

Virtual Conference 2020: Day 1

Monday 9 th November		
Time	Speaker	Topic
08:30	Early Bird Coffee Morning	
09:15	Mohammed A Mohammed , Principal Consultant, Strategy Unit	Conference opening: NHS-R Journey so far and next steps
09:45	Dr Ben Goldacre , Doctor, Best-Selling Author, Academic and Campaigner	OpenSAFELY.org: proving the power of open methods for NHS data analysis in 23 million patients' records
10:25	Adam Steventon , Director of Data Analytics, The Health Foundation	Strengthening data analytics in pursuit of better health care
10:50	Ciara Gribben , Senior Information Analyst, Public Health Scotland	phsmethods: An R package for Public Health Scotland
11:20	John Lodge & Hesham Abdalla , Two NHS colleagues who are co-founders of Hexitime	Introduction to Hexitime
Extended Break		
13:00	John Lodge & Hesham Abdalla , Two NHS colleagues who are co-founders of Hexitime	Hexitime session
14:15	Lightning talks: Session 1	
14:20	Lisa Cummins , Financial Strategy Analyst, Waltham Forest and East London (WEL) CCG	Using Sankey graphs to visualise change in triage and appointment process in primary care following the outbreak of Coronavirus
14:30	Sebastien Peytrignet , Data Analyst, The Health Foundation	monstr: a new package to make ONS tables readable
14:40	Richard Armstrong , Academic Clinical Fellow in Anaesthetics, University Hospitals Bristol NHS Foundation Trust	Meta-analysis in R: using 'meta' to track COVID-19 outcomes
14:50	Jo McSweeney , Analyst, NHSE/I	Using officeR to compile PowerPoints
15:00	Ben Alcock , Data Scientist, NHS Fylde Coast CCGs	Geographical Outbreak Detection of COVID-19
15:10	Adam Brayne , Anaesthesia Core Trainee, Northern Devon Healthcare NHS Trust	Applying web scraping and natural language processing to analyse BMJ Obituaries 1997-2019
15:20	Zoë Turner , Senior Information Analyst, Nottinghamshire Healthcare NHS Foundation Trust	Why do I need to learn R when I can use SQL?

Virtual Conference 2020: Day 2

Tuesday 10 th November		
Time	Speaker	Topic
08:30	Early Bird Coffee Morning	
09:15	NHS-R team	What's on?
09:20	Ellen Coughlan , Programme Manager, The Health Foundation	The Health Foundation: Supporting better analytics
09:50	Andi Orłowski , Director of the Health Economics Unit and Bruno Petrunaro , Health Economics Modeler, Imperial College Health Partners	Causal Inference in Population Health Management
10:30	Bethan Patterson , Advanced Public Health Intelligence Analyst & Rhys Powell , Senior Public Health Intelligence Analyst, Public Health Wales	Rapid development of a multifaceted profile on health and wellbeing to track changes and support planning for recovery from COVID-19 in Wales
10:55	Athanasia Monika Mowinckel , Staff Scientist, Center for Lifespan Changes in Brain and Cognition, University of Oslo	Using ggplot2 polygon and spatial data to plot brain atlases
11:20	Eleanor Barnes , Analyst, NHS Transformation Unit	R Shiny in Transformation
11:45	Hillary Juma , Data Science Community and Engagement Manager, Data Science Campus	Come Together
Extended Break		
14:15	Lightning talks: Session 2	
14:20	Richard Issitt , Postdoctoral Research Fellow, Great Ormond Street Hospital	Using R to understand the Impact of SARS-CoV-2 on Paediatric Patients
14:30	Alan Yeung , Senior Information Analyst, Public Health Scotland	An R Package for Templates in Public Health Scotland
14:40	Edna Mwenda , Information Operations Security and Data Analyst, Salaam Technology	Applied Survival Analysis Using R
14:50	Eugene Hickey , Lecturer in Physics, Technology University, Dublin	The Power of Data Visualisation in R
15:00	Irene Ebyarimpa , Population Health and Financial Strategy Manager, Waltham Forest and East London (WEL) CCGs	Using R Studio in matched cohort analysis for evaluation of personal health budgets
15:10	Martine Wauben , Lead Data Scientist, Department for Health and Social Care	Simply Impactful: a celebration of simple tools and tech to deliver user needs
15:20	Andreas Soteriades , Data Scientist, Nottinghamshire Healthcare NHS Foundation Trust	Building a dashboard from scratch: my own experience with R

Virtual Conference 2020: Day 3

Wednesday 11 th November		
Time	Speaker	Topic
08:30	Early Bird Coffee Morning	
09:15	NHS-R team	What's on?
09:20	Sarah Culkin , Head of Analytics, NHSX	Opening up Analytics
09:50	Chris Mainey , Senior Data Scientist, Healthcare Evaluation Data team at University Hospitals Birmingham NHS Foundation Trust	Building predictive models with HES data using R
10:10	Gianluca Baio , Professor of Statistics and Health Economics, University College London	R you seriously still using Excel? The many advantages of open source decision modelling in efficient programming languages?
10:35	Robert Smith , PhD Student, University of Sheffield	Decision Modelling in R-Shiny
11:00	Lisa Clark , Data Science Team, Virgin Media	For love or money? How to generate high revenue from a team of R developers
11:30	Rebecca Killick , Associate Professor in Statistics, Lancaster University	Navigating open-source software: Ensuring you can rely on what you use
Extended Break		
15:00	Lightning talks: Session 3	
15:05	Josephine Browning , Business Intelligence Manager, NHS Gloucestershire CCG	Automating R markdown with Purrr
15:15	Lydia Briggs , Data Scientist, Great Ormond Street Hospital	A Cohort Comparison Tool for Exploratory Data Analysis
15:25	Dr William A Bryant , Data Scientist, Great Ormond Street Hospital	How to solve surgery waiting times: R, Drake and Operational Analytics for a data-driven future
15:35	Gergely Daroczi , Co-founder of Rx Studio	Integrating R in a Model-Informed Precision Dosing Web Application
15:45	Lee Coulson , Senior Business Analyst, NHS Devon CCG	Hosting R-Shiny Server on Ubuntu Behind NGINX
15:55	John Mackintosh , Business Intelligence Data Analyst, NHS Highland	My data.table hat-trick
16:15	Afternoon with International Colleagues: keynote speaker	
16:15	Alberto Cairo , Journalist, Designer Knight Chair in Visual Journalism at the School of Communication of the University of Miami	The Art of Insight: Making Decisions in Visualization

Virtual Conference 2020: Day 4

Thursday 12 th November		
Time	Speaker	Topic
08:30	Early Bird Coffee Morning	
09:15	NHS-R team	What's on?
09:20	Kate Cheema , Director of Health Intelligence, British Heart Foundation	R in British Heart Foundation
09:40	Sandro Matos , Director of Analytics at Merkle Aquila	Preventing human trafficking through the power of analytics
10:10	Gary Hutson , Head of Advanced Analytics, Arden & Gem Commissioning Support Unit	How computer vision can assist clinicians
10:35	William Hulme , EBM DataLab Nuffield Department of Primary Care Health Sciences, University of Oxford	OpenSAFELY: a walkthrough in R (and a little bit of Python)
11:00	Russell McCreath , Information Analyst, Public Health Scotland	Training pathways: adopting R across the organisation
11:25	Ina Kostakis , Research Fellow, University of Portsmouth	Performance of NEWS/NEWS2 and compliance with vital sign monitoring during the COVID-19 pandemic
11:50	Michael Hurst , Principal Data Scientist, Health Economics & Outcomes Research Ltd	Providing structure in messy healthcare data
Extended Break		
15:45	Afternoon with International Colleagues	
15:50	Tom Mock , Customer Success at Rstudio	Marvelous RMarkdown
16:20	Carson Sievert , Independent Consultant	Styling Shiny & R Markdown with bslib & thematic
16:40	James Blair , Solutions Engineer, Rstudio	APIs in R with Plumber
17:10	Kelly O'Briant , Data Science Product Engineer, Rstudio	Workflows
17:40	Allison Horst , Lecturer at the Bren School of Environmental Science and Management at UC Santa Barbara	Illustrating R: Creative Contributions for R Education and Engagement

Virtual Conference 2020: Day 5

Friday 13 th November		
Time	Speaker	Topic
08:30	Early Bird Coffee Morning	
09:15	NHS-R team	What's on?
09:20	Colin Gillespie , Co-founder of Jumping Rivers, Senior Lecturer at the Newcastle University	R Code Quality: Does it Really Matter?
09:40	Tom Jemmett , Senior Healthcare Analyst, Strategy Unit and Zoë Turner , Senior Information Analyst, Nottinghamshire Healthcare NHS Foundation Trust	Using slack to keep in touch with the NHS-R Community
10:05	Fiona Grimm , Principal Data Analyst, The Health Foundation and Emma Vestesson , Senior Data Analyst, The Health Foundation	R and open analytics in the Health Foundation response to COVID-19
10:30	Richard Wilson , Director, i7 Analytics	Constructing a mortality dashboard
10:55	Jamie-Leigh Chapman , Data Scientist, Wrightington, Wigan and Leigh Teaching Hospitals NHS Foundation Trust	Integrating R and Qlik Sense
11:20	Federica Cocco , Statistical Journalist, and John Burn-Murdoch , Senior Data-Visualisation Journalist, The Financial Times	Communicating statistics in the age of short attention spans
11:45-12:15	Closing Remarks	
16:00-17:00	Social Hour Taking place on Zoom – please use the link sent to you via email	

Virtual Conference 2020: Speaker Biographies

Adam Brayne - Anaesthetic and ICU Doctor, Northern Devon Healthcare NHS Trust

Adam is an anaesthetic and ICU doctor based in North Devon, UK. He has been using R for 7 years since learning to code whilst working on viral genome evolution whilst an undergraduate at Cambridge. His research interests include using web scraping to harness publicly available data and data visualisation. His hobbies include surfing and copying-and-pasting from stackoverflow.



Adam Steventon - Director of Data Analytics, The Health Foundation

Adam Steventon is Director of Data Analytics at the Health Foundation, an independent charity committed to bringing about better health and health care for people in the UK. He is responsible for developing and leading the Foundation's Data Analytics for Better Health strategy, which aims to ensure that everyone in the UK benefits from advances in analytics and data-driven technologies such as artificial intelligence.



At the Health Foundation, which he joined in 2014, Adam leads a team using data to tackle problems affecting people's health. The team produce open-source tools and approaches that can be used by others and champion better analytics throughout the health and social care system. They also design and deliver large-scale initiatives such as the Networked Data Lab and the Improvement Analytics Unit. Their research and analysis inform national policy.

Before joining the Health Foundation, Adam was a senior analyst at the Nuffield Trust, where he led some of the first projects bringing together UK health and social care data. In 2013, he was a Harkness Fellow in Health Care Policy and Practice at Yale University, where he examined the use of technology to improve care for people with heart failure. Economic modelling he produced at the Pensions Policy Institute between 2004 and 2008 informed the development of pensions legislation.

Adam studied mathematics at Cambridge University and the Massachusetts Institute of Technology. He has a PhD in health services research from the London School of Hygiene and Tropical Medicine.

Alan Yeung – Senior Information Analyst, Public Health Scotland

I am an analyst at Public Health Scotland and a research fellow at Glasgow Caledonian University. I mainly work on analysis and research related to blood-borne viruses. I am an advocate for open-source tools and have been promoting the use of R throughout the NHS in Scotland for a number of years.

Alberto Cairo – Journalist, Designer Knight Chair in Visual Journalism at the School of Communication of the University of Miami

Alberto Cairo is a journalist and designer, and the Knight Chair in Visual Journalism at the School of Communication of the University of Miami (UM). He is also the director of the visualization program at UM's Center for Computational Science. He has been head of information graphics at media publications in Spain and Brazil.

The author of several textbooks, Cairo currently consults with companies and institutions like Google and the Congressional Budget Office, and has provided visualization training to the European Union, Eurostat, the Centers for Disease Control and Prevention, the Army National Guard, and many others. He lives in Miami, Florida.



Virtual Conference 2020: Speaker Biographies

Allison Horst - Lecturer at the Bren School of Environmental Science and Management at UC Santa Barbara

Allison is an Assistant Teaching Professor at the Bren School of Environmental Science and Management (University of California, Santa Barbara), where she teaches courses and workshops in environmental data science, math, and statistics. She is also an artist, and through her recent role as RStudio's Artist-in-Residence has been building an open library of illustrations for use in data science and R education. Her academic background is in engineering (BS Chemical Engineering 2005, MS Mechanical Engineering 2007) and environmental science (PhD Environmental Science and Management 2012). She co-founded the Santa Barbara chapter of R-Ladies, and leads the UC Santa Barbara TidyTuesday coding club. Twitter: @allison_horst. GitHub: allisonhorst.



Andi Orlowski - Director of the Health Economics Unit

Andi is a health economist and the Director of the Health Economics Unit, an NHS organization that supports health & care, arm's-length bodies, charities industry & academia, locally, regionally and nationally, providing expertise in economics, population health, analytics & evaluations.

Andi is particularly interested in population health analytics especially how to best address health inequalities and the concept of impactability modelling, finding people most amenable to intervention, and is researching this for his PhD at Imperial College London.

Andi is also a Senior Advisor for NHS England on Population Health Management in the Operations and Information Directorate. Andi works with STPs and ICSs across the country advising and working with them on population health management.



Andreas Soteriades - Data Scientist, Nottinghamshire Healthcare NHS Foundation Trust

I am a mathematician with Data Science experience in both the academic and applied worlds. My experience includes Machine Learning pipelines, interactive dashboards, operational research, automation and plenty of R in fields as diverse as agriculture, inflation, education and health. My current work is an exciting text mining project that will translate insights from patient feedback into a user-friendly interactive interface.

Athanasia Monika Mowinckel- Staff Scientist, Center for Lifespan Changes in Brain and Cognition, University of Oslo

PhD in cognitive neuroscience from the University of Oslo. Current staff scientist at the Center for Lifespan Changes in Brain and Cognition, where we study brain and cognitive change longitudinally in samples covering the entire lifespan. Also managing data-sharing for the ERC consortium Lifebrain, and developing R-packages.



Ben Alcock - Data Scientist, NHS Fylde Coast CCGs

I moved from receiving my PhD in Astrophysics to data science in the Civil Service, where I worked on fraud detection using machine learning. From there I have come into data science within the NHS and have worked on pinpointing areas of need across the Fylde Coast. More recently I have worked with Local Authorities and Blackpool Teaching Hospitals on COVID response planning



Virtual Conference 2020: Speaker Biographies

Dr Ben Goldacre - Doctor, Best-Selling Author, Academic and Campaigner

Ben Goldacre is a doctor, best-selling author, academic and campaigner. His work focuses on uses and misuses of science and statistics by journalists, politicians, drug companies and quacks. His book *Bad Science* reached #1 in the UK non-fiction charts and has sold over half a million copies worldwide. He has published extensively in all major newspapers and various academic journals, and appears regularly on radio and TV from *Newsnight* to *QI*. He has written government papers and reports on evidence based policy, founded a successful global campaign for research transparency, and currently works as an academic in the University of Oxford, where he runs the *EBMdataLab* building live data tools to make science and medicine better, like *OpenPrescribing* and *OpenTrials*. His blog is at www.badscience.net and he is @bengoldacre on twitter.

Bethan Patterson - Advanced Public Health Intelligence Analyst, Public Health Wales

I work for the Public Health Wales Observatory as an Advanced Public Health Intelligence Analyst, based in Carmarthen, South Wales. Our speciality is turning data into public health intelligence and using R is very much helping us do that. I've been pleased to work with the team for 10 years.

Bruno Petrongaro - Health Economics Modeler, Imperial College Health Partners

Globally-educated Bruno is passionate about using economics to make a positive difference to the healthcare system.

Before joining ICHP he was a senior financial strategy analyst for NHS Tower Hamlets Clinical Commissioning Group, where he generated economic analyses, using NHS datasets and qualitative information, to improve cost-effectiveness of the CCG.

He is extremely experienced in managing analytical requests from scoping to delivery. He has extensive experience with collecting, managing and analysing data and is expected to gain his second Masters in 2021 when he is due to graduate from Queen Mary University of London with an MSc in Big Data Science.

Carson Sievert - Independent Consultant

Carson is a software engineer at RStudio working on projects that bridge R with web technologies, such as shiny, plotly, and rmarkdown. Before joining RStudio in late 2018, Carson worked as consultant, delivering analytical and scientific software to organizations such as the Library of Congress, NOAA, Sandia National Labs, and plotly. Carson began consulting part-time during his PhD in statistics at Iowa State, where his work on the R package plotly was recognized by the ASA with the 2017 Chambers Award. His book "Interactive data visualization with R, plotly, and shiny" is now available online and in print at <https://plotly-r.com>.



Chris Mainey - Senior Data Scientist, Healthcare Evaluation Data team at University Hospitals Birmingham NHS Foundation Trust

Chris Mainey is a Senior Data Scientist in health informatics. He is a member of the Healthcare Evaluation Data (HED) team at University Hospitals Birmingham NHS Foundation Trust (UHB), and leads development of data science techniques in informatics at UHB.

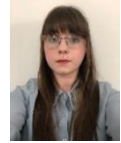
Chris' work focuses on modelling National Health Service (NHS) data. He works primarily in R and SQL Server, and has experience with various statistical modelling and machine learning techniques. He completed his PhD at UCL, on modelling NHS incident reporting data using quantitative methods and text mining.

Chris is an experienced trainer, presenter, and post-grad teacher, keen on communicating health data, statistics and ML techniques to a variety of audiences. He leads a local R usergroup at UHB, is a member of the NHS-R community Technical Advisory Group, and is keen to promote R awareness and adoption in the NHS.

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Ciara Gribben - Senior Information Analyst, Public Health Scotland

I have worked for Public Health Scotland (previously ISD) for four years covering topics such as Secondary Care and Mental Health. I currently work in the Transforming Publishing Programme (TPP) focusing on modernising the way in which PHS produces and presents statistics.



Colin Gillespie - Co-founder of Jumping Rivers, Senior Lecturer at the Newcastle University

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.

Edna Mwenda - Information Operations Security and Data Analyst, Salaam Technology

Edna is an Actuarial Science graduate and a data science enthusiast. She has worked at a National corporation that entailed database management. She loves math, life, dogs, people and a huge Mental Health Awareness Advocate!

Eleanor Barnes - Analyst, NHS Transformation Unit

Eleanor is a data analyst at the NHS Transformation Unit, on a graduate scheme. Eleanor has a background in the biological sciences and computational biology. In her time at the NHS Transformation Unit, Eleanor has been involved in the team's transition to R.

Ellen Coughlan - Programme Manager, The Health Foundation

Ellen Coughlan manages a programme of work at the Health Foundation seeking to advance analytical capability in the health and social care system. This portfolio includes the Advancing Applied Analytics programme that has awarded over £3m to forty healthcare teams across the UK as well as the new Strengthening Social Care Analytics programme that will see innovative projects solve the challenges facing social care analytics in the wake of the pandemic. Ellen's background is in primary care, having led an analytics unit in one of the largest GP federations in the country, and also has experience in mental health service provision and tobacco and alcohol research.

Emma Vestesson, Senior Data Analyst, The Health Foundation

Emma is a senior data analyst at the Health Foundation where she works on quantitative evaluations of healthcare interventions. Prior to joining the Health Foundation, Emma worked as a senior data analyst for the Sentinel Stroke National Audit Programme (SSNAP). Previous to this she worked as an economic researcher consultant for the World Intellectual Property Organization. She is an organiser for R-ladies London. Emma has an undergraduate degree in mathematics and economics from Lund University, Sweden and a Master's degree in specialized economics from Barcelona Graduate school of Economics, Spain. She is currently doing a part-time PhD in health data science at UCL.

Eugene Hickey - Lecturer in Physics, Technology University, Dublin

Eugene Hickey lectures in physics in The Technological University, Dublin. He is involved in a number of projects concerning data analysis. These include an investigation of schizophrenia using gene expression data from the Allen Brain Atlas and data mining of astronomical catalogues to identify optimised fields for differential photometry. He blogs at rpubs.com/eugene100hickey.



Federica Cocco - Statistical Journalist, The Financial Times

Federica Cocco is a statistics journalist at the FT. She previously covered UK politics, policy and statistics for The Times and the Daily Mirror. She also worked as a fact-checker for Full Fact.

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Fiona Grimm - Principal Data Analyst, The Health Foundation and Emma Vestesson, Senior Data Analyst, The Health Foundation

Fiona is a Principal Data Analyst at the Health Foundation where she leads on analyses that use linked patient-level data to build a better understanding of how to improve care for people with complex needs. She also works on projects that aim to demonstrate the value of data and advanced statistical methods to improve operational efficiency, support capacity planning and inform policy. Fiona studied biology at ETH Zurich, where she also gained an MSc in biochemistry and she holds a PhD in biochemistry from University College London.

Gary Hutson - Head of Advanced Analytics, Arden & Gem Commissioning Support Unit

My background is in Advanced Analytics and my passions are Machine, Deep Learning, Computer Vision and general programming concepts. I have been using R for 8 years to provide various solutions to a number of my problems. Career wise - I am the Head of Advanced Analytics at Arden & GEM CSU, prior to that I worked for a leading predictive healthcare analytics company called Draper & Dash, as their Head of Solutions and AI. Prior to that I was in the public sector for NHS and Nottinghamshire Police, in various analytical, managerial and programming roles.



Gergely Daroczi - Co-founder of Rx Studio

Gergely Daroczi is an enthusiast R user and package developer, Ph.D. in Sociology, former assistant professor, currently working in industry with 15 years of experience in data science, engineering, cloud infrastructure, and data operations at SaaS, fintech, and adtech companies, having a strong interest in building a scalable data platforms on the top of R, AWS, and other applications. He maintains a dozen of CRAN packages related to using R in production (automated reports, logging, database connections, API integrations), co-authored a number of journal articles in social and medical sciences, and wrote a book on "Mastering Data Analysis with R".



Gianluca Baio - Professor of Statistics and Health Economics, University College London

Gianluca Baio is Professor of Statistics and Health Economics in the Department of Statistical Science at University College London. He graduated in Statistics and Economics from the University of Florence (Italy). He then completed a PhD programme in Applied Statistics again at the University of Florence, after a period at the Program on the Pharmaceutical Industry at the MIT Sloan School of Management, Cambridge (USA). He then worked as a Research Fellow and then Lecturer in the Department of Statistical Sciences at University College London (UK). His main interests are in Bayesian statistical modelling for cost effectiveness analysis and decision-making problems in the health systems, hierarchical/multilevel models and causal inference using the decision-theoretic approach. He leads the Statistics for Health Economic Evaluation research group within the department of Statistical Science and is involved the development of several R packages specifically devoted to the analysis and post-processing of health economic evaluation models. He collaborates with the UK National Institute for Health and Care Excellence (NICE) as a Scientific Advisor on Health Technology Appraisal projects.

Hesham Abdalla – Consultant Paediatrician and Clinical Lead for Quality Improvement, Walsall Healthcare NHS Trust. Co-founder of Hexitime

Hesham is co-founder of Hexitime. He is a consultant paediatrician and Clinical lead for Quality Improvement in his NHS Trust, Walsall Healthcare. He is also a senior lecturer in Leadership at Keele University and has won national awards in patient-centred care and patient safety.

Twitter @hesham_abdalla



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Hillary Juma - Data Science Community and Engagement Manager, Data Science Campus

Hillary supports the cross-government Data Science community, working with colleagues in the Government Data Science Partnership to coordinate and deliver the community programme. Including hosting the Government Data Science Community of Interests and annual community conference.

Prior to joining the ONS' Data Science Campus, Hillary worked as Parliamentary Assistant and achieved a BA in Politics and International Relations with Quantitative Research. Outside of work, Hillary enjoys creating events and conferences for her local communities and reading books with her book club.

Ina Kostakis - Research Fellow, University of Portsmouth

I'm a Research Fellow with the Centre for Healthcare Modelling and Informatics (CHMI) at the University of Portsmouth. My research uses routinely collected clinical data of both medical and surgical patients to study their risk of outcome or deterioration. Current studies include: outcomes for patients needing major emergency abdominal surgery, optimum frequency of vital sign observations to pick up patient deterioration and the performance of early warning scores in COVID-19 patients.



Irene Ebyarimpa - Population Health and Financial Strategy Manager, Waltham Forest and East London (WEL) CCGs

I am a Population Health and Financial Strategy Manager at WEL CCGs in North East London. I work closely with commissioners, public health, and local authority colleagues in primary care and management of long term conditions. I am passionate about data analysis and visualisation and finding new ways to communicate exciting findings to a wider audience.

James Blair - Solutions Engineer, Rstudio

James is a Solutions Engineer at RStudio, where he focuses on helping RStudio commercial customers successfully manage RStudio products. He is passionate about connecting R to other toolchains through tools like ODBC and APIs. He has a background in statistics and data science and finds any excuse he can to write R code.



Jamie-Leigh Chapman - Data Scientist, Wrightington, Wigan and Leigh Teaching Hospitals NHS Foundation Trust

Dr Jamie-Leigh Chapman is a data scientist at Wrightington, Wigan and Leigh Teaching Hospitals NHS Foundation Trust. Her research interests lie in time series forecasting and changepoint detection. Since completing her PhD at Lancaster University, she has worked in the healthcare industry building statistical models to improve patient care and hospital efficiency.



Jo McSweeney - Analyst, NHSE/I

Jo is an analyst at NHSE/I and joined the NHS in March 2017 after a teaching career. Discovering R during a master's degree, Jo has taken opportunities to use R to automate tasks and link to datasets so the number of spreadsheets can be reduced. Most recent work has been during the planning round and producing PowerPoint slides showing restoration compared to last year for Elective and Outpatient data for multiple organisations and systems.



John Burn-Murdoch - Senior Data-Visualisation Journalist, The Financial Times

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John Lodge - Head of Quality Improvement (London Region), NHS England and NHS Improvement. Co-founder of Hexitime

John is the co-founder of Hexitime.com and the Head of Quality Improvement for London at NHS England. He joined the NHS via the graduate management training scheme after a career in the British Army, and has worked in various improvement roles at provider, regional and national level. He has a keen interest in organisational approaches to improvement, maximising workforce potential to improve services, and healthcare innovation. Twitter @NHS_Man_John



John Mackintosh - Business Intelligence Data Analyst, NHS Highland

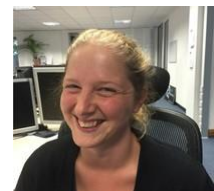
John is a Data Analyst in the NHS Highland Business Intelligence team. He began using R for data visualisation, and loves that it makes working with data easier. He has produced several R packages for use in the NHS/healthcare sector and has an R related blog, which is named after a film he's never seen (HighlandR).

Josephine Browning - Business Intelligence Manager, NHS Gloucestershire CCG

I am a professionally registered analyst with over 10 years experience working for the NHS in both provider and commissioner roles. I am also an NHS-R trainer and provide the one day introduction to R course. I am currently a part time student studying Health Data Science at Swansea University.

Kate Cheema - Director of Health Intelligence, British Heart Foundation

Kate is the current Director of Health Intelligence at the British Heart Foundation and has a background in health analysis in the NHS going back further than she cares to remember. Her focus is on the effective and meaningful use of health and care data to highlight inequalities and opportunities to improve care for millions of people with heart and circulatory disease. Kate is passionate about the benefit high quality analysis can bring to bettering health and care services for all, and believes that investing in the development of health analysts can make that utopia a reality.



Kelly O'Briant - Data Science Product Engineer, Rstudio

Kelly is the product manager for RStudio Connect and has worked at RStudio for the past two years as a Solutions Engineer. Her mission is to build tools that help data scientists communicate their work to collaborators and decision makers.

Lee Coulson - Senior Business Analyst, NHS Devon CCG

I am an ex telecomms engineer who moved into analytics for a local authority in 2006, and have been in the NHS since 2012, standing at the same desk having worked for 3 different organisations! I have been involved in a wide range of analytics / systems development / web development projects and am just about to embark on the Health Data Science MSc at Exeter University.



Lisa Clark - Data Science Team, Virgin Media

Lisa Clark leads the high-performing data science team in Virgin Media, which delivers data science solutions across the whole company, both Consumer and B2B.

Lisa is a strategic data scientist lead, having more than 20 years' experience within private business, public admin and academic settings. She has lead analytical teams for over 15 years. She originally trained as a theoretical physicist, specialising in cosmology, later becoming an expert in energy systems and then econometrics. Her real expertise lies in mathematical and computational analysis of large and complex data sets, but also thrives in the end-to-end flow of data, from collection through manipulation to revenue generation.

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Lisa Cummins - Financial Strategy Analyst, Waltham Forest and East London (WEL) CCG

Lisa Cummins joined the NHS in January 2020 and currently works as a Senior Financial Strategy Analyst in North East London. Her role mainly involves evaluating interventions and providing strategic intelligence to inform health and care planning locally. She is relatively new to R, having only started using it in February 2020.

Lydia Briggs - Data Scientist, Great Ormond Street Hospital

Lydia joined the Data Research Environment (DRE) at GOSH as a Data Scientist following the completion of her Chemistry PhD from the University of Manchester where she specialised in crystallographic refinements of porous materials.

Martine Wauben - Lead Data Scientist

Martine is a Lead Data Scientist at the Department for Health and Social Care. She is a GSS-badged social scientist, who combines an academic background in Psychology and Epidemiology with technical skills acquired through Microsoft training. Previously, she worked at the Ministry of Justice, using supervised learning, unsupervised methods, and text processing to look at administrative datasets on self-harm in custody and fraud. Awarded the Operational Research Society's President's medal for work on prison safety.



Michael Hurst - Principal Data Scientist, Health Economics & Outcomes Research Ltd

Michael has both an upper second-class honors degree in Computer Science and a master's degree in Human Computer Interaction with distinction from Swansea University. In addition, Michael undertook a PhD from Loughborough University researching Affective Computing systems (i.e. systems that possess the ability to empathize with a user), in which extensive work was achieved within the mining and analysis of large-scale healthcare data sets.

Michael is currently employed as a principal data scientist at HEOR, where he is tasked with data mining, developing company wide data science strategy and the design and development of budget impact models and cost-effectiveness models. As well as core Computer Science skills, Michael provides support with a wide range of analysis techniques across an array of platforms and software, including Java, JavaScript, R, Python and VBA. He is also proficient in the tools and techniques of handling big data including the use of SQL and also working with several machine learning techniques, such as neural networks, random forests and support vector machines, to aid in analysis and disease screening projects.

Mohammed A Mohammed – Principal Consultant, Strategy Unit

Professor Mohammed A Mohammed is a principal consultant at the [Strategy Unit](#), an academic (at the University of Bradford) with extensive experience of applied health services research, including quality of care, patient safety and improvement science. Mohammed has 90+ peer reviewed publications, including landmark papers in the Lancet (on understanding variation in healthcare), BMJ (on bias in hospital mortality statistics), evaluation of a care bundle (JAMA Surgery) and a prize-winning study that developed an electronic frailty index for primary care (Age and Ageing). Mohammed leads the NHS-R Community project which aims to promote the use of R in the NHS.

Virtual Conference 2020: Speaker Biographies

Rebecca Killick, Associate Professor in Statistics, Lancaster University

Dr Killick is an active open-source developer and creator of the popular changepoint package on CRAN. Her open-source software is used in companies, governments and NGO's worldwide and has been ported to many other platforms including NAG and Matlab. As an advocate for open-source software, Dr Killick supports initiatives such as Google Summer of Code and RLadies. Passionate about ensuring scientists who develop software receive recognition, Dr Killick became an Associate Editor of the Journal of Statistical Software in 2014 and will become co-editor-in-chief in January 2021. Dr. Killick joined rOpenSci in 2019 as a board member for the flagship statistical software peer-review standards project.

Rhys Powell - Senior Public Health Intelligence Analyst, Public Health Wales

Rhys has been working in public health intelligence for the last 7 years and has been helping develop the R knowledge and capabilities within the Observatory Analytical Team in recent years. Rhys has been part of the COVID-19 recovery profile project team, which is being developed in R, since it started in May and is currently the project lead for it.

Richard Armstrong - Academic Clinical Fellow in Anaesthetics, University Hospitals Bristol NHS Foundation Trust

Richard is an NIHR Academic Clinical Fellow in Anaesthetics in the Severn Deanery and a Research Fellow at the Health Services Research Centre of the Royal College of Anaesthetists. His research interests are in health services research and using routinely collected patient data to drive improvements in care.



Richard Issitt - Postdoctoral Research Fellow, Great Ormond Street Hospital

I am a British Heart Foundation Postdoctoral Research Fellow specialising in incompatible heart transplantation, and a Paediatric Perfusionist at Great Ormond Street Children's Hospital. I have experience using R with Bayesian, general linear post-operative risk models with the Stan modelling language (using Hamiltonian Monte Carlo estimation) and patient level random effects modelling. I am currently designing an R Shiny app to be used in the operating theatre that explores intraoperative Paediatric Cardiac data for postoperative risk stratification.



Richard Wilson - Director, i7 Analytics

Over 25 years of experience in analytics in academia and the highest levels of NHS overseeing the quality of care. Now a consultant supporting the NHS with how to use their data to make more effective decisions. Published on topics ranging from 'sperm to worm' and from 'head to toe', and all aspects of health care.

Robert Smith - PhD Student, University of Sheffield

Robert Smith is a PhD Candidate at the University of Sheffield. His research focuses on the application of health economic decision modelling to public health. More information can be found on his website here: <https://www.darkpeakanalytics.com/>

Russell McCreath - Information Analyst, Public Health Scotland

Russell is an analyst for Public Health Scotland. Since starting as an apprentice, he's used his comprehensive experience to assist in the transforming publishing programme; establishing infrastructure, best practice, and new tools/processes across the organisation. Russell is passionate about good user experience and using new technology to improve outcomes in the quality and efficiency of healthcare.



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Sandro Matos - Director of Analytics at Merkle Aquila

Sandro Matos is a senior Data Scientist at Merkle Aquila with nine years of experience working with a vast range of industries and projects. Sandro specialises in machine learning and has worked with different tools and platforms such as Python, SAS, SQL and R.

He likes to give back to society and is leading a pro-bono initiative at Merkle Aquila with a charity in which a team of analysts and data scientists volunteer their skills to help the organisation with data related tasks.

In his free time, Sandro likes to play video games, send postcards and try new food.

Sarah Culkin - Head of Analytics, NHSX

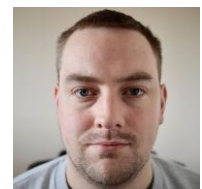
Following a PhD in Chemistry, Sarah joined the Government Operational Research Service (GORS) and held a range of analytical and research positions both at the Department of Health and in the NHS. In 2015 Sarah established and led a Data Science Unit within the Department of Health. Following a stint in Data Policy in NHS England, in summer 2019 Sarah was moved into the newly established NHSX, where she established and now leads the NHSX analytics unit with focus on: Openly publishing results and data, building wider communities of practice, analytics support for NHSX programmes and missions, innovative analytics and data science, developing the analytical profession in health and care.

Sebastien Peytrignet - Data Analyst, The Health Foundation

Sebastien is a Data Analyst at The Health Foundation, where he predominantly works on the data linkage of health datasets as part of the Networked Data Lab. He has a background in medical statistics and economic research.

Tom Jemmett - Senior Healthcare Analyst, Strategy Unit

Tom is a senior analyst at the Strategy Unit with a background in computer science and pure mathematics. He is a member of the British Computer society and Institute of Mathematics and its applications and a champion for the AphA West Midlands branch. Tom is actively involved in the NHSR slack workspace and is passionate about building networks and engaging with as many members of our community as possible.



Tom Mock - Customer Success at Rstudio

Tom holds a PhD in Neurobiology from the UNT Health Science Center and works as a Customer Success Representative. He fell in love with R and data science through his graduate research, using R and RStudio to wrangle, analyze, model, and visualize his data. He is passionate about growing the R community, and founded #TidyTuesday to help newcomers and seasoned vets improve their Tidyverse skills.



Dr William A Bryant - Data Scientist, Great Ormond Street Hospital

I am a clinical data scientist at GOSH with a background in computational biology. I lead a team tackling both clinical and operational challenges in the Trust using programmatic methods. My current tasks include developing a codebase and playbook for data science/engineering consultancy and convincing hospital management of the value of data-driven process development.

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William Hulme - EBM DataLab, Nuffield Department of Primary Care Health Sciences, University of Oxford

Will is a statistician at the University of Oxford's DataLab and has focused on the OpenSAFELY research platform since joining in April 2020. He is interested in improving how routinely-collected health data can be used for prediction and inference, and improving the transparency and reusability of research data and code. He has a BSc in Mathematics and an MSc in Operational Research from the University of Edinburgh and a PhD from the University of Manchester. He has held various research and teaching roles in academia, the NHS, and non-profits. He is a Software Sustainability Institute 2020 Fellow.



Zoë Turner - Senior Information Analyst, Nottinghamshire Healthcare NHS Foundation Trust

Zoë Turner has been an analyst in the public sector for over 10 years using SQL and Excel but since the start of the NHS-R community she has been learning R with its support. She is currently working as an analyst in Nottinghamshire Healthcare NHS Foundation Trust working with mental and general health data along with Public Health data. She particularly is interested in data around equity and spends a lot of time thinking (and talking about) data related to minority groups.

