

**Dr Adrian Pratt - Principal Modelling Analyst, NHS Bristol, North Somerset and South Gloucestershire CCG**

Adrian is a modelling analyst at BNSSG CCG. He joined the NHS in October 2018, having previously worked as a mathematical modeller for Public Health England. Adrian is an experienced R user, currently applying his skills to population health management. He has a PhD in mathematics.

**Andrew Evans – Senior Office in Public Health, Birmingham City Council**

Andrew has been working in public health intelligence for 6 years and has been working extensively with R for the last 12 months to automate intelligence processes. He also chairs a West Midlands Data Science Network for public health analysts.

**Andrew Jones – Healthcare Analyst, The Strategy Unit**

Andrew works at the Strategy Unit - a healthcare consultancy operating within the NHS. Over the last 18 months, he has designed and led a series of well-received courses which introduce healthcare analysts to R and the Tidyverse.

**Andrew McCann - Lead Data Scientist, BI, Midlands and Lancashire Commissioning Support Unit**

Andy joined the NHS in September 2018 and has been working principally with the MLCSU Urgent Care Team clinicians in a number of areas, including monitoring pressure in Emergency Departments, predicting seasonal bed demand and in Length of Stay initiatives. He has been using R for the past year, mainly for forecasting daily time series as well as for visualisation and data discovery. Andy has a degree in Economics from Cambridge University and an MSc in Environmental Change. Prior to the NHS, Andy was Head of Data Analytics for a large PLC and previously ran his own economic research consultancy.



**Ben Margetts– Data Scientist, Great Ormond Street Hospital Digital Research Environment**

Ben recently completed a data science PhD focused on nonlinear mixed effects modelling of clinical time series data, algorithmic approaches to clinical audits, and applying machine learning to T cell receptor sequencing data. His professional interests include generating synthetic electronic patient record data, data visualization, and the challenges of operationalizing machine learning in the NHS.

**Ben Murch– Principal Modelling Analyst, NHS Bristol, North Somerset and South Gloucestershire CCG**

Ben is a modelling analyst at Bristol, North Somerset and South Gloucestershire CCG. He has degrees in mathematics and is an experienced R user. He is currently working on risk stratification for population health management, and simulation modelling of patient pathway capacities, and interactive dashboard design, among other projects.

**Ben Di-Mambro – Consultant Perinatal Psychiatrist, Nottingham Healthcare NHS Trust**

Ben is a Consultant Psychiatrist in the Crisis Resolution Home Treatment Teams at Nottinghamshire Healthcare NHS Foundation Trust. In addition to his clinical responsibilities, he holds interests in the transparent utilisation of data, demand and capacity management and introducing analytics into routine healthcare. He has developed a suite of applications, in the open source programme R, to deliver clinically meaningful data to frontline clinicians and senior management alike.



**Caroline Kovacs – Senior Research Associate, University of Portsmouth**

Caroline studied Mathematics at the University of Portsmouth. She is the visiting Senior Research Associate at the Centre for Healthcare Modelling and Informatics, University of Portsmouth and is also studying part time for a PhD. Caroline has attended the London R User Group since 2013 and has recently set up Portsmouth R User Group.



**Chris Beeley – Senior Analyst, Nottingham Healthcare NHS Trust**

Chris Beeley has worked in the NHS as a researcher/ analyst for 15 years and has been using R since 2008 and Shiny since 2013. He makes extensive use of R and Shiny in his work at Nottinghamshire Healthcare NHS Trust as lead analyst for staff and patient experience data, as well as providing statistical training and consultancy to analysts, clinicians, and managers within the Trust. He is the author of three editions of Web Application Development with R using Shiny.



**Chris Mainey– Intelligence Analyst, Healthcare Evaluation Data (HED) team, University Hospitals Birmingham NHS Foundation Trust**

Chris' work focuses on modelling National Health Service (NHS) data, with particular focus on HES data, standardised mortality ratios and related metrics . His PhD work was on statistical and machine learning techniques for modelling patient safety incident data using the NRLS. Chris is an experienced trainer, presenter and post-grad teacher, keen on communicating health data, statistics and ML techniques. He leads a local R user group at UHB, and is delivers R training to other NHS organisations. He is the author of the FunnelPlotR and NHRdatasets R package.

**Collin Gillespie –Co-founder, Jumping Rivers**

Colin is a Senior Statistics lecturer at Newcastle University and is a co-founder of Jumping Rivers. He has used R for over twenty years and has been teaching R for the past fifteen years. He recently co-authored the O'Reilly book on Efficient R Programming.

**David Whiting–Consultant in Public Health, Medway Council**

David is a Consultant in Public Health working for Medway Council. Previously he has worked for an NGO and in academia, working mostly in low-income countries at the interface of academic research, international development and public health. David started using R 18 years ago, with R version 1.2, limited access to the internet and no access to support (“The first two weeks were R hell”). He now leads a small team of analysts which does almost everything with R. They apply reproducible approaches to our work and automate anything that is time-consuming and boring. David also says that he a shameless R evangelist.

**Dominic Rowney – Principal Information Analyst, NHS NECS**

Dom joined NHS North of England Commissioning Support Unit (NECS) in 2014. He works as part of the information analysis projects team, being assigned to lots of different area in health and social care. He has been working on using R more and increasing his skills on and off for the last few years. His contribution to R (so far) is single vignette



**Duncan Cooper – Information Analyst, West Yorkshire & Harrogate Integrated Care System**

Duncan Cooper is an information analyst in West Yorkshire & Harrogate Integrated Care System where he supports the region's Improving Planned Care & Maternity programmes. Collaborating with the wider health system Duncan combines health and public health data to inform decision making within the NHS and improve the system's understanding of its information. He is particularly interested in the evaluation of health inequalities and developing how the effective use of information can drive system change. Duncan has often used R in his work, most recently for a project calculating standardised rates of hip replacement in West Yorkshire & Harrogate for each deprivation decile. Duncan likes to save as much time as possible by using R in his work!

**Emma Vestesson – Data Analyst, the Health Foundation**

Emma evaluates complex changes in health care. She previously worked as a data analyst for the Sentinel Stroke National Audit Programme. Emma is an avid R user both inside and outside of work and is part of the organising group for R ladies London.

**Erik Bulow – Statistician and part-time PhD student**

Erik is a statistician working part time for the Regional cancer center in Western Sweden and part time as a PhD student at the University of Gothenburg and the Swedish Hip Arthroplasty Register. His research concerns prediction modeling of post-surgery survival based on real world data available through extensive data linkage. His current project concerns validation of a Swedish model using data from the NHS-governed National Joint Register in UK.



**Fiona Grimm - Senior Data Analyst, the Health Foundation**

Fiona joined the Health Foundation in 2018 where she works on innovative analytical approaches to understand quality of care. To make her research more efficient and reproducible she first started to learn R in 2013 while working on her PhD in biomedical research and she hasn't looked back since. Both inside and outside of work, Fiona aspires to be an advocate for open source coding and inclusive data science communities and she occasionally helps to organise events for R Ladies London.



**Dr Gabriella Rustici - Associate Director of Training, Health Data Research UK**

Gabriella is Head of the Bioinformatics Training Programme of the University of Cambridge's School of Biological Sciences, which provides advanced training in bioinformatics and data science, from undergraduate to continuing professional development. Gabriella is also co-lead of the ELIXIR Training Platform where she is responsible for devising a sustainable strategy for building bioinformatics training capacity across Europe, working in partnership with a network of professionals spread across 20 European countries



**Gary Hutson - Head of Solutions and AI, Draper and Dash**

Gary is a part of a team of data scientists working to augment BI products with ML and predictive analytics for a predictive healthcare intelligence company. Previously, he worked as a Principal Analyst for Nottingham University Hospitals dealing with activity and access targets and issues. His team applied cutting edge ML and predictive techniques to address a number of key activity pressures - such as ED predictors, readmission predictors, 62 day cancer pathway predictors, system wide early scoring frameworks, forecasting tools, amongst others.



**Genesis Almanzar - Clinical Practice Group Analyst, Royal Free Hospital NHS Trust**

Genesis joined the Royal Free in January 2019, and works as a Clinical Practice Group Analyst (CPG). The CPGs have been used at the Royal Free to identify unwarranted variation in patient pathways. As a CPG analyst, measuring and identifying areas for improvements within clinical pathways are essential aspects of her role. Prior to this role, Genesis was an MSc student at UCL studying population health with a focus on advanced statistical modelling.

**Hannah Frick - Data Scientist, Mango Solutions**

Hannah Frick is a Data Scientist at Mango Solutions and holds a PhD in statistics from Universitaet Innsbruck, Austria. She has authored and maintains several R packages on CRAN. She's a co-founder of the R-Ladies Global organisation and part of the leadership team. You can follow her on Twitter @hfcfrick.

**Iryna Schlackow - Senior Researcher, University of Oxford**

Iryna is interested in questions related to chronic diseases, such as projections of long-term health outcomes, cost-effectiveness of interventions and socioeconomic aspects. She uses R to work with randomised controlled trials and routine datasets. Together with her collaborators, Iryna developed a policy model projecting outcomes in patients with chronic kidney disease and made it freely available via a Shiny interface. Iryna completed a DPhil in pure mathematics and has been a maths and LaTeX tutor for many years. She finally decided to stop the teaching but quickly found herself running R workshops for health economists.



**Jennifer Connolly - Data Analyst, Edge Health UK**

**Kathryn Dreyer - Senior Analytics Manager, The Health Foundation**

Kathryn is a Senior Analytics Manager for the Networked Data Lab at the Health Foundation. Kathryn is passionate about linked administrative data sets and curious to understand how they can help provide new insights. Prior to joining the Health Foundation, Kathryn worked as an actuary as a management consultant in private health care in South Africa. Kathryn is a relatively new R user and is enjoying the flexibility of R, as well as getting to know some the great communities around it.



**Laura Edwards Suarez - Junior Data Analyst, Nottinghamshire Healthcare NHS Trust**

Lori has worked in her current role as an analyst supporting Liaison Psychiatry since she graduated from the University of Leicester (MSc Bioinformatics with Molecular Genetics) in summer 2017. She supports Adult and Older Adult Liaison teams whom get on average 1000 referrals a month. Liaison Psychiatry has two clinical aspects. Her work is a mixture of routine reporting, publications, performance monitoring, teaching front end staff data and commissioner requests.



**Liz Matthews - Head of Community and Education, Mango Solutions**

Liz has worked for Mango for 10 years and manages their training, marketing and events. Mango's events portfolio includes the LondonR, ManchesterR and BaselR user groups as well as the EARL (Enterprise Applications of the R Language) Conference which focus on promoting R and sharing R knowledge and expertise. In recent years, Mango has worked with large companies who are setting up their own internal analytic communities. Mango is a full service certified RStudio partner and a founding member of the R Consortium.

**Lynsey Patterson - Head of Health Protection Surveillance, Public Health Agency (NI)**

Lynsey is an Epidemiologist who has specialised in Health Protection where she has acquired 12 years of experience working with surveillance data. She also holds an honorary contract with Queen's University Belfast through which she has gained experience of data linkage using routinely available datasets as well as statistical methods. Lynsey started using R just over 2 years ago and she is keen to explore how the software can be integrated into routine work to allow us to work smarter, not harder! She is also interested in how we can make R and data analytics accessible to all staff. She has used R to wrangle complex datasets (dplyr), for data visualisation (ggplot2) and for report writing (R Markdown).

**Martin Bardsley - Senior Fellow, the Health Foundation**

Martin has many years of experience as a health services researcher and analyst. His work has been mainly focussed on projects that seek to apply innovative approaches to the use of information to support decision making in health care. He has been working part-time at THF since January 2016, leading work on analytical capability. Prior to that, he spent over 7 years as Director of Research at The Nuffield Trust where he led a series of innovative projects on data linkage, predictive modelling, assessing the quality of care and the evaluation of new models of care.

**Matthew Francis - Principal Public Health Intelligence Analyst, Public Health England**

Matthew is the Principal Public Health Intelligence Analyst at PHE Local Knowledge and Intelligence Service in the West Midlands and has been an ardent user of R for around 3 years, using R for the automation of routine processes and for undertaking statistical analyses.

**Matthew Bass - Informatics Officer, Healthcare Evaluation Data (HED), University Hospitals Birmingham NHS Trust**

Matthew helps to create models with R and SQL to track hospital performance indicators for NHS trusts across the UK. He joined the HED team in April 2019 after earning a PhD in materials science from the University of Birmingham and has been using R ever since. His interests include developing machine learning models to predict healthcare outcomes and using R to interface with NHS APIs.

**Mohammed Amin Mohammed - Principal Consultant (Strategy Unit), Professor of Healthcare, Quality & Effectiveness (University of Bradford)**

Mohammed has many years of experience as a health services researcher. His work has been mainly focussed healthcare quality monitoring especially using routinely collected data.

**Neil Pettinger - Information Training Consultant, Kurtosis**

Neil Pettinger is a freelance information training consultant. He designs and delivers training courses for NHS staff that focus on how we can make better use of data in decision-making. Before he went freelance, he spent 20 years in the NHS in information and performance management roles, mainly in acute hospital settings, working in Edinburgh, London, South Yorkshire and Lanarkshire. He has an MA in Sociology from Edinburgh University, a Postgraduate certificate in Health Information Science from Warwick University and an MSc in Health Sciences and Clinical Evaluation from the University of York.



**Nic Crane - Senior Consultant, Elucidata**

Nic Crane is a Senior Consultant at Elucidata, and has formerly worked for Mango Solutions and IBM. She currently develops Shiny apps full-time, and is passionate about learning and teaching all things data science.

**Rhian Davies – Data Scientist, Jumping Rivers**

Rhian is a data scientist at Jumping Rivers. She loves using statistics to help people make data driven decisions. As a data scientist, she has worked closely with varied domain experts including physicists, psychologists, game designers and engineers. You can find her on twitter @trianglegirl

**Richard Issitt - Clinical Perfusionist and the Clinical Lead for the Digital Research Environment, Great Ormond Street Hospital**

Richard is a Clinical Perfusionist and the Clinical Lead for the Digital Research Environment at Great Ormond Street Hospital with a doctorate in cardiopulmonary bypass related neurological injury. His current interests are in the utilisation of clinical data for predictive data analytics and visualisations, and application development in the cardiothoracic setting. As such he is currently study a Data Science pathway to develop a Perfusion-Bioinformatician role in the future.

**Richard Wood - Head of Modelling and Analytics, NHS Bristol, North Somerset and South Gloucestershire CCG**

Graduating in 2011 with a PhD in mathematical healthcare modelling, Rich has worked in various roles including mathematical biology and financial risk modelling. He now runs the Modelling and Analytics team at BNSSG CCG, one of the largest healthcare systems in the country. The team was formally set up as a dedicated specialist resource in June 2018 in order to address the need to apply evidence-based and insight-driven thinking to strategic and operational decision-making. In its short history the team has led the development of a system-wide linked dataset and worked on a variety of applied projects, resulting in journal publications and conference presentations.

**Ronan Machin – Associate Consultant – Analyst, Transformation Unit**

Ronan joined the Transformation Unit two years ago as a Healthcare Analyst. He has since gained significant experience analysing public and NHS datasets, providing analytical support to transformation projects across the health spectrum. He also has a keen interest in the application of advanced modelling techniques in Healthcare, such as predictive analytics, forecasting and simulation

**Samantha Bagulay – Data Scientist, Department for Business, Energy & Industrial Strategy**

**Sean Manzi - Research Fellow, University of Exeter**

Sean is a Research Fellow with the NIHR Applied Research Collaboration South West Peninsula (PenARC) based at the University of Exeter College of Medicine and Health. He works on applied health service simulation modelling and data science projects with health and social care providers across the South West of England, nationally and internationally. The latest research Sean is undertaking focuses on whole system modelling of mental health provision. Previous projects have looked at patient flow modelling of acute psychiatric care systems, geographic modelling of out-patient physiotherapy services, testing the impact of new triage practices on memory clinic waiting times and more.



**Sebastian Zeki - Consultant gastroenterologist, Guy's and St Thomas' Hospital**

Having discovered that ranting about things was much less likely to create change than developing positive solutions through robust data analysis Sebastian has been deeply embedded in all aspects of clinical data. He has experience in the development of software in a number of languages but since his PhD in genomics has found R to be his most loyal ally. He applies R on a daily basis to the analysis of endoscopic and pathological datasets simply to make things better, safer and more predictable. He would love to recruit more clinicians to understand data science and to this end co-heads the Data Analytics in Gastroenterology committee at the British Society of Gastroenterology

**Stacey Croft - Senior Healthcare Analyst, the Strategy Unit**

Stacey makes extensive use of R in providing analytical support to major change programmes, modelling and evaluating the impact of proposed changes to healthcare services and predicting future demands. She has a Masters in Public Health from the University of Birmingham. She has previously worked in cancer intelligence and led the intelligence team at West Midlands Public Health Observatory. Her analytical interests include discrete event simulation, statistical process control and forecasting methods. Her lightning talk will be sharing the setting up of a corporate style for ggplot charts in R.

**Steph Locke – Founder of LockeData**

Steph is the founder of a consultancy in the UK and a startup helping businesses get AI ready. Her talks, blog posts, conferences, and businesses all have one thing in common – they help people get started with data science and AI. Steph holds the Microsoft MVP award in both AI and Data Platform for her community contributions. In her spare time, Steph plays board games with her husband and takes copious pictures of her doggos.

**Thomas Jemmett – Senior Healthcare Analyst, Strategy Unit**

Tom has over 10 years of experience as an Analyst within the NHS and a background in Computer Science and Pure Mathematics. He is a Member of the British Computer Society and an Associate Member of The Institute of Mathematics.

**Tom Lawton - Consultant Critical Care & Head of Clinical AI**

Tom Lawton is a former programmer, a medical doctor and head of Clinical AI at Bradford Teaching Hospitals NHS Foundation Trust, and researcher at the Bradford Institute of Health Research. He has only come to R in the last year, but has already written 25,000 lines of it (a testament to inefficiency). Lately he has been working on simulation modelling using `r-simmer`, and the use of `big data` with the Connected Bradford dataset.



**Zoe Turner – Senior Information Analyst at Nottinghamshire Healthcare NHS Foundation Trust**

Zoë Turner has worked for 6 years as an analyst in the NHS and is currently a Senior Information Analyst at Nottinghamshire Healthcare NHS Foundation Trust, who provide general and mental health services. Her main technical language is SQL but she has been learning R for just over 18 months. She has a degree in Philosophy and curates the Twitter account @AppliedInfoNott.

