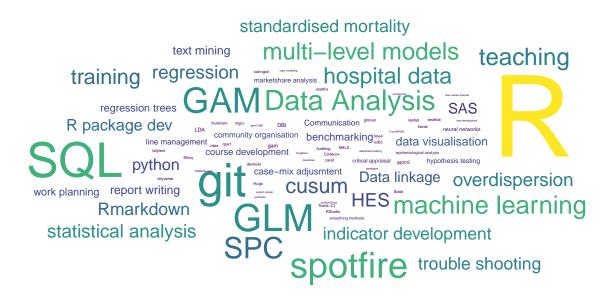
Christopher Mainey

Intelligence Analyst

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 training courses for HED.

Key skills



Education

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

Selected Talks, presentations, and teaching experience

- EARL Talk, 2019, Implementing R use in an NHS Informatics service.
- RSS $\,$ Talk, 2019, CUSUMs and Funnel Plots for reporting standardised mortality. Conference

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NHS **Course**, 2019, Introduction to R: data manipulation, visualisation, and statisti-Gloucester- cal analysis.

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Health $\,$ Talk, 2019, Statistical and Machine Learning methods for NHS Incident data. Foundation

UCL PCPH $\,$ Talk, 2018, Dealing with noisy count data: strategies for tackling over-dispersion, Methodology using R.

Meeting

UHB Workshop, 2018, Introduction to Staistical Process Control.

Internal

UHB Workshop, 2018, Introduction to Staitstics.

Internal

Various NHS $\,$ Lecture, 1995, Standaridsed Mortality Ratios.

Trusts

Publications

Education History

- 2014 2020 PhD Applied Statistics and Machine Learning, University College London, London.
- 2012 2016 PGCert Public Health, University of Birmingham, Birmingham.
- 2002 2006 **BSc Microbiology with Industrial Experience**, University of Manchester, Manchester.
- 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.