geophysical Exploration of the Cementerio del Salvador, Oviedo, Spain.

Field Research Training:

- Cementario del Salvador, Oviedo, Spain
  Lead geophysical investigator over a known Spanish Civil War mass grave.
- Charterhouse Square, London
  Conducted a geophysical investigation over a Black Death plague pit for Channel 4.
- St John's of Jerusalem Church, Hackney, London
  Investigated unmarked burials within a graveyard. Continuing research started by Keele in 2008.
- St John's Church, Keele, Staffordshire
  Opportunity to investigate marked burials within a graveyard.
- St Chad's Church, Norton-in-Hales, Shropshire
  The church's bell tower was in need of renovation, so a geophysical investigation of unmarked burials within the graveyard was undertaken in order to find an area to erect scaffolding.

Modules Include: Postgraduate Research Skills (LSC-40043) (79%), and International Research Report (LSC-40045).

Keele University, 2010 – 2013
BSc Geology AND Physical Geography (2.2) *Degree accredited by the Geological Society of London*

Dissertation Title: The Geology of Carrock Fell area, with emphasis on geophysical techniques (2.1)
The project contained a two week geophysical site investigation within Carrock Fell, Cumbria, to detect mineral veins. Data was processed and outcomes helped produce a 12,000 word dissertation and a 3 km^2 geological map.

Study Abroad: I was given the opportunity to study at the University of Utah for six months. I lived in Salt Lake City and completed modules in Geomorphology: Mountains, Rivers and Deserts (1), Remote Sensing (2.1), Earth Materials, and Volcanic Hazards.

Field Trips: Northumberland (7 days), Iceland (10 days), Spain (7 days) and South West Wales (7 days). Appointed group leader for research in Iceland to measure glacial recession at Sólheimajökull.

Modules Include: Hydrological and Engineering Geology (ESC-30032), Independent Field Project (ESC-30026), Natural Hazards (ESC-30009), and Geoscience Field Techniques (ESC-20040).

Relevant Work Experience

Researcher, Hydro-Geophysics and NDT Modelling Unit, Spain   Jan 2014 – Present

Actively researching industry standard geophysical techniques, undertaking geophysical surveys, whilst providing my assistance and expertise on numerous near-surface geophysical research topics.

- Conducting ground-penetrating radar and electrical resistivity (both fixed and offset) surveys of subsurface infrastructure, and subsequently processing and analysing the data.
- Analysing previously collected ground-penetrating radar, electrical resistivity (offset) and site survey data in order to create reports and present my findings to the team.

Demonstrator, Keele University, Keele   Sept 2013 – Present

Providing experience and expertise in a numerous amount of topics for undergraduate students on courses such as: Forensic & Historical Geoscience (ESC-20054) and Introductory Geology for Environmental Science (ESC-10042).

- Practical experience in setting up and demonstrating a range of geophysical equipment.
- Assisted up to 30 undergraduate students to guide them through their work whilst informing them how to use such software as ArcGIS, Microsoft Excel, PowerPoint and Word.
- Hosted a geophysical field excursion on Keele University's campus to detect buried pig cadavers which was the basis for their report.

Forensic Geophysics Research Assistant, Keele University, Keele
Sept 2013 – Present

Providing assistance in both the field and laboratory, conducting geophysical surveys, analysing the data and giving my advice and expertise to my peers in current research projects.

Additional Skills

Geophysics: AGI SuperSting with Swift ERI, Bartington Instruments MS2, Campus Tigre ERI, Geonics EM31-MK2, Geoscan RM15-D, Leica Runner 20 Automatic Optical Level Kit, Leica TPS1200 Total Station, MALÅ GPR ProEx System, Proton Magnetometer, pulseEKKO 1000 GPR, Very Low-Frequency (VLF) Method, and Worden Gravimeter.

IT: AutoCAD, ArcGIS, CorelDRAW, EarthImager (1D, 2D & 3D), GEOPLOT, Microsoft Office, Photoshop, RADAN GPR, and ReflexW GPR. Highly proficient using Linux, Windows and MacOSX.