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Employment History

January 2019 – Present

Associate Professor, University of Oxford, Department of Statistics

July 2016 – Present

Director of Statistical Consultancy Services, University of Oxford, Department of Statistics

September 2015 – July 2016

Post-Doctoral Research Fellow, University of Oxford, Department of Statistics

October 2013 – September 2015

Lecturer, London School of Hygiene and Tropical Medicine (LSHTM), Department of Medical Statistics

May 2011 – October 2013

Research Fellow, LSHTM, Department of Medical Statistics

Higher Education and Professional Qualifications

Ph.D. Statistics: Statistical Models for Censored Point Processes with Cure Fractions, University of Warwick (supervised by Professor Jane Hutton), 2011

M.Sc. Statistics (Distinction), Lancaster University, 2007

B.Sc. (Hons) Mathematics with Statistics (First Class), Lancaster University, 2006

CStat, Chartered Statistician, Royal Statistical Society, 2017

AFHEA, Associate Fellow of the Higher Education Academy, 2016

GradStat, Graduate Statistician, Royal Statistical Society, 2006

Research Funding

MRC Biomedical Catalyst: Developmental Pathway Funding Scheme (DPFS), “Validating the PredicTR treatment response classifier for oropharyngeal cancer (PredicTR 2)”, 1 November 2018 – 2020. Total value of award approximately £800,000

NIHR Post-Doctoral Fellowship, “Analysis of Recurrent Events in Clinical Trials”, 1 September 2013 – 2016. Total value of award approximately £250,000.

EPSRC Doctoral Training Award, 2007 – 2011, covering Ph.D. tuition fees and maintenance. Total value of award approximately £65,000.

EPSRC Studentship, 2006, covering M.Sc. tuition fees and maintenance. Total value of studentship approximately £15,500.

Membership of Societies

Royal Statistical Society

International Biometrics Society

John Snow Society

Consultancy Roles

My current role, Director of Statistical Consultancy Services, involves directing and managing end-to-end provision of the Department's consultancy activities, which includes: liaising with clients to formulate and solve their statistical problems, interpreting and delivering the results of the statistical analysis, as well as developing and delivering appropriate code and software where required. I am required to direct the Department's consultancy services, including managing consultancy contracts in conjunction with Oxford University Innovations. I also provide advice and mentoring to colleagues interested in carrying out consultancy activities, operational management of the consultancy team, as well as contributing to the strategic direction of the services. My consultancy roles to date have been wide reaching, but have predominantly focussed on clinical trial research. I have been involved in the design of a number of clinical trials, advising pharmaceutical companies on the choice of primary endpoint and analysis method. I have also carried out sample size calculations and simulation studies to aid in trial design, as well as economic analyses of trial data to assist in the approval of interventions. Other work that I have carried out includes looking at claimants for a legal case, developing a global predictor for dengue fever, carrying out a financial forecasting analysis and examining the current prevalence and treatment of the disease amyloidosis.

Research

My research is generally focussed on statistical methodology, with applications of statistics to health care. My main area of research to date has been on the development and application of novel statistical methods for the analysis of large-scale clinical trials. My work often requires multi-disciplinary collaboration and I have a number of joint publications. My principal theoretical interests are survival analysis and the analysis of recurrent events with a particular interest in joint modelling strategies that combine the two. I have national and international research networks and have consulted for pharmaceutical companies in the design of a number of major clinical trials. My major medical collaborations have been in cardiovascular disease and in epilepsy.

My Ph.D. thesis focussed on the analysis of epilepsy data that were in the form of a pre-randomisation event count and multiple post-randomisation survival times with cure rates. In studies of epilepsy, information on patients' seizure rates prior to randomisation is often underutilised. I developed methodology that allowed pre-randomisation seizure rates and times to first and second seizure to be jointly modelled with common random effects (frailty). This model assumes that each patient has an underlying constant seizure rate and that post-randomisation seizure rates are modified relative to baseline seizure rates and treatment policy. We extended our methodology further to allow for the inclusion of cure rates. Collaborating with leading neurologists, this work has had substantial impact in the analysis of different seizure types. I also developed the associated software routines in R for the new methodology.

Whilst at the LSHTM, my research focussed on cardiovascular (CV) disease. Composite outcomes are frequently adopted as primary endpoints in clinical trials as they consider fatal and non-fatal consequences of the disease under study and lead to higher event rates. In this setting, analysis of time to first event is suboptimal for a chronic disease such as heart failure (HF), characterised by recurrent hospitalisations, because information on repeats is ignored. Analysing all repeat events within patients more accurately estimates the effect of treatment on the true burden of disease. This is an active and important area of research and in summer 2013 this work led to a successful application for a 3-year NIHR Post-Doctoral Fellowship. Collaborating with leading cardiologists, we have published reanalyses of data from major clinical trials in HF that examine the effect of treatment on recurrent HF hospitalisations. We have also compared existing methods for analysing data on repeat hospitalisations, using data from major trials in heart failure. An increase in HF hospitalisations is associated with a worsening condition and a subsequent elevated risk of CV death. I proposed a simple strategy for incorporating CV death into analyses of recurrent HF hospitalisations by treating the incidence of CV death as an additional event in the recurrent event process and then adopting the usual analysis strategies. This method has been well received and has been adopted as the primary outcome in the PARAGON-HF clinical trial, through my consultancy with Novartis. Methods for analysing recurrent event data in the presence of dependent censoring have also been investigated using joint modelling strategies. Joint frailty models assume that recurrent HF hospitalisations and time to death (or CV death) are conditionally independent given a latent variable and allow distinct treatment effects to be estimated for each of the processes, whilst taking into account the association between the two. Following this work, consultancy with Celladon has resulted in the joint frailty model being the primary analysis in the CUPID Phase 2b clinical trial. Whilst at the LSHTM, I also built ties with the Medical Research Council Clinical Trials Unit, focussing on the suitability of the Cox proportional-hazards model versus models that relax the proportional-hazards assumption.

I joined the University of Oxford in September 2015, where I completed the final year of my Fellowship before taking on the role of Director of Statistical Consultancy Services. Whilst in this role, I have continued to maintain relationships with my cardiovascular collaborators as well as building collaborative links within Oxford. I continue to actively carry out research in the field of recurrent events analysis, but have also carried out analyses for a number of datasets examining primary sclerosing cholangitis. These have been observational studies examining factors which may affect a number of different outcomes in this area.

I am named investigator on a MRC Biomedical Catalyst: Developmental Pathway Funding Scheme examining a biomarker classifier for oropharyngeal cancer (OPC) (throat cancer). Adding surgery may improve outcomes for those patients most at risk of recurrence, but may also result in increased complications and poorer function - including swallowing/eating and speech - as well as increased cost. Currently, there are no markers to guide treatment selection, therefore the decision whether or not to operate is made according to clinician preference and patient choice. The classifier categorises patients into 'low-risk' or 'high-risk' subgroups from the combined analysis of 4 factors. This funding also includes the financing of a post-doctoral post within the Department.

Post-doctoral Supervision

I have a joint post-doctoral supervision with Novo Nordisk focussing on non-environmental modifiers of fatty liver risk. I will be providing supervision for the statistical aspects of this work.

Teaching

Current Teaching commitments

My current teaching responsibilities are that I am the module leader for the course Generalised Linear Models. This course is delivered to both undergraduate and postgraduate students and my responsibilities include the delivery of lectures and problem classes, preparation of problem sheets, setting and marking of the assessed practical assignments (different for the distinct cohorts), and the setting of exam questions (different for distinct cohorts). I am also required to liaise with a group of class tutors, who assist with the delivery of material in the problem classes. This gives me a unique opportunity to work with junior members of staff to develop their own teaching skills, as well as maturing my own.

Since joining the Department of Statistics, University of Oxford, I have regularly supervised final year undergraduate and postgraduate summer projects. This involves setting a suitable project, sourcing the appropriate dataset, and providing supervision for the students. To increase my involvement in the teaching activities within the Department, I have joined the Teaching Committee commencing the academic year 2018/2019. This will allow me to gain further insight into the teaching activities with the Department and allow me to continue to improve my own teaching style.

Past Teaching Commitments

Undergraduate Level:

- Computational Statistics, University of Oxford. Module leader including delivery of lectures, preparation of problem sheets, setting, and marking of the assessed practical assignment and the setting of exam questions.
- Statistical Lifetime Models, University of Oxford. Class tutor for problem classes.
- Probability and Design of Experiments, University of Warwick. I led the tutorial classes and provided teaching support respectively for the problem classes that accompanied the lectures.

Postgraduate Level:

- Computational Statistics, University of Oxford. Module leader including delivery of lectures, preparation of problem sheets, setting and marking of the assessed practical assignment, and the setting of exam questions.
- Probability, LSHTM for the academic years 2013/2014 and 2014/2015. This role involved writing the module notes, lecture preparation and delivery, setting and first marking of the assignment and setting the exam question.
- Probability, Survival Analysis and Advanced Statistical Modelling, LSHTM. I provided teaching support for the problem classes that accompanied the lectures and presented solutions to the questions set.

Personal and Academic Tutoring

I was personal tutor to students enrolled on the M.Sc. Medical Statistics at the LSHTM. This role consisted of giving general guidance relating to academic work, providing pastoral care where necessary, aiding with exam preparation through marking of past papers and the supervision and marking of summer projects.

Short Course Delivery

Clinical Trials Short Course, June 2013, 2014 and 2015, LSHTM: Statistical Issues for Analysis and Reporting.

Introduction to Statistics, January 2019, University of Oxford: Delivery of a weeklong short course to Psychiatry doctoral candidates.

Selected Invited Conferences

Workshop on Statistical Modelling of Multivariate Longitudinal and Survival Data in Medical Research, University of Cape Town 2019

CEN-ISBS Conference 2017

PSI Conference 2016

9th Annual AdvaMed/FDA Medical Device and Diagnostics Statistical Issues 2016

Joint Statistical Meeting 2015

PSI Conference 2014

50th Gregynog Statistical Conference 2014

European Society of Cardiology Congress 2012

FDA/Industry Statistics Conference 2011

Appointments

British Science Association

President of the Mathematical Sciences Section, 2018

Royal Statistical Society

Vice President (External Affairs), 2017 – 2021

Executive Committee, 2017 – 2021

Research Section Council Rep, 2016 – 2017

Royal Statistical Society Council, 2015 – 2021

Honorary Officer for Meetings and Conferences, 2015 – 2017

Guy Lecturer, 2014

President's Nominating Committee, 2013

Committee Member, Young Statistician's Section, 2012 – 2015

Committee Member, West Midlands Section, 2009 – 2011

Sub-Warden, 2009 – 2011, Rootes Residences, University of Warwick

This role required me to participate in the induction of students to residences, promote the development of a hall Committee and participate in regular meetings. I was also responsible for ensuring the provision and delivery of student support and enforcement of the University rules for students resident in the University residences, work within the wider Residential Life team and be responsible for the training and management of a team of Residential Tutors.

Assistant Dean, 2006 – 2007, Furness College, Lancaster University

This role required me to work as part of the College deanery team, maintaining a safe and secure environment for students through the enforcement of the University rules. As an Assistant Dean, I was a member of the College Senior College Room (SCR) and was required to work closely with College Porters, Residences staff, the College Senior Tutor and other SCR and members of the Junior Common Room Executive. I was required to attend College Council meetings and was assigned as a Personal Tutor to 5 students within the College.

Conference Organisation

Royal Statistical Society International Conference 2016, Manchester

Royal Statistical Society International Conference 2015, Exeter

useR!, The R User Conference 2011, University of Warwick

33rd Research Students' Conference in Probability and Statistics 2010, University of Warwick

Professional Development

Taking Stock, University of Oxford, Summer 2018

Springboard, University of Oxford, Spring 2018

Developing Management Skills, University of Oxford, Spring 2018.

Post Graduate Certificate in Learning and Teaching, LSHTM, July 2015

Advanced Stata, University of Bristol, May 2015

MSc Project Supervision, LSHTM, May 2015

Introduction to Stata, University of Bristol, January 2015

Media Training for Experts, Inside Edge Media Training, October 2014

Consultancy Skills, Royal Statistical Society, October 2008, University of Warwick

Academy for Ph.D. Training in Statistics:

- Statistical Computing and Statistical Inference, December 2007, University of Warwick
- Statistical Asymptotics and Statistical Modelling, April 2008, University of Oxford
- Computationally-Intensive Statistical Methods and Stochastic Processes, July 2008, University of Bristol
- Non-parametric Smoothing and Spatial and Longitudinal Data Analysis, September 2008, University of Glasgow.

Prizes and Conference Grants

University of Oxford, MPLS Public Engagement with Research Impact Award, 2018

Best Talk Award, Young Statisticians' Meeting 2012

Young Investigators Grant, Cardiovascular Clinical Trialists Forum, 2011, €1200

Conference Grant, Royal Statistical Society Conference, 2010, £250

Third Best Talk Award, 32nd Research Students' Conference in Probability and Statistics, 2009

Administration

I am highly computer and Internet literate, and adept with programs such as Word and Excel. I am proficient in using mathematically oriented analytical programs such as R and Latex and have experience of STATA and SAS. Whilst at the LSHTM, I was responsible for the organisation of and contributed towards Departmental Research Meetings, which provided an informal environment for members of the department to present work in progress and create a platform for the exchange of ideas. I have also been involved in the organisation of Departmental Retreats. Since joining the Department of Statistics at the University of Oxford, I have involved myself in departmental activities through joining the organisation committee for The Network, volunteering for working groups and taking on the lead in the development of a new departmental website.

Media Interactions

Expert statistician for the Science Media Centre and Sense about Science, 2015-Present.

Regular slots on BBC Radio Berkshire: "What are the chances of that?" on the Andrew Peach show where listeners put their statistical questions to me and I calculate the associated probabilities, and "Newshounds" on the Bill Buckley show, where current news is discussed.

Royal Statistical Society Statistics of the Year: I was interviewed by a number of media outlets including BBC Radio 4 Today Programme and BBC 5 Live to discuss the 2018 Statistics of the Year and the role that statistics plays in everyday life.

Curious Cases of Rutherford and Fry: I appeared on an episode which examined the statistics associated with playing the National Lottery.

BBC Berkshire's Mark my Words: I discuss why the words "Lies, damned lies, and statistics" inspire me to keep on challenging the public perception of statistics and discuss why statistics are so important. Appeared on the Today Programme to celebrate European Statistics Day. This including me setting the puzzle of the day (<http://www.bbc.co.uk/programmes/articles/1Td3nRlcR4jPYvrZrBJRsz/puzzle-for-today?>) and resulted in a follow-up interview later that day on the Channel 5 news.

Expert statistician on BBC Watchdog, investigating the Ryanair seating allocation policy. My analysis resulted in Ryanair admitting that they had been misleading customers in saying that their seating allocation policy was completely random. This story was covered by a number of media outlets including national press. Appeared on BBC World at One, BBC World News and BBC Radio 5 Live to comment on the BBC News article that stated living near a busy road increases your risk of dementia. You can see a clip of me on BBC World at One here: <http://www.bbc.co.uk/news/health-38506735>. January 2017.

Interviewed on BBC Radio Shropshire discussing the role of statistics in everyday life and how statistics can be manipulated in surveys and in the press. August 2016.

BBC £10 note story coverage. I was interviewed by various BBC news outlets, including BBC Radio 4 and BBC Radio 5 Live, about the likelihood of a ten pound note that a man wrote his name on being withdrawn by a colleague ten years later. August 2016

Interviewed by the BBC Mark Forrest show talking about your chances of being struck by lightning. July 2016. The Sun, "Lottery ticket: Winning big is now twice as hard, says professor". February 2016 (Available from: <https://www.thesun.co.uk/archives/news/213094/lottery-tricket-winning-big-is-now-twice-as-hard-says-professor/>)

BBC Newsbeat, "Why you can't always rely on numbers in the news". December 2015 (Available from: <http://www.bbc.co.uk/newsbeat/article/34910257/why-you-cant-always-rely-on-numbers-in-the-news>)

Statistical validation of the analyses carried out for Channel 4 Dispatches: How the Rich get Richer. November 2014.

Expert statistician on Mystery Map, shown on ITV1. November 2013.

Expert statistician for Long Live Britain, shown on BBC1. This project comprised two shows which raised awareness of three of Britain's biggest preventable conditions. As part of the show the UK's largest ever health screening was conducted to investigate risks of heart disease, liver disease and diabetes. My role was to compile the statistical results from the screening questionnaire, present the real time findings on camera and carry out subsequent UK projections. August 2013.

Voice of the Future 2013, hosted by the Select Committee for Science and Technology in the House of Commons. Broadcast by BBC Parliament. March 2013.

Interviewed by BBC Radio Shropshire for their coverage of the Royal Statistical Conference. September 2012.

Public Engagement

Since taking on the role of Royal Statistical Society Guy Lecturer in 2014, I regularly give talks on stage, at maths events and in schools. My presentations focus on statistical significance, uncertainty and chance, communicating risk, and issues surrounding correlation versus causation. I present thought-provoking and stimulating statistical concepts in a captivating, interactive and engaging way that is driven by real-world problems. I am a regular speaker for Maths Inspiration, one of the biggest maths enrichment programmes for teenagers in the UK, and in the past, I have been involved in festivals and conferences with the Further Mathematics Support Programme and Institute of Mathematics and its Applications. Some of my more notable appearances include:

Maths Inspiration, New York, October 2018

Presidential Address, Mathematical Sciences Section, British Science Festival, Hull, September 2018

London Mathematical Society Popular Lectures, July (London) and September (Birmingham) 2018

The Curious Coincidence of the Maths in the Daytime, Maths Inspiration and the Royal National Theatre, Sydney, July 2018

Oxford Maths Festival, Oxford, April 2018

The Curious Coincidence of the Maths in the Daytime, Maths Inspiration and the Royal National Theatre, Melbourne, February 2018

Famelab Oxford Regional Final, 2017, judge

Invited Speaker, Royal Institution Mathematics Celebration Day, July 2016

Invited Speaker, Take Maths Further Conference, Bournemouth, July 2015

Invited Speaker, IMA Festival of Mathematics and its Applications, Newcastle, June 2015

Keynote Speaker, National Cipher Competition, Bletchley Park, March 2015

Science Showoff presenter, January 2015

Career Intentions

It is my intention to establish myself as a biostatistical methodologist of the highest calibre. As public health research becomes increasingly complex, standard statistical methodology fails to be adequate in the analysis of clinical trial data. It is my belief that a successful biostatistician should place themselves at the forefront of new statistical innovations that challenge standard practice where it becomes unsuitable. The constant development of new statistical methodology is essential in ensuring that data collected can be utilised to its fullest so that important and meaningful clinical conclusions can be drawn. I have the skills needed to identify areas in which further development may be necessary, with the mathematical and computational competence required to achieve such developments. I have sound communication skills to ensure successful dissemination of methodology to both statistical and non-statistical audiences, and have the ability to communicate complex novel statistical models to clinical colleagues, something which I feel is crucial for the utilisation of new methods in future clinical trials.

I believe that public engagement is an important facet of my career as a successful biostatistician. I also believe that as an academic, I should be an ambassador for my field and that inspiring engagement with the public is paramount in ensuring the future of our profession. I have invested energy in my development as a public speaker and have successfully made a number of appearances on TV and radio, as well as speaking at many high-profile maths festivals and events. I intend to continue to pursue this aspect of my career and firmly establish myself as a popular public face of statistics.

Publications

Peer Reviewed Articles in Journals

- [1] B.R.H. Sturrock, **J.K. Rogers**, R. Sadler, B. Ferry, C.A. Roberts, R.W. Chapman and K.D. Williamson. Anti-gp210 and anti-sp100 antibody status and ursodeoxycholic acid response in primary biliary cholangitis. *Journal of Gastroenterology and Hepatology Research* 2018; 7(6): 2741-2747. DOI: 10.17554/j.issn.2224-3992.2018.07.797.
- [2] L. Shen, P.S. Jhund, U.M. Mogensen, L. Køber, B. Claggett, **J.K. Rogers** and J.J.V. McMurray. Re-Examination of the BEST Trial Using Composite Outcomes, Including Emergency Department Visits. *JACC: Heart Failure* 2017; 5(8): 591-599. DOI: 10.1016/j.jchf.2017.04.005.
- [3] **J.K. Rogers**, A.Yaroshinsk, S.J. Pocock, D. Stokar and J. Pogoda. Analysis of recurrent events with in the presence of informative censoring: Application of the joint frailty model. *Statistics in Medicine* 2016; 35(13):2195-2205. DOI: 10.1002/sim.6853.
- [4] **J.K. Rogers**, A. Kielhorn, J.S. Borer I. Ford and S.J. Pocock. Effect of ivabradine on numbers needed to treat for the prevention of recurrent hospitalizations in heart failure patients. *Current Medical Research & Opinion* 2015; 31(10):1903-1909. DOI: 10.1185/03007995.2015.1080155.
- [5] **J.K. Rogers**, P.S. Jhund, A.C. Perez M. Böhm, J.G. Cleland, L. Gullestad, J. Kjekshus, D.J. Veldhuisen, J. Wikstrand, H. Wedel, J.J.V. McMurray and S.J. Pocock. Effect of Rosuvastatin on Repeat Heart Failure Hospitalizations: The CORONA Trial (Controlled Rosuvastatin Multinational Trial in Heart Failure). *Journal of the American College of Cardiology: Heart Failure* 2014; 2(3):289-297. DOI: 10.1016/j.jchf.2013.12.007.
- [6] **J.K. Rogers**, S.J. Pocock, J.J.V. McMurray, C.B. Granger, E.L. Michelson, J. Östergren, M.A. Pfeffer, S.D. Solomon, K. Swedberg and S. Yusuf. Analysing recurrent hospitalisations in heart failure: a review of statistical methodology, with application to CHARM-Preserved. *European Journal of Heart Failure* 2014; 16:33-40. DOI: 10.1002/ejhf.29.
- [7] **J.K. Rogers** and J.L. Hutton. Comparing treatment policies in early epilepsy through the joint modelling of pre-randomisation event rates and multiple post-randomisation survival times. *Journal of Applied Statistics* 2013; 40(3):546-562. DOI: 10.1080/02664763.2012.748720.
- [8] **J.K. Rogers**, J.J.V. McMurray, S.J. Pocock F. Zannad, H. Krum, D.J. Veldhuisen, K. Swedberg, H. Shi, J. Vincent and B. Pitt. Eplerenone in Patients with Systolic Heart Failure and Mild Symptoms: Analysis of the Repeat Hospitalizations. *Circulation* 2012; 126(19):2317-2323. DOI: 10.1161/CIRCULATIONAHA.112.110536.
- [9] **J.K. Rogers**, J.L. Hutton, A.G. Marson, and D.W. Chadwick. Assessing the risk of subsequent tonic-clonic seizures in patients with a history of minor seizures. *Journal of Neurology Neurosurgery and Psychiatry* 2012; 83:803-809. DOI: 10.1136/jnnp-2011-300917.

Working Papers; Under Review

- [10] P. Royston, B Choodari-Oskooei, M.K.B. Parmar and **J.K. Rogers**. Combined test versus logrank/Cox test in 50 randomised trials. *Submitted to Trials*.
- [11] K.V. Bunting, R.P. Steeds, L.T. Slater, **J.K. Rogers**, G.V. Gkoutos and D. Kotecha. Assessing and improving the reproducibility of echocardiography: a practical guide. *In preparation*.
- [12] K.D. Williamson, F. Saffioti, **J.K. Rogers**, D. Thorburn and R. Chapman. Colectomy is associated with the development of hepatobiliary malignancy but not cholangiocarcinoma in patients with primary sclerosing cholangitis. *In preparation*.

Other Published Output

- J.K. Rogers**. Just what is out problem with numbers? Oxford Science Blog. (Available from: <http://www.ox.ac.uk/news/science-blog/just-what-our-problem-numbers>).
- J.K. Rogers**. How "random" is Ryanair's seating allocation? Significance. (Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1740-9713.2017.01069.x/full>).
- J.K. Rogers**. Luck of the withdrawal. Significance. (Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1740-9713.2016.00957.x/pdf>).
- J.K. Rogers**. Is my bacon sandwich going to give me cancer? Statistics Views (Available from: <http://www.statisticsviews.com/details/feature/8704781/Is-my-bacon-sandwich-going-to-give-me-cancer.html>).
- J.K. Rogers**. Statistics and Biology - a match made in heaven? Royal Society of Biology Blog (Available from: <http://blog.rsb.org.uk/statistics-and-biology/>).
- J.K. Rogers**. How can we remedy the gender imbalance in maths and stats? StatsLife (Available from: <http://www.statslife.org.uk/opinion/2389-how-can-we-remedy-the-gender-imbalance-in-maths-and-stats>).
- J.K. Rogers**. Number Needed to Treat for Recurrent Events – Event- or Patient-Based? Statistics Views, Wiley (Available from: <http://www.statisticsviews.com/details/feature/8092601/Number-Needed-to-Treat-for-Recurrent-Events--Event--or-Patient-Based.html>).

- J.K. Rogers.** Speed cameras, causality and chance. Statistics Views, Wiley (Available from: <http://www.statisticsviews.com/details/feature/7497691/Speed-Cameras-Causality-and-Chance.html>) **J.K. Rogers.** Will Ebola change the future of clinical trials? Statistics Views (Available from: <http://www.statisticsviews.com/details/feature/7089401/Will-Ebola-change-the-future-of-clinical-trials.html>). **J.K. Rogers.** Does evidence matter? Statistics Views, Wiley (Available from: <http://www.statisticsviews.com/details/feature/6236051/Does-evidence-matter.html>) **J.K. Rogers.** Open data should also be about cutting red tape for research. StatsLife (Available from: <http://www.statslife.org.uk/opinion/1255-open-data-should-also-be-about-cutting-red-tape-research>). **J.K. Rogers.** Recurrent events analysis, not so straightforward! Statistics Views, Wiley (Available from: <http://www.statisticsviews.com/details/feature/5786631/Recurrent-events-analysis-not-so-straightforward.html>). **J.K. Rogers.** Statisticians Essential to Success of Clinical Trials. International Year of Statistics (Available from: www.statistics2013.org/2013/05/27/statisticians-essential-to-success-of-clinical-trials/). **J.K. Rogers, J.L. Hutton and K. Hemming.** Joint modelling of event counts and survival times. Centre for Research in Statistical Methodology, University of Warwick (Available from: <http://www2.warwick.ac.uk/fac/sci/statistics/crism/research/paper09-44>).

References

Available on request.