

# Dr. Rhian Davies

STATISTICIAN · DATA SCIENTIST · STEM COMMUNICATOR · R GEEK

☎ 07805 871708 | ✉ thetrianglegirl@gmail.com | 🏠 trianglegirl.rbind.io | 📱 trianglegirl | 📺 trianglegirl

## Key Points

---

<b>Education</b>	PhD in Statistics and Operational Research.
<b>Data Science Experience</b>	Unilever, Arctic Shores and Digital Rail.
<b>Engagement</b>	Statistical Ambassador for the RSS. Regular outreach with public and schools.
<b>R Skills</b>	University R Tutor. Skilled at Tidyverse, Shiny, RMarkdown.

## 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.
- Supervision of multiple student projects.

### Arctic Shores

DATA SCIENTIST

2017 - 2018

- Developed psychometric models for game-based assessment.
- Data processing and analysis alongside model validation.
- 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.
- 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.
- Tutored R programming to undergraduates, postgraduates and industry.

## 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

## 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.
- Developed and delivered statistics summer school for college students.

## Key skills

---

**R Expertise** RStudio, RMarkdown, Tidyverse, Shiny

**Machine Learning** Statistical modelling, Clustering, Classification

## Awards & Grants

---

2014	<b>Grant leader</b> , STOR-i research fund - UCLID conference	£6,000
2013	<b>Best Paper Award</b> , Sensor Data Fusion Workshop	Bonn, Germany
2011	<b>Grant leader</b> , 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.