

Dr. Rhian Davies

CHARTERED STATISTICIAN · DATA SCIENCE LEADER · EDUCATOR · R GEEK

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Summary

Experienced statistician and data science leader with 15 years of R programming experience. A passionate communicator who loves helping people understand their data.

Experience

Jumping Rivers

SENIOR DATA SCIENTIST

2019 - Present

- Project lead and developer on diverse data science projects. E.g. production-ready Shiny applications, APIs and data pipelines.
- Wrote formal training courses and workshops, including Visualisation, Time Series Analysis, Spatial Data Analysis and Version Control.
- Highly rated R educator, delivering hundreds of courses and workshops across the U.K.
- Technical lead for team of eight data scientists across R & Python

Digital Rail Ltd

DATA SCIENTIST

2018 - 2019

- Developed analytical techniques for the railway industry, specialising in video analysis.

Arctic Shores

DATA SCIENTIST

2017 - 2018

- Developed and validated psychometric models for game-based assessment.
- Supported psychologists transition from SPSS to R.

Unilever Research and Development

DATA EXPERT

Mar 2015 - Sep 2015

- Established computational methods to extract features from accelerometers on experimental study data.

Education

University of Lancaster

PHD STATISTICS AND OPERATIONAL RESEARCH

2012 - 2017

- Thesis: Efficient Analysis of Data Streams.
- Research topics included online clustering, spectral clustering, classification, image processing, image segmentation and change-point analysis.

University of Lancaster

MRES STATISTICS AND OPERATIONAL RESEARCH

2011 - 2012

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

University of Lancaster

BSC MATHEMATICS AND STATISTICS, FIRST CLASS

2009 - 2011

Extracurricular Activity

Invited speaker and community leader

INTERNATIONALLY

2013 - Present

- Delivered talks and workshops at conferences, including Posit, use-R!, Rencontres R, NHS-R, SatRday, Shiny Conference, Royal Statistical Society.
- Active member of the R-Ladies community and North East tech scene, regularly presenting at meetups.

Statistical Ambassador & Fellow

ROYAL STATISTICAL SOCIETY

2015 - Present

- Engaging with the media, schools and wider public to improve statistical literacy.
- Chartered Statistician. Currently applying for Advanced Data Science Professional accreditation.

Key skills

R Expert Tidyverse, Shiny, Package Development, Visualisation, Quarto

Machine Learning Statistical modelling, Clustering, Classification, Time series, Image analysis

Software development Git, CI/CD, Project management in GitLab

Interests

Professional Automation, Data Pipelines, Project Management, Leadership in Tech, Accessibility

Personal Sea Kayaking, cycling, knitting, sewing, orchestral percussion.