

Rhian Davies

STATISTICIAN · DATA SCIENTIST · STEM COMMUNICATOR

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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

- Provide statistical consultancy for a range of clients.
- Supervise student projects
- Project lead on

Arctic Shores

DATA EXPERT

2017 - 2018

- Developed psychometric models for game-based assessment.
- Data processing and analysis alongside model validation.

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

2017 - 2018

- Taught a broad range of undergraduate mathematics and statistics courses.
- Supervised practical work, including computer labs.

Extracurricular Activity

R-Ladies Lancaster

CO-FOUNDER AND ORGANISER

2018 - Present

- Present.

Royal Statistical Society

STATISTICAL AMBASSADOR

2016 - Present

- Reformed the society focusing on software engineering and building network on and off campus.

STEMNET 2013

STEM AMBASSADOR

2013 - Present

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.

RSS Lancashire and East Cumbria Local Group

ORGANISER

Sep. 2013 - Present

- Organise meetings

Key Skills

Programming

- Expert in R (Rstudio, Markdown, Tidyverse, Shiny).
- Skilled in Matlab, Python, \LaTeX and Git.

Data Analysis

- Strong statistical and computational skills developed through masterclasses with international experts.
- Industry Problem Solving Days have given me familiarity with quickly handling new data, analysing it and reporting findings.
- Contributed to report for Mathematics and Statistics department Athena Swan Bronze Award application.

Communication

- Selected as a Statistical Ambassador for the Royal Statistical Society, trained to communicate statistical concepts to a varied audience.
- Active STEM engager, including speaking at a Royal Institute Masterclass.
- Organised a conference on Understanding Complex Large Industrial Data (UCLID).

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

I'm a keen cyclist, fell runner and an orchestral percussionist.