

# ADAM RAWLES



## 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



## RESEARCH EXPERIENCE

June  
2017  
|  
July 2017

### SPRINT Research Assistant

School of Psychology, Cardiff

📍 Cardiff, UK

- Evaluated multiple publication bias correction methods via R-based simulations.
- Collaborated with other researchers through GitHub and Slack.

2016

### Research Assistant

School of Psychology, Cardiff

📍 Cardiff, UK

- Worked with Professor Mark Johansen to explore the relationship between paranormal beliefs and confirmation bias.
- Designed and implemented a testing methodology.

2018

### Final Year Project

School of Psychology, Cardiff

📍 Cardiff, UK

- 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.



## PROFESSIONAL EXPERIENCE

2019  
|  
Current

### Data Analyst

Guernsey Financial Services Commission

📍 Guernsey, CI

- Recreated and automated the generation of various data reports using RMarkdown and pagedown to produce interactive HTML and PDF versions.
- Created a Shiny-based UI for users to interact with the report generator.
- Spearheaded an effort to better utilise the available data for inferential statistical analysis, including clustering and regression analyses.
- Further developed and delivered R training materials ([teacheR](#) and [opeRate](#))

Adam Rawles

## CONTACT INFO

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

For more information, please contact me via email.

## SKILLS

Many years of experience both using and teaching the R programming language.

Experienced in applying various statistical methods with R, including machine learning, generalised linear modelling and Bayesian modelling.

Familiarity with JavaScript and Python.

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

R package development experience.

*Last updated on 2020-08-28.*

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.

## PROJECTS

### teacheR

A book aimed at beginners to the R programming language. Hosted at <https://teacher.arawles.co.uk>.

### 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](#) API, used to generate favicons.