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, specalising 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

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.