




# ADAM RAWLES

## PROFESSIONAL EXPERIENCE

- 2019  
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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
    - Implmented 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  
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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.

Adam Rawles

## CONTACT INFO

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 [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. This API allows access to a large repository of historical and realtime energy-related data. Documentation hosted at <https://bmrsr.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.



## SKILLS

### R

N/A/N/A

5+ of experience both using and teaching the R programming language.

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Experienced in applying various statistical methods with R

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Ability to build and implement machine learning models using TensorFlow and the `keras` interface

## Data Analysis

N/A

N/A

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Highly skilled in data presentation and reporting

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Extensive experience in data extraction from SQL databases and experience with database design and maintenance.

## Development

N/A

N/A

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Many years of experience using development-workflow tools including Git, Github and Azure DevOps

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Experience creating and maintaining build and release pipelines