

Dr. Rhian Davies

STATISTICIAN · DATA SCIENTIST · STEM COMMUNICATOR · R GEEK

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Education

University of Lancaster

PHD STATISTICS AND OPERATIONAL RESEARCH

2012 - 2017

- My thesis was titled Efficient Analysis of Data Streams.
- My research focused on online clustering, spectral clustering, classification, image processing, image segmentation and identifying points of change in time series.

University of Lancaster

MRES STATISTICS AND OPERATIONAL RESEARCH

2011 - 2012

- Covered a range of topics, including Likelihood and Bayesian Statistics, MCMC Methods, Machine Learning techniques, Optimisation and Data Mining.

University of Lancaster

BSC MATHEMATICS AND STATISTICS, FIRST CLASS

2009 - 2011

Experience

Digital Rail Ltd

DATA SCIENTIST

2018 - Present

- Develop analytical techniques and visualisation apps for the railway industry.
- Provide statistical consultancy for a broad range of clients.
- Supervise multiple projects and set up ISO9001.

Arctic Shores

DATA SCIENTIST

2017 - 2018

- Developed psychometric models for game-based assessment.
- Data processing and analysis alongside model validation.
- Support psychologists transition from SPSS to R.

Unilever Research and Development

DATA EXPERT

Mar 2015 - Sep 2015

- Established computational methods to extract features from accelerometers.
- Responsible for the processing and analysis of experimental study data.

University of Lancaster

GRADUATE TEACHING ASSISTANT

2012 - 2017

- Taught a broad range of undergraduate mathematics and statistics courses.
- Supervised practical work, specialising in R programming.

Extracurricular Activity

R-Ladies Lancaster

CO-FOUNDER & ORGANISER

2018 - Present

- Organising and delivering talks to support people using the R language.

Royal Statistical Society

STATISTICAL AMBASSADOR & FELLOW

2015 - Present

- Engaging with the media, schools and wider public to improve statistical literacy.
- Chair of the Lancashire and East Cumbria branch.
- Currently working towards CStat status.

STEMNET

STEM AMBASSADOR

2013 - Present

- Active and passionate STEM engager.
- Invited talks include Royal Institute Masterclass & Florence Nightingale Day.

Key skills

R Expertise RStudio, RMarkdown, Tidyverse, Shiny

Machine Learning Statistical modelling, Clustering, Classification

Awards & Grants

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|------|---|---------------|
| 2014 | Grant leader , STOR-i research fund - UCLID conference | £6,000 |
| 2013 | Best Paper Award , Sensor Data Fusion Workshop | Bonn, Germany |
| 2011 | Grant leader , UniBrass - Arts Council Funding | £10,000 |

Interests

Professional R programming, machine learning, data visualising, attending data science meet-ups, image processing.

Personal Cycling, fell running, knitting, orchestral percussion.