

CURRICULUM VITAE

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PERSONAL PROFILE

I am an applied statistician and statistical programmer, with a wide range of research experience. This has been mainly medical, which is unsurprising, as I came to statistics from a genetics background. I work extensively on the analysis, management and validation of data. My analyses use a very broad range of methods, standard and non-standard, developing new methods when appropriate. As I have a broad, in-depth understanding of how statistical methods work (or otherwise), I find it easy to learn or develop new methods, and to gain a feel for their advantages and limitations. Although my skills are more technical than managerial, one of my strong points is communicating statistics to non-statistical people. I contribute to the writing of scientific reports and papers, sometimes as the corresponding author of a multi-authored multi-centre publication. I am also involved in teaching statistics to medical students, and refereeing for medical and statistical periodicals.

SKILLS

Statistical methods: Although not a career methodologist, I have published on (and use routinely in my day-to-day work) confidence-interval methods for rank and spline parameters that can be understood by non-statisticians, and which are not really “non-parametric”. I am also expert in using (and developing when necessary) scenario-comparison methods, propensity-score methods, and implementations of multiple-test procedures.

Statistical/numerical software: I have written and distributed over 120 Stata packages, mostly on the Statistical Software Components (SSC) website. I am also an experienced SAS programmer, have been a Genstat programmer, and have some experience of R, including integrating R with Stata.

Programming languages: Mata, C, SQL. Some knowledge of C++. Have previously been a FORTRAN programmer and a Pascal programmer.

Operating environments (last 10 years): Windows, Linux.

Other software: Plain TeX and LaTeX (using the MiKTeX package). I have also used symbol-

manipulation software for algebraic solution of quartic equations.

Other training: Completed a course in Good Clinical Practice (GCP) at the King's College London Clinical Trials Unit in 2023.

CAREER

September 2021-Present: Research Fellow in the Centre for Cancer Screening, Prevention and Early Diagnosis, Wolfson Institute of Preventive Medicine, Queen Mary University of London.

April 2021-August 2023: Statistician in the Cancer Prevention Group, School of Cancer & Pharmaceutical Sciences, King's College London.

October 2018-March 2021: Research Associate in the Department of Primary Care and Public Health, School of Public Health, Imperial College London. Providing the computational and statistical input for a project in the Doctor Foster Unit funded by the British Heart Foundation (BHF) on describing and modelling the treatment and survival prospects for patients diagnosed with heart failure in 2001-2002 and in 2011-2012.

July 2014-September 2018: Research Associate in the Department of Primary Care and Public Health, School of Public Health, Imperial College London. Involved principally in research projects on adverse drug reactions (ADRs). I also liaised with researchers as a member of the Research Development Service (RDS) team, advising them regarding their grant applications for trials and other studies, especially regarding power calculations. In this position, I became familiar with analysing data from NHS databases, such as the Hospital Episode System (HES) and the Clinical Practice Research Datalink (CPRD).

January 2006-June 2014: Lecturer in Medical Statistics in the Respiratory Epidemiology, Occupational Medicine and Public Health Group, National Heart and Lung Institute, Imperial College London. Involved mainly in research projects on the epidemiology of asthma and allergic disease. Included in the College's REF submission for 2014.

September 1999-December 2005: Lecturer in Medical Statistics at the Department of Public Health Sciences, King's College London (from which my group moved to Imperial College as a group in January 2006).

October 1996-August 1999: Lecturer in Medical Statistics at the Department of Epidemiology and Public Health, Imperial College School of Medicine, London.

September 1995-September 1996: Statistician at the Department of Public Health Sciences, St George's Hospital Medical School, London.

August 1994-August 1995: Between jobs, I updated my skills and did some consultancy work at the Organisation of Population Censuses and Surveys (OPCS).

August 1991-August 1994: Statistician and Modeller in the Department of Statistics, Rothamsted Experimental Station. (Status: SSO.)

July 1986-July 1991: Computer Programmer and Statistician in the Department of Environmental and Preventive Medicine, Medical College of St. Bartholomew's Hospital.

March 1982-May 1986: Computational and Statistical Assistant in the Department of Epidemiology, London School of Hygiene and Tropical Medicine.

January 1980-December 1981: Computer programmer in the Department of Bacteriology, St Mary's Hospital Medical School, University of London.

OTHER FUNCTIONS HELD

Since 2009: Scientific co-organiser of the United Kingdom Stata User Meeting (with Professor Stephen Jenkins and more recently with Michael Crowther) in 2009, 2011, 2013, 2015, 2017, 2019, and 2021.

Since May 2003: Associate Editor of *The Stata Journal*.

July 2007 to September 2009: Regular statistical referee for *Thorax*.

May 1997 to February 2003: Regular statistical referee for *Journal of Bone and Joint Surgery*.

PRIZES, AWARDS AND OTHER ACADEMIC DISTINCTIONS

December 2014. The *Stata Journal* Editors' Prize, 2014. Presented principally for the article: Newson RB. Attributable and unattributable risks and fractions and other scenario comparisons. *The Stata Journal* 2013; **13**: 672-698.

EDUCATION

October 1980-July 1988 (concurrently with full-time employment): Part-time studies, leading to the award (in 1988) of the degree of DPhil at the University of Sussex, based in the Schools of Mathematics and Biology.

October 1978-August 1979: MSc, Biometry, Department of Applied Statistics, University of Reading. Graduated 1979.

October 1977-July 1978: Preliminary year in the Department of Mathematics, Nottingham University, qualifying me for entry to the MSc course in Biometry at Reading University.

October 1974-July 1977: BSc, Botany/Zoology (Joint Honours), University of Nottingham. Graduated 1977, Class 2(ii).

REFEREES

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ARTICLES IN REFEREED JOURNALS (PUBLISHED)

Pitts Crick R, Vogel R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. Visual field loss in glaucoma: preliminary data on a 12-year follow up. *Research and Clinical Forums* 1985; **7**(1): 51-62.

Vogel R, Pitts Crick R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. The association between intra-ocular pressure and loss of visual field in chronic simple glaucoma: a preliminary report from the analysis of the King's College Hospital Glaucoma Project. *Research and Clinical Forums* 1985; **7**(1): 63-69.

Crick RP, Vogel R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. Relationship between Intraocular Pressure and Visual Field Progress in Chronic Simple Glaucoma and Ocular Hypertension. *Glaucoma* 1985; **7**: 208-219.

Bulpitt CJ, Beevers G, Butler A, Coles E, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance P, Twallin G, Webster J, Dollery CT. The survival of treated hypertensives and their causes of death: A Report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Hypertension* 1986; **4**: 93-99.

Crick R, Vogel R, Newson R, Shipley M, Blackmore H, Bulpitt C. The nature of visual field impairment in chronic simple glaucoma and ocular hypertension. *New Trends in Ophthalmology* 1986; **1**: 229-234.

Bulpitt CJ, Beevers DG, Butler A, Coles E, Fletcher AE, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery CT. Treated blood pressure, rather than pretreatment, predicts survival in hypertensive patients. A report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Hypertension* 1988; **6**: 627-632.

Fletcher AE, Beevers DG, Bulpitt CJ, Butler A, Coles EC, Hunt D, Munro-Faure AD, Newson R, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. The relationship between a low treated blood pressure and IHD mortality: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1988; **2**: 11-15.

Fletcher A, Beevers DG, Bulpitt C, Butler A, Coles EC, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. Beta-adrenoceptor blockade is associated with increased survival in male but not in female patients: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1988; **2**: 219-227.

Bulpitt CJ, Beevers DG, Butler A, Coles E, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. The effects of anti-hypertensive drugs on sexual function in men and women: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1989; **3**: 53-56.

Crick RP, Vogel R, Newson RB, Shipley MJ, Blackmore H, Palmer A, Bulpitt CJ. The Visual Field in Chronic Simple Glaucoma and Ocular Hypertension; Its Character, Progress, Relationship to the Level of Intraocular Pressure and Response to Treatment. *Eye* 1989; **3**: 536-546.

Crick RP, Newson RB, Shipley MJ, Blackmore H, Bulpitt CJ. The Progress of the Visual Field in Chronic Simple Glaucoma and Ocular Hypertension Treated Topically with Pilocarpine or with Timolol. *Eye* 1990; **4**: 563-571.

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Gibbs RGJ, Todd JC, Irvine C, Lawrenson R, Newson R, Greenhalgh RM, Davies AH. Relationship between the regional and national incidence of transient ischaemic attack and stroke and performance of carotid endarterectomy. *European Journal of Endovascular Surgery* 1998; **16**: 47-52.

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deceased patients? A survey of public opinion. *Journal of the Royal Society of Medicine* 1998; **91**: 576-78.

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Newson R Confidence intervals and *p*-values for delivery to the end user. *The Stata Journal* 2003; **3(3)**: 245-269.

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Shaheen SO, Newson RB, Henderson AJ, Headley JE, Stratton FD, Jones RW, Strachan DP, the ALSPAC Study Team. Prenatal paracetamol exposure and risk of asthma and elevated IgE in childhood. *Clinical and Experimental Allergy* 2005; **35(1)**: 18-25.

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Shaheen SO, Hines M, Newson RB, Wheeler M, Herrick DRM, Strachan DP, Jones RW, Burney PGJ, Henderson AJ. Maternal testosterone in pregnancy and atopic outcomes in childhood. *Allergy* 2006; **62(1)**: 25-32.

Hutchinson M, Gurney S, Newson R. GDNF in Parkinson disease: An object lesson in the tyranny of type II. *J Neurosci Methods* 2007; **163**:190-192.

Shaheen SO, Newson RB, Rayman MP, Wong AP-L, Tumilty MK, Phillips JM, Potts JF, Kelly FJ, White PT, Burney PGJ. Randomised, double-blind, placebo-controlled trial of selenium supplementation in adult asthma. *Thorax* 2007; **62**: 483-490.

Okoko BJ, Burney PG, Newson R, Potts J, Shaheen SO. Childhood asthma and fruit consumption in South London. *Eur Respir J* 2007; **29**: 1161-1168.

Papageorgiou I, Yin Z, Ladon D, Baird D, Lewis AC, Sood A, Newson R, Learmonth ID, Case CP. Genotoxic effects of particles of surgical cobalt chrome alloy on human cells of different age *in vitro*. *Mutat Res* 2007; **619**: 45-58.

Papageorgiou I, Brown C, Schins R, Singh S, Newson R, Davis S, Fisher J, Ingham E, Case CP. The effect of nano- and micron-sized particles of cobalt-chromium alloy on human fibroblasts *in vitro*. *Biomaterials* 2007; **28**:2946-2958.

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Bernardini S, Doherty A, Newson R, Turner J, Fairman B, Bhamra M, Thomas T, Case CP. Increased metal levels and chromosomal aberrations in patients with metal on metal total hip replacement. *Drug Metab Rev* 2007; **35**:97-97.

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Shaheen SO, Northstone K, Newson RB, Emmett P, Sherriff A, Henderson J. Dietary patterns in pregnancy and respiratory and atopic outcomes in childhood. *Thorax* 2009; **64**: 411-417.

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