Cillian Berragan

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cjber.github.io/about

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R Projects

github.com/cjber

Key Skills

R:

- Data Analysis, Preprocessing, Statistics; tidyverse packages.
- Data Visualisation; ggplot2, sf packages, including spatial data.
- R Markdown Notebooks; Reporting results in a readable format.

Python: Python Projects

- Deep learning; spaCy, keras packages, familiar with deep learning pipelines.
- Data Analysis; sklearn, pandas, numpy, geopandas packages.
- Data Visualisation; matplotlib, seaborn packages.
- Object Orientated Programming.

SQL:

- Database querying and relational algebra.
- Database construction.

QGIS & ArcGIS:

- Client ready visualisations.
- Survey map produced for the Environment Agency using QGIS.
- ArcMap Used professionally at TEP.

Additional Skills: Regular Expressions, NLP, LTFX, R Markdown, Unix/Linux, Vim

Written work:

- Academic and professional reports, all at distinction standard during
- 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 上 for written work in the Neovim text editor.
- Touch type at 80+ wpm.

Education

2019 - present

PhD Data Analytics and Society: University of Liverpool

Improving the Geolocation of Emergency Service Response through Big Data

Advanced NLP with spaCy, stanza python packages. Keras implemented neural networks, pretrained models and end to end pipelines.

2018 - 2019

MSc Geographic Data Science (Distinction, 82%): University of Liverpool

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

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

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

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.

Aditional Interests

I am interested in using R Markdown and LTEX 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: April 13, 2020