Rhian Davies

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. 2008 – 2011

Experience

Data Scientist, Arctic Shores 2017 - Present

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

Data Expert, Unilever Research and Development March - September 2015

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

Graduate Teaching Assistant, Lancaster University 2012 - 2017

- Taught a broad range of undergraduate mathematics and statistics courses.

Key Skills

Programming

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

Communication & Organisation

- 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).

Publications

Davies, R., Mihaylova, L., Pavlidis, N., Eckley, I. (2013). "The Effect of Recovery Algorithms on Compressive Sensing Background Subtraction". *Proceedings of the 2013 Workshop on Sensor Data Fusion, Bonn, Germany, October, 2013.*

Awards

Best Paper Award at Sensor Data Fusion Workshop (2013).

Interests

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