

Cillian Berragan

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Graduate in *Geographic Data Science* MSc from the University of Liverpool with a distinction (82%). I am currently searching for a job that will broaden my analytical knowledge and skills, and build on my passion for data science.

Key Skills

- R:**
- Data Analysis + Preprocessing; `sf`, `tidyverse` packages.
 - Data Visualisation; `ggplot2` package, including spatial data.
 - R Markdown Notebooks; Reporting results in a readable format.
- R Projects**
- Python:**
- Deep learning; `SpaCy`, `keras` packages, familiar with deep learning pipelines.
 - Data Analysis; `pandas`, `numpy`, `geopandas` packages.
 - Data Visualisation; `matplotlib`, `seaborn` packages.
- Python Projects**
- MySQL:**
- Database querying and relational algebra.
 - Database Construction.
- QGIS & ArcGIS:**
- Client ready visualisations.
 - Survey map produced for the Environment Agency.
 - ArcMap Used professionally at TEP
- Written work:**
- Academic and professional reports.
 - One written assessment during my MSc was awarded the highest grade in that module since the university program began (98%).
 - Primarily use the Linux operating system with R Markdown or \LaTeX for written work in the Neovim text editor.
 - Touch type at 80+ wpm.

Education

2018 - 2019 *MSc Geographic Data Science* (Distinction, 82%): **University of Liverpool**

Key Modules: *Geographic Data Science, Social Survey Analysis, Database and Information Systems*

I utilised advanced techniques for geospatial data analysis in both R and Python, as well as worked with the relational database management system MySQL during this degree.

Dissertation: *Utilising Supervised Parametric Classification to Assess the Quality of the UK Rural Road Network using Aerial LiDAR Data.* (85%)

All assessments as part of this degree were awarded a distinction.

2014 - 2017 *BSc (Hons) Coastal Marine Biology* (First-Class, 74%): **University of Hull**

Key Modules: *Independent Research Project, Geographic Information Systems, Environmental Impact Assessment*

While this degree had a primary focus on coastal marine ecology it allowed me to develop a keen interest in statistical analysis, in particular through the use of the R software. I utilised R heavily in my undergraduate dissertation for which I received the prize for 'Best Dissertation' in my department.

Employment

2018 *Graduate Ecologist: TEP - The Environment Partnership*

Daily tasks involved interacting with clients both over the phone and in person on site, preparing quotations for new ecological work and subsequently managing jobs that were accepted by clients. I worked with the ArcGIS software package to produce maps for professional use.

Interests

PADI Rescue Diver with Dry Suit Qualification, at the end of 2017 I travelled around South East Asia and Western Australia logging over 40 dives.

I am interested in using R Markdown and \LaTeX to produce well formatted assessments for University and have produced an R Package containing various templates, hosted on my personal GitHub page. I am also passionate about contributing towards the open source programs I use and aim to assist as much as I can.

Updated: March 30, 2020