

CURRICULUM VITAE (short format)

Jon Driver, MA DPhil FMedSci FBA

Professor of Cognitive Neuroscience

Scientific publication summary:

215 peer-review journal papers, plus 31 refereed review articles, 34 chapters in edited volumes, 7 commentaries, editor of 4 books.

Total ISI citations (April 2010) of 13849; h index of 64.

Posts held:

Royal Society Anniversary Research Professor at UCL, 2009 onwards

Co-chair (with Prof Michael Hausser) of UCL Neuroscience, 2008 onwards

Director, UCL Institute of Cognitive Neuroscience, 2004-2009

Principal researcher, Wellcome Centre for Neuroimaging, Institute of Neurology, London, 2002 onwards

Professor, UCL Institute of Cognitive Neuroscience, and Department of Psychology, 1998 onwards

Professor, Birkbeck College, University of London, 1996-1997

University Lecturer, Department of Experimental Psychology, University of Cambridge, 1991-1996. Fellow of Gonville and Caius College, Cambridge

Visiting Assistant Professor at the University of Oregon, USA (working with Prof Michael Posner, member of National Academy of Sciences and winner of National Medal of Science), 1990-1991

Research Fellow at Christ Church, & College Lecturer in Psychology at Trinity College, University of Oxford, 1988-1990

Honours for Research :

Royal Society Anniversary Research Professorship, 2009

Presidents Award from the British Psychology Society, 2009

Fellow of the British Academy (FBA), elected 2008

Listed on ISIhighlycited.com since 2007

Member of Academia Europaea, elected 2006

Fellow of the Academy of Medical Sciences (FMedSci), elected 2005

Experimental Psychology Society Mid-Career Award, 2005

Royal Society – Leverhulme Trust Senior Research Fellowship, 2007-2008

Royal Society Wolfson Research Merit Award, 2001-2006

International keynote addresses include: Human Brain Mapping; Cognitive Neuroscience Society; Association for Scientific Study of Consciousness; International Multisensory Research Forum; Attention & Performance; Endo-Psycho-Neuro Meeting; Federation of the European Societies for Neuropsychology; Forum of European Neuroscience.

Broadbent Lecture, British Psychological Society, 1998

Donders Lecture, Max Planck Institute, Nijmegen, Holland, 1998

UK-sponsored Psychologist for XXVI International Congress of Psychology, Montreal, 1996

Experimental Psychology Society Prize and Lecture, 1995

Spearman Medal, British Psychological Society, 1994

University education:

First class BA/MA in Experimental Psychology, 1984, University of Oxford

D Phil in Experimental Psychology, 1988, Oxford

Research grants awarded:

Please note that in addition to the personal grants listed below, the numerous postdoctoral fellows applying to work with me have raised in excess of £2.6M via their fellowships (for which I co-authored the applications). Furthermore, over £48M in research funds were raised at the UCL Institute of Cognitive Neuroscience when I was its Director from 2004-2009. Moreover in 2008 I was co-author (with Prof Michael Hausser) of UCL's successful bid, in competition with Cambridge and Oxford, for the major new Sainsbury-Wellcome Centre for Neural Circuits and Behaviour. The value of that competition was on the order of ~£140M, so our bid was correspondingly substantial, comprising not just a five-page executive summary, but also 95 pages of supporting text, and 1000 pages on a DVD describing the future of studies on neuroscience and behaviour, plus the strategic opportunities for this field at UCL and in the UK more generally.

Personal grants:

Wellcome Trust Programme grant, “Attention, neglect and related modulations of sensory processing”, 2010-2015 (£1060K), as sole PI

FP7 European network, ‘BrainSync’, in partnership with Corbetta, Deco, Engel, Fries, Lachaux, Palus, Vanduffel (2,978,242 Euros)

Medical Research Council (UK) research grant, “Crossmodal interactions in the normal and disrupted human brain”, 2006-2010 (£790K), as PI

Wellcome Trust Programme grant, “Cognitive neuroscience of visual neglect and extinction”, 2003-2008 (£710K), as sole PI

Biotechnology and Biological Sciences project grant, “Multisensory dynamic of selective attention in the human brain”, 2007-2010 (£403K), co-applicant with Dr Chris Chambers

Biotechnology and Biological Sciences Research Council project grant, “Attentional modulation of contextual integration in human vision”, 2004-2007 (£190K), as sole PI

Royal Society Wolfson Research Merit Award, 2001-2006 (£150K)

Medical Research Council (UK) Programme grant. “Crossmodal links in spatial attention”, 1999-2004 (£980K), as sole PI

Biotechnology and Biological Sciences Research Council project grant, “Attentional modulation of lateral interactions in early human vision”, 2000-2003 (£160K), as sole PI

McDonnell-Pew project grant, “Multisensory neglect in perception and spatial working memory”, 1999-2003 (\$150K), as sole PI

Wellcome Trust project grant, "Psycho-anatomical studies of visual extinction", 1996-1999 (£150K), as sole PI

Wellcome Trust project grant, “Interocular interactions at the blindspot and other scotomas”, 1996-1997 (£95K). Held with Horace Barlow as PI, at Cambridge

Human Frontier Science Program, “Attention and the processing of biologically significant stimuli”, 1997- 2000 (\$800K). Held jointly with groups at MIT, Cambridge UK, St Andrews, and Texas.

Biotechnology and Biological Sciences Research Council (UK) project grant, “Visual attention and modal- versus amodal-completion processes”, 1997-1999 (£143K), as sole PI

Economic and Social Research Council (UK) project grant, “Implicit versus explicit measures of visual processing under inattention”, 1997-1999 (£139K), as sole PI

Stroke Association project grant, “Separating sensory and motor components of unilateral neglect”, Jan 1998-Dec1999 (£65K), as sole PI

Science and Engineering Research Council (UK) project grant, "Beyond edges in

vision: Chronometric studies of figure-ground segmentation and shape perception", 1993-1996, (£120K), as sole PI

Medical Research Council (UK) project grant, "Crossmodal synergies in human attention", 1992-1996 (£100K), as sole PI

NATO Collaborative Research grant, "Normal and pathological mechanisms of attention", 1992-1994, held with Rafal, University of California, Davis, (£10K)

Royal Society grant, "Crossmodal links in attention", 1991-1992 (£9K)

McDonnell-Pew Research Fellowship, 1990-1991 (\$30K), ad hominem

European Science Foundation twinning grant, "Attention and motor control in selective reaching", 1989-1991, held with Rizzolatti at Parma, Italy, and Allport, Oxford (£10K)

Medical Research Council (UK) grant, "Movement and visual search", 1989-1990, held with McLeod, Oxford (£20K)

Teaching experience:

University College London, 1998 onwards. Lectures to physiology and medical undergraduates on *Structure and Function of the Nervous System*; to psychology undergraduates on *Perception and Attention*; and to Master's students on *Cognitive Neuropsychology* and *Cognitive Neuroscience*.

Birkbeck College, University of London, 1996-1997. Lecture courses on *Cognitive Neuroscience*; on *Visual Cognition*; and on *Neuropsychology*. Graduate Tutor.

University of Cambridge, 1991-1996. Lectures to Medical and Veterinary undergraduates on *neuropsychology, perception, memory and neuropsychology*; to Natural Science undergraduates on *selective attention, vision, motor control, and neuropsychology*. Laboratory classes including drug studies, human memory, motor control, mental imagery, selective attention, single-case methodology in neuropsychology, and lesion reconstruction.

University of Oxford, 1984-1990. Supervised *Neuropsychology, Introductory Psychology, Human Information Processing*.

Supervision of undergraduate, MSc and PhD research in Cambridge and London, dates above. Leader of tutorials and seminars, examination of undergraduate and postgraduate degrees, at all above institutions. Creation of joint UCL-Birkbeck MSc in Neuropsychology and subsequently an MSc in Cognitive Neuroscience that is coordinated between these two universities.

Academic supervision:

All of my PhD students have finished within 4 years, and the vast majority within 3 years. All have published peer-review papers on their PhD work with me, and all have gone onto academic careers. Examples of those for whom I was primary supervisor include:

Charles Spence, subsequently a Professor at Oxford and an EPS-Prize winner.

Greg Davis, subsequently a Royal Society Research Fellow at Birkbeck, now a Lecturer at Cambridge.

Chris Rorden, subsequently a Lecturer at Nottingham and a BNS-Prize winner. Now a faculty member at University of South Carolina, US.

Robyn Sorensen, subsequently a dyslexia researcher at Cambridge.

Steffan Kennett, subsequently a Wellcome Research Fellow at UCL, now a Lecturer at University of Essex.

Paola Ricciardelli, subsequently a Faculty Member in Milan, Italy.

Rob Jenkins, subsequently a British Academy Research Fellow and now a Lecturer at Glasgow.

Charlotte Russell, subsequently an MRC Research Fellow at University of London, and now a Lecturer at Brunel.

Margarita Sarri, subsequently a Wellcome Research Fellow at UCL, now about to start an MRC/ESRC fellowship in Cambridge.

Christian Ruff, subsequently an MRC Senior Research Fellow at UCL and now a Professor in Zurich.

Examples of PhD students for whom I was second supervisor at UCL include:

Pia Rotschtein, now a BBSRC Fellow at Birmingham.

Gaia Scerif, now a lecturer at Oxford.

Paul Bentley, now a clinical-academic fellow at Imperial College.

In my time at UCL, I have also been supervisor and mentor to over 40 postdocs, all of whom have published peer-review journal papers during their time at UCL with me, and all of whom have gone onto academic posts in research-led universities.

In addition, I have been academic supervisor to over 20 research visitors, who again all published peer-review journal papers based on their time with me at UCL.

Former and Current Postdocs include:

Markus Bauer, Sven Bestmann, Felix Blankenburg, Otto Bjoertomt, Chris Chambers, Greg Davis, Zoltan Dienes, Evelyn Eger, Eva Feredoes, Elliot Freeman, Joy Geng, Nathalie George, Klaarte Heinen, Steffan Kennett, Arni Kristjansson, Emiliano Macaluso, Angelo Maravita, Jason Mattingley, Fiona McNab, Toemme Noesselt, Francesco Pavani, Tony Ro, Vincenzo Romei, Pia Rotshstein, Chris Rorden, Christian Ruff, Ayse Pinar Saygin, Sophie Schwartz, Charles Spence, Massimo Turatto, Jose Van Velzen, Patrik Vuilleumier, Eva Wojciulik

Research Assessment Exercise: Co-author of RAE submission for UCL Psychology Department, 2001. Highest possible grade obtained (5*). Contributed to UoA9 and UoA44 submissions for 2008 at UCL.

Conference organiser: Royal Society Discussion meeting on “*Mental Processes in the Human Brain*”, October 2006 (the best attended discussion meeting in the Royal Society’s long history to date). Also organizer of *Attention and Performance, XVIII*, at Windsor Great Park 1998, on

‘Control of Cognitive Processes’; and of inaugural meeting of *International Multisensory Research Forum* at Oxford, 1999, since held annually. More recently (April 2010) I co-organised the inaugural UCL Neuroscience symposium which attracted over 500 delegates.

Government: Co-author of report on ‘Advanced neuroscience technologies’ for Foresight (DTI) cognitive-systems program (2003); discussant on language section also.

Research interests: Cognitive neuroscience, neuropsychology. Human selective attention in vision, hearing and touch, plus multisensory integration. Neurological deficits in all these processes, their relation to normal function, and their rehabilitation, especially for deficits in attention, perception and multisensory integration after stroke. Functional neuroimaging, ERP, MEG and TMS methods, in addition to psychophysics. Lesion reconstruction from structural images. Concurrent TMS and fMRI. Figure-ground segmentation. Movement perception. Modal and amodal completion. Visual shape perception and object recognition. Neural representation of space in relation to perception and action. Eye-movements. Social attention. Interactions between attention and emotion.

Public Engagement:

As a speaker: British Association for the Advancement of Science; Royal Society; public prize-lectures (BPS Presidents Award, EPS Mid-Career Award, Spearman Medal, Broadbent Lecture); many talks to neurological patients and their carers at local Stroke Association clubs; and to occupational therapists and nurses.

Print media: Articles on my research have appeared in the *Financial Times*, *Guardian*, *Independent*, *Observer*, *Daily Mail*, *Daily Mirror*, *New Scientist*, *Science et Vie*, *Sunday Times*, *Telegraph*, *Times*, plus national papers in Australia, Canada, France, Holland, and the USA.

Radio: Interviewed on *Radio 4* (e.g. Science Today), the *World Service*, US and Australian national radio, plus many local stations.

Television: Interviewed about research on national news programmes (BBC1, ITV, Channel 4) and on national ‘breakfast’ television.

As an author: Published several scientific articles in high-impact journals that have a general readership (e.g. over 20 papers in *Nature*, *Science* and *Nature Neuroscience*), in addition to a large number of publications in specialist journals; see list.

General media: I am a main point of contact for the British Psychological Society’s and Experimental Psychology Society’s media lists, so am contacted regularly by journalists about breaking stories in cognitive neuroscience. During my time as Director of the UCL Institute of Cognitive Neuroscience (2004-2009) I instigated a Public Activities committee, greatly expanding public engagement activities in cognitive neuroscience that continue to this day (see www.icn.ucl.ac.uk/media/pest_main.php). More recently as co-chair (with Prof Michael Hausser) of UCL Neuroscience I oversee and encourage public-engagement activities across the 450 neuroscience PIs at UCL, as summarized on www.ucl.ac.uk/neuroscience

Exhibitions: Exhibitor for *New Frontiers in Science*, 2000, at the Royal Society.

Editorial Boards:

Oxford Neuroscience Series, Oxford University Press (2000 onwards); *Proceedings of the Royal Society B* (2007); *Trends in Cognitive Sciences*, (1998 onwards); *Cognitive Neuropsychology* (until 1997); *Visual Cognition* (1993-1999); *Q J Exp Psychol* (1993-1997).

Committees:

Executive committee of the UCL Institute of Neurology, London, 2004 onwards.

Executive committee of Attention and Performance, 2004 onwards.

Joint chair (with Prof Michael Haussler) of UCL Neuroscience executive committee, 2008 onwards. This committee oversees the strategic direction of neuroscience at UCL for over 450 principal investigators, representing well over a third of UCL's turnover.

British Academy, standing group, Section 6, 2007 onwards

British Academy, psychology committee, 2007 onwards

Chair, UCL Institute of Cognitive Neuroscience group-leaders committee, 2004-2009

UCL Faculty of Life Sciences management committee, 2007-2009

UCL Division of Psychology and Language Sciences management committee, 2007-2009

UCL Public Activities committee, 2004-2009

Chair, Scientific Advisory Board, Gatsby Computational Neuroscience Board, 2007 onwards

Scientific strategy committee, Sainsbury-Wellcome Centre for Neural Circuits and Behaviour, 2007 onwards

Research Councils:

MRC Advisory Board and College of Experts (2002-2008). Guest panelist for Wellcome Neuroscience and Mental Health Committee, 2009. Regular reviewer for Biotechnology and Biological Sciences Research Council; Engineering and Physical Sciences Research Council; Parkinson's Disease Society; Stroke Association; Wellcome Trust; Economic and Social Research Council; National Institutes of Health (USA); McDonnell-Pew Foundation; Human Frontiers Science Program; US Airforce Office of Scientific Research; Natural Science and Engineering Research Council (Canada); Israel Science Foundation; INSERM (France); Max Planck Society (Germany); European Commission.

Ad hoc referee for:

Nature, Science, Nature Neuroscience, Acta Psychologica, Brain, Canadian Journal of Psychology, Cerebral Cortex, Cognition, Cognitive Psychology, Cognitive Neuropsychology, Cortex, European Journal of Cognitive Psychology, European Journal of Neuroscience, Experimental Brain Research, Journal of Cognitive Neuroscience, Journal of Experimental

Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning, Memory and Cognition, Journal of Experimental Psychology: General, Journal of Neurology, Neurosurgery and Psychiatry, Journal of Neurophysiology, Journal of Neuroscience, Memory, Multiple Sclerosis, Nature Neuroscience, Neurocase, Neuroimage, Neuron, Neuropsychologia, Neuroscience, Perception, Perception & Psychophysics, Psychobiology, Psychological Medicine, Psychological Research, Psychological Review, Psychological Science, Quarterly Journal of Experimental Psychology, Trends in Cognitive Sciences, Trends in Neuroscience, Vision Research, Visual Cognition, Visual Neuroscience.

Member of:

Academia Europaea; Academy of Medical Sciences; Cognitive Neuroscience Society; Psychonomic Society; International Neuropsychology Society; British Neuropsychological Society; British Neuroscience Association; Experimental Psychology Society; British Psychological Society.

Publications:

See list, which includes well over 200 full scientific publications.