

Richard Hargreaves

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Education

2017 – 2018 University College London

Predicted a Distinction in MSc Geographical Information Science

Units covered include:

- GIS principles & technology – Applying learnt analysis within ArcGIS and Python to solve real problems.
- Principles of spatial analysis – The use and implementation of R statistical package for spatial analysis.
- Web and mobile GIS – Apps and programming, languages include HTML5, CSS, JavaScript and Swift.
- Spatio-temporal analysis and data mining – Techniques for big data mining and machine learning.
- Spatial databases and data management – Creation and management of data using SQL and NoSQL.
- Applied building information modelling – Capture and processing of 3D data for BIM, CAD and 3D GIS.
- Mapping science – Theory covering the general concepts and techniques of geomatics.
- Representations, structures and algorithms – Theory covering GIS data types and their manipulation.

2014 – 2017 University of Portsmouth

First Class Honours Degree in BSc Geography

GIS units include:

- Introduction to geographical information systems (Level 4).
- Geographical information systems and remote sensing (Level 5) at a 1st Class mark.
- Geographical information systems in the workplace (Level 6) at a 1st Class mark.
- Databases for GIS (Level 6) covering SQL databases at a 1st Class mark.

Fieldwork units:

- Residential field class (Level 5)

Two week fieldtrip to the Kevo Sub-Arctic Research Institute, situated at the northern most tip of Finland, within the Arctic Circle. While the second week was used for Level 5 unit work, the first week was used for the collection of spatial snow property data across the valley system, used for my dissertation, which was subsequently graded at a 1st Class mark.

- Cold environments (Level 6)

10 day fieldtrip to Mount Washington, New Hampshire. Daily fieldwork was carried out with temperature, wind and light transects set up across the mountain, as well as a visit to the summit. Here I have mapped wind speeds and averages across transects and the summit.

Vandyke Upper School, Leighton Buzzard

2011 – 2014 A-Levels

I have A Levels in the following subjects: History (B), Geography (C), General Studies (C), Mathematics (D).

2007 – 2011 GCSEs

13 GCSE pass grades A to C, including grade A in mathematics and grade B in English.

Work experience

Student Ambassador – University of Portsmouth – October 2014 to July 2017

Student Marketing Assistant – University of Portsmouth – January 2014 to July 2017

School Cleaner – Vandyke Upper School – September 2011 to May 2014

Customer Service and IT technician – The Model Railway Store – May 2009 to May 2014 – P/T and F/T

Voluntary experience

Contributor to the Humanitarian OpenStreetMap efforts – October 2015 to Present

Skills

- Extensive experience with various GIS programs including ArcGIS suite, ERDAS Imagine, Quantum GIS, Golden Software Surfer, Oracle Developer, SQL+, SPSS, R and Python.
- Strong teamwork and leadership skills developed and exercised during but not limited to my two fieldwork units.
- The ability to form and present various datasets, forming appropriate recommendations.
- Experienced in interpersonal skills, for use with both colleagues and clients.
- Time management for fast turnaround of work.

Relevant Experience

Throughout my degree I have engaged with a variety of GIS programs as listed above, however I have also developed a range of transferable skills. Developing my presentation skills from school and my role as head boy in sixth form continued throughout my degree, one example that comes to mind is a group presentation at level 5 whereby information regarding Portsmouth and the urban heat island effect was presented. As well as input on the contextual work, I developed both the statistical analysis of data collected in the field and the spatial and temporal analysis and representation of this data. This piece of work was graded a first. Aside from my degree experience, I have worked as an Ambassador for the University of Portsmouth since my first year. This role of student ambassadors, my main role was the facilitation, management and organisation of workshops for all ages from year 5 to year 13. I regularly organise and ran workshops which provide an understand of life on campus. This includes giving comprehensive university tours, and taking a lead role in outreach work within schools in the local community. One such workshop I planned and delivered was a GIS mapping day. This day focused on emergency open source mapping, using Humanitarian Open Street Map. Allowing a group of year 10s to participate in real time mapping of a hazard impacted area. As part of planning of the day, I made a visit to the red cross and Médecins Sans Frontières in London, where I experienced the use of open street map in the office as well as user development for the portal mapping system. I then delivered the workshop to 15 students and staff. The day was successful in engaging students and resulted in them leaving with valuable skills in basic cartography. By the end of the day students were confident in the mapping ability, and were working in a similar way to that of professionals.

Other Interests:

I have a keen interest in rock climbing and mountaineering, during my time at Portsmouth was both a regular member and treasurer for the university club. As well as the weekly sport and social aspect of the club, we organised various trips throughout the year. These including outdoor climbing in the Peak District and mountaineering in Snowdonia. Another sport I regularly participate in is road cycling. I am current a member of the university club, riding weekly and occasionally participating in rides for charity.

References:

Nicholas Pepin – Level 6 personal tutor at University of Portsmouth

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Emilie Smith – Education liaison and outreach at University of Portsmouth

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