

# ADAM RAWLES



## SKILLS

5+ of experience both using and teaching the R programming language. Experienced in applying various statistical methods with R. Ability to build and implement machine learning models using TensorFlow and the keras interface.

**R**

Highly skilled in data presentation and reporting. Extensive experience in data extraction from SQL databases and experience with database design and maintenance.

**Data Analysis**

Adam Rawles

## CONTACT INFO

✉ [adamrawles@hotmail.co.uk](mailto:adamrawles@hotmail.co.uk)

🔗 [github.com/ARawles](https://github.com/ARawles)

For more information, please contact me via email.

## PROJECTS

### teacheR

A book aimed at beginners to the R programming language. Hosted at <https://teacher.arawles.co.uk>. This book also forms the basis for my R course.

### opeRate

An advanced book focusing on applying R skills to data analysis projects. Hosted at <https://operate.arawles.co.uk>.

### BMRsr

An R package that provides functions to better access the Balancing Mechanism Reporting Service API provided by ELEXON. Documentation hosted at <https://bmrsrc.arawles.co.uk>.

### faviconR

An R package providing a set of lightweight wrapper functions to the [RealFaviconGenerator.net](https://RealFaviconGenerator.net) API, used to generate favicons. Updated on 2021-02-08.

Many years of experience using development-workflow tools including Git, Github and Azure DevOps Experience creating and maintaining build and release pipelines

## Development



## PROFESSIONAL EXPERIENCE

2019  
|  
Current

### Data Analyst

Guernsey Financial Services Commission

📍 Guernsey, CI

- Recreated and automated the generation of various data reports using R.
- Created a Shiny-based UI for users to interact with the report generator.
- I was the lead developer for a project utilising machine-learning and advanced modelling to improve financial regulation
- Developed and implemented a tool to flag problematic documents to supervisors based on a neural-network
- Implented a completely custom R repository that utilised automatic-building tools and a RESTful API
- Further developed and delivered R training materials ([teacheR](#) and [opeRate](#))

2018  
|  
2019

### Graduate Data Analyst

ELEXON

📍 London, UK

- Performance Assurance Review team
  - 6 months
  - Implemented a new risk simulation, utilising a Monte-Carlo methodology in R to better estimate the financial cost associated with specific risks.
- Market Analysis team
  - Automated and updated market reports, allowing them to be automatically published to the ELEXON website with custom HTML widgets to allow for greater user interaction.
  - Developed an R package to facilitate the extraction of energy-related data from the Balancing Mechanism Reporting Service API provided by ELEXON called BMRSr.
- First developed materials to teach R to beginners that would eventually become the [teacheR](#) and [opeRate](#) books.



## EDUCATION

2014  
|  
2018

### ● **Cardiff University**

First Class Honors - BSc. Psychology

📍 Cardiff, UK

Project: An Evaluation of Spatial Representations of Order and the Efficacy of Online Studies

- Designed an online and lab-based version of a cognitive psychology experiment testing the relationship between actual and represented differences between items in a list.
- Extended the functionality of the developing PsychoJS software to run the experiment online.
- Analysed the difference in responses between the online and lab versions of the study as a secondary research topic.