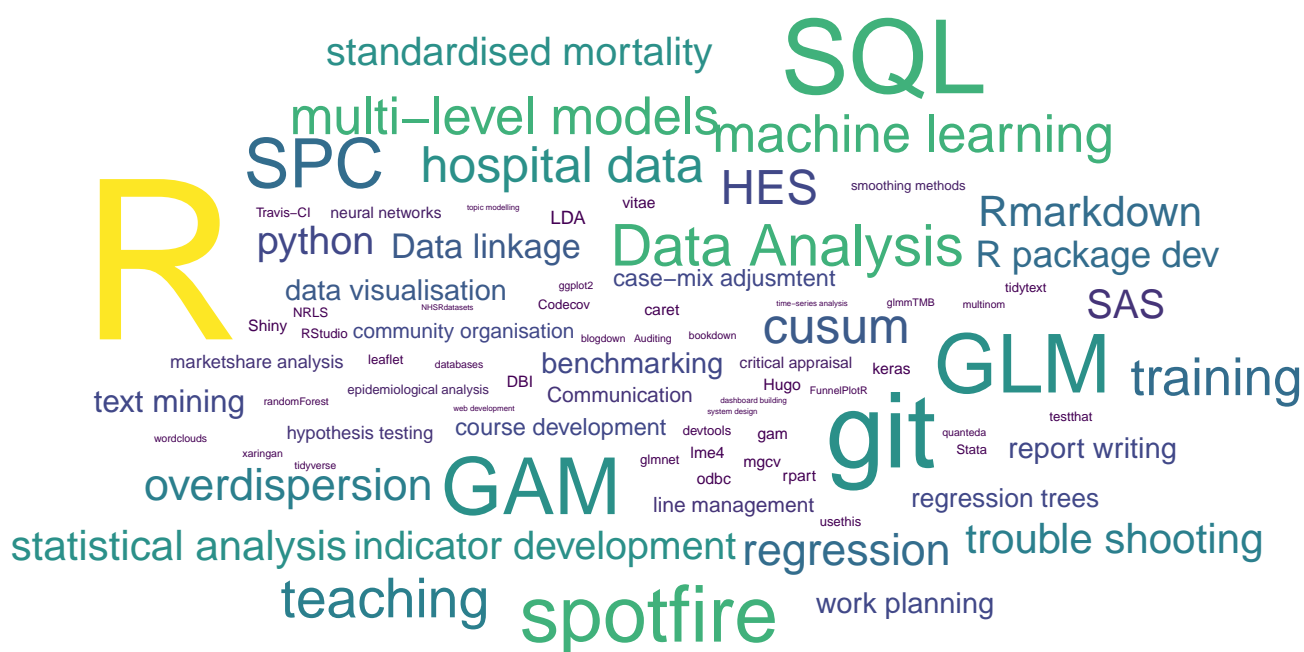


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I am an NHS Data Scientist/Statistician/Analyst in Health Informatics. I am a member of the Healthcare Evaluation Data (HED) team at University Hospitals Birmingham NHS Foundation Trust (UHB). My work focuses on modelling National Health Service (NHS) data, primarily using the national Hospital Episode Statistics (HES). I work primarily in R and SQL Server, and have experience with various statistical modelling and machine learning techniques. I have recently subitted my PhD thesis, focused on modelling methods for NHS incident reporting data, at UCL.

I advise and train hospitals, commissioners, regulators and the private sector on using data to manage hospitals, monitor mortality, performance and quality. I have a passion for using information effectively to influence policy and impact people's health and improve their hospital care. I am an experienced trainer, presenter and post-grad teacher. I have build and release several R package, and keen contributor to the NHS-R Community. I leads a local R usergroup at UHB, and run a programme of R trainig courses for HED.



2014-19	PhD Applied Statistics and Machine Learning London, UK	UCL
2014-14	PgCert. Public Health Birmingham, UK	University of Birmingham
2009	CIPD Certificate in Training Practise Coventry, UK	CIPD/City College Coventry
2002-06	BSc Microbiology with Industrial Experience Manchester, UK	University of Manchester

Employment History

2012 - NA	Intelligence Analyst University Hospitals Birmingham NHS Foundation Trust
2011 - 2012	Informatics Analyst University Hospitals Birmingham NHS Foundation Trust
2010 - 2011	Cancer Informatics Analyst Arden Cancer Network
2009 - 2010	Information Officer West Midlands Cancer Intelligence Unit

Selected Talks, presentations, and teaching experience

Talk	Implementing R use in an NHS Informatics service Enterprise Applications of the R Language (EARL)	2019
Talk	CUSUMs and Funnel Plots for reporting standardised mortality Royal Statistical Society Conference	2019
Course	Introduction to R: data manipulation, visualisation, and statistical analysis NHS Gloucestershire	2019
Talk	Statistical and Machine Learning methods for NHS Incident data The Health Foundation	2019
Talk	Dealing with noisy count data: strategies for tackling over-dispersion, using R UCL PCPH Methodology Meeting	2018
Workshop	Introduction to Statistical Process Control UHB Internal	2018
Workshop	Introduction to Statistics UHB Internal	2018
Lecture	Standardised Mortality Ratios Various NHS Trusts	-4
Seminars	Use of Evidence (MBChMB) UCL Medical School	-2
Seminars	Statistical Methods (MSc Data Science for Health) UCL Farr Institute	-2

Publications

Software

FunnelPlotR	Funnel Plots for Indirectly Standardised Ratios with overdispersion adjustment 2019
NHSRdatasets	NHS and Healthcare Related Data for Education and Training 2019