

CURRICULUM VITAE

PERSONAL DETAILS

Name & Title: Adrian Mark Owen, OBE, Ph.D.
 Professor in Cognitive Neuroscience & Imaging

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Nationality: British

EDUCATION

1985-1988 Experimental Psychology B.Sc. (Hons).
 Department of Psychology, University College London.

1989-1992 Ph.D. Frontostriatal Mechanisms in Planning and Attention
 Institute of Psychiatry, University of London.

EMPLOYMENT HISTORY

1988-1992.
 Research Neuropsychologist, Department of Experimental Psychology, University of Cambridge, U.K.

1993-1995.
 Post-Doctoral Fellow, Cognitive Neuroscience Unit, Montreal Neurological Institute, Montreal, Canada.

1996-1997.
 Senior Research Associate, Department of Psychiatry, University of Cambridge, U.K.

1997-2010.
 Senior Scientist & Assistant Director,
 MRC Cognition and Brain Sciences Unit, Cambridge, U.K.

2011- 2018
 Canada Excellence Research Chair in Cognitive Neuroscience and Imaging, Department of Psychology and the Department of Physiology & Pharmacology, University of Western Ontario, Canada.

2018 – present

Professor in Cognitive Neuroscience and Imaging,
Department of Physiology & Pharmacology and the Department of Psychology, University of
Western Ontario, Canada.

OTHER ACADEMIC/RESEARCH POSITIONS HELD

1997-2011

Associate Lecturer, Department of Psychiatry, University of Cambridge, U.K.

1998-2005

Assistant Director for Activation Studies, Wolfson Brain Imaging Centre, Cambridge, U.K.

1995-2000

Vice-President, International Society for Behavioural Neuroscience

2000-2001

Visiting Professor, University of Belgrade, Serbia

2000-2011

Official Fellow, Clare Hall College, Cambridge, U.K.

2012-present

Faculty Affiliate, National Core for Neuroethics, University of British Columbia, Canada

2012-present

Member, Rotman Institute of Philosophy, University of Western Ontario, Canada

2013-present

International Scientific Advisory Committee, Institute of Cognitive Neurology, Buenos Aires,
Argentina

2014-present

Co-Director and Koerner Fellow, Azrieli Program in Brain Mind and Consciousness, Canadian
Institute for Advanced Research (CIFAR)

2019-present

Scientist, Robarts Research Institute, Canada

EDITORIAL/GRANT RESPONSIBILITIES

1997-2005

Deputy Editor-In-Chief, *European Journal of Neuroscience*.

2006-2012

Associate Editor, *Journal of Neuroscience*.

2007-present

Editorial Advisory Board, *Annals of the New York Academy of Sciences*

2007-2012

Wellcome Trust Neuroscience and Mental Health Funding Committee

2010-present

European Academy of Neurology, Higher Cortical Functions Committee

2010-present

European Academy of Neurology, Coma and Chronic Disorders of Consciousness Committee

2012-2016

Wellcome Trust Peer Review College

2012-2017

Gairdner Awards Medical Review Panel

2014-present

Canadian Institutes of Health Research (CIHR) Peer Review Committee

2014-present

The Year in Cognitive Neuroscience Editorial Advisory Board

2017-present

College of Reviewers, Canadian Institutes of Health Research (CIHR)

MEDIA/CONTRIBUTIONS TO PUBLIC UNDERSTANDING OF SCIENCE

My research has regularly attracted international attention from the media and has been widely discussed on TV, radio, in print and online.

Television

Includes BBC News, Channel 4 News, ITV News, Sky News, Anderson Cooper 360° (CNN), “60 Minutes” documentary (CBS), Channel 4 documentary, BBC2 “Awakenings” documentary, BBC ‘Inside Out’ documentary, History Channel ‘Science of The Soul’ documentary, BBC1 Horizon Special 2009, BBC1 ‘Bang Goes The Theory’ programme, Consultant for BBC ‘Science Lab’, ‘How Science Changed Our World’ (BBC), Panorama (BBC), Canada AM (CTV), The National (CBC), The Agenda (TVO), Global News, Dutch News, PBS News.

Radio

Includes “Frontiers” documentary (Radio 4), BBC World Service ‘Outlook’ documentary, NPR Radio (USA), BBC Radio 1, 2, 3 and 4 news features, ABC Radio, Australia, ‘Today’ Programme (Radio 4), CBC ‘Q’ with Jian Ghomeshi, Quirks and Quarks (CBC1), CBC Ontario Morning, CBC News ‘The Current’.

Newsprint Includes describing our research have appeared in Macleans Magazine, The New Yorker, The Times, The Sunday Times, The Economist, The Observer Magazine, The Guardian, The Independent, The Financial Times, The Daily Telegraph, The Daily Mail, The Express, The Sun, The Scotsman, The New York Times, The Wall Street Journal, The Washington Post, Chicago Tribune, Scientific American, New Scientist, The Boston Globe, Discovery Magazine,

Le Soir, El Mundo, The Sydney Morning Herald, China Daily. Voted ‘Scientist to Watch’ in 2008 by The Financial Times, Readers Digest.

Online

Includes Nature (podcast), Macleans Magazine, Science Magazine, The Guardian (podcast), BBC News plus numerous website commentaries, blogs, articles and comments across the WWW.

Museums

My work has featured prominently in two exhibits at the Science Museum, London U.K. in 1999 (‘The Memory Machine’) and 2007 (‘Neurobiotics’). It was also part of the ‘States of Mind: Tracing the Edges of Consciousness’ exhibition at the Wellcome Collection, Wellcome Trust London, U.K. (2016).

Pop Culture

My research has been used in the plot of three separate fictional novels to date; “Locked In”, by Marcia Muller, “Afterwards” by Rosamund Lupton and “And Then It Happened”, by Linda Green. It featured prominently in “The UnDead” by Dick Teresi. It has also been the focus of a BBC Radio play by Wally K. Daly “Me who? Who me?”, has been mentioned by the character Sheldon Cooper in an episode of ‘The Big Bang Theory’ (CBS, 2012), and by Jay Leno on ‘The Late Show’. It has also been used to motivate the plot in two TV shows, ‘Perception’ (2013) and ‘The X-Files’ (2016) and was the basis for a good-natured joke on the BBC’s show ‘QI’ with Sandi Toksvig (2019). My psychological research has also been used as the basis for numerous popular cartoons, which have appeared in the Guardian (2010), The Irish Times (2010) and others.

INVITED LECTURES

2010

Keynote Address, The Organisation for Human Brain Mapping, Barcelona, Spain
 LoveBox Festival, London, UK
 Secret Garden Party Festival, London, UK
 Humanist’s Society, Cambridge, UK
 BCBT Keynote Lecture, University of Barcelona, Spain
 Spinoza Center for Neuroimaging – Opening Lecture, Amsterdam, Netherlands
 Ordine dei Medici of Nuoro Conference Keynote, Sardinia, Italy
 Poptech, Maine, USA
 Taylor Prize Lecture, University of Western Ontario, London, Canada
 Clare Hall Faculty Lecture, University of Cambridge, Cambridge, UK
 Western Alumni Lecture, The Cavalry and Guards Club, London, UK
 Leaders Forum, University of Western Ontario, London, Canada

2011

Western Alumni Lecture, University of Western Ontario, London, Canada
 University Graduate Career Day, University of Western Ontario, London, Canada
 Biomedical Research Imaging Centre (BIRC), University of Western Ontario, London, Canada

L.O.V.E. Conference Lecture, Niagara Falls, Canada
 TedX UWO, Grand Theatre, London, Canada
 Classes without Quizzes Lecture, London Public Library, London, Canada
 Psychiatry Dept seminar, University of Western Ontario, London, Canada
 Schulich Alumni Lecture, University of Toronto, Canada
 Partners In Research Address, Lamplighter Inn, London, Canada
 Dalhousie University (3 lectures), Halifax, Canada
 James S. McDonnell Foundation meeting, Miami, US
 Biochemistry Dept seminar, University of Western Ontario, London, Canada
 Western Alumni Lecture, Provincial Legislative Building, Queen's Park, Toronto, Canada
 Brain Matters 2 Conference Keynote, Montreal, Canada
 London Medical Alumni Reception, The Hunt Club, London, Canada
 The Cheltenham Science Festival, Cheltenham, UK
 Visit and Talk with Queen Beatrix, The Royal Palace, Amsterdam, The Netherlands
 Toronto Sick Kids International Conference, Toronto, Canada
 The British High Commission, Ottawa, Canada
 Sao Paulo, Brazil, (an audience with the Dalai Lama)
 Public Debate with Roger Highfield, The Royal Institution, London UK
 City Symposium, London Library, London, Canada
 Brain Research Centre UBC Hospital, British Columbia, Canada
 University of British Columbia, British Columbia, Canada
 Western Alumni Event, British Columbia, Canada
 Rotman Institute of Philosophy, London, Canada

2012

JUMP Research Seminar Series, Western University, London, Canada (Jan)
 Advanced Seminar in Neuroscience, University of Alberta, Alberta, Canada (Jan)
 Western University, Department of Pathology, London, Canada (Jan)
 Kiwanis Club of London, London, Canada (Feb)
 Paediatric Grand Rounds, University Hospital, London, Canada (Feb)
 Michael J. Quinn Memorial Lecture, University of British Columbia, Vancouver, Canada (Feb)
 NIH Neuroscience Seminar Series, NIH, Maryland, USA (Feb)
 Psychology 2011-2012 Colloquium Series, Yale University, Connecticut, USA (Feb)
 Brock University, St. Catharines, Canada (Mar)
 Rotman Rounds 2012, Toronto, Canada (Mar)
 Brain Awareness Week Lecture, University of Manitoba, Manitoba, Canada (Mar)
 McMaster University Scientific Colloquium, Hamilton, Canada (Mar)
 Michigan State University Distinguished Speaker Series in Cognitive Science, Mich., USA (Apr)
 New Opportunities in TBI Research Workshop, CIHR INMHA, Toronto, Canada (Apr)
 David Colman Symposium, McGill University, Montreal, Canada (May)
 CAN – ACN Plenary Symposium, Canadian Association for Neuroscience, BC, Canada (May)
 Annual Clinical Day in Family Medicine, Western University, London, Canada (May)
 Neuroscience Grand Rounds lecture series, Vermont, Burlington, USA (Nov)
 Regional Meeting for the Canadian Association of Research Ethics Board (CAREB), London, Canada (Dec)

2013

Finding Consciousness Workshop, Duke University, North Carolina, USA (Jan)
 25th Annual Meeting of the Spring Conference on Behaviour and Brain, BC, Canada (Feb)

Rotman Research Institute 23rd Annual Neuroscience Conference, Toronto, Canada (Mar)
 7th Annual Meeting of the American Society of Functional Neuroradiology, SC, USA (Mar)
 Caltech Brain, Mind & Society Seminar Series, California, USA (Mar)
 11th Annual 2013 HCTP Annual Interdisciplinary, Toronto, ON, Canada (Mar)
 Queen's University Psychology Seminar Series, Kingston, ON, Canada (Mar)
 3 Lectures at Minnesota Center for Philosophy of Science, Minnesota. USA (Apr)
 Department of Physics & Astronomy Seminar Series, Western University, Canada (Apr)
 UofT Seniors College Symposium, Toronto, ON, Canada (Apr)
 New Frontiers Seminar Series, UofT, Toronto, ON, Canada (Apr)
 Neuronus 2013, Krakow, Poland (May)

2014

UHN Toronto Rehabilitation Institute TBI Conference, Toronto, ON, Canada
 Parkwood Hospital Grand Rounds, London, ON, Canada
 IBIA World Congress on Brain Injury Plenary Session, San Francisco, CA, USA
 St Michael's Hospital Research Rounds, Toronto, ON, Canada
 The Hospital for Sick Children Grand Rounds, Toronto, ON, Canada
 25th Anniversary Celebration of the British Neuropsychological Society, Oxford, UK
 GEOPD 2014, University of British Columbia, Vancouver, B.C.
 Functional Neuroimaging Unit 10th Anniversary, University of Montreal, Montreal, QB
 Royal College of Physicians of Edinburgh Neurology Symposium, Edinburgh, Scotland
 Forum for consciousness research, Oslo University, Oslo, Norway
 Department of Medical Neuroscience, Dalhousie University, Halifax, Nova Scotia
 NYU Conference on Borderline States of Consciousness, New York, USA

2015

Annual St. Bartholomew's Hospital Neuroscience Symposium - London UK
 University of Waterloo Psychology Colloquium, Waterloo, ON, Canada
 Anatomy & Cell Biology Department Symposium, Western University, London, Canada
 BNA 2015 Festival of Neuroscience, Edinburgh, Scotland
 ASSC19 Symposium, Paris, France
 Rehabilitation Institute of Chicago, Chicago, USA
 Western Alumni, Ottawa, Canada
 St. Lawrence University, NY, USA
 The UA Global Summit 2015, Dublin, Ireland

2016

The Harvey Club, London, Canada
 University of Edmonton, Alberta
 Society for Neuroscience's Southwestern Ontario Chapter (SONA), Waterloo, Canada
 Canadian Science Writers' Association, Guelph, Canada
 Durham University Neuroimaging Centre, Institute of Advanced Study's theme 'Evidence
 Gordon Research Conference, Maine, USA
 Brain Injury Canada Conference, Toronto, Canada
 The Canadian Association of Neuropathologists (CANP) annual meeting in Niagara-On-The-Lake, Canada

2017

Gairdner Lecture, Thunder Bay, Canada

Harley Hotchkiss Memorial Lecture Series, University of Lethbridge, Alberta, Canada
 Science Museum, London, UK
 Brain Injury Canada Conference, Saint John, NB, Canada
 Annual Brenda Milner Lecture in Cognitive Neuroscience, Montreal, Canada
 ASSC 2017, Beijing, China
 New Live Scientist Festival, London, UK
 Cheltenham Literary Festival, UK
 Manchester Science Festival, UK

2018

Night of Ideas, Art Museum at the University of Toronto, Canada
 Baycrest Rotman Research Institute Conference, TBI and Concussion, Toronto, Canada
 Mind Science Foundation, San Antonio, Texas, USA
 See the Line – Scientific Workshop, London, Canada
 Memory Disorders Research Society meeting, Toronto, Canada
 8th Annual Mental Health Symposium, Department of Psychiatry, London, Canada

2019

International Neuropsychological Society, New York, USA
 International Scientific Conference on Neuroethics (SINe), Milan, Italy
 Brain Balance Convention, Las Vegas, NV, USA
 Parkwood Hospital, Lunch and Learn, London, Canada
 The Walrus, Gatineau, QB, Canada
 HCA Healthcare UK: Prolonged Disorders of Consciousness, London, UK
 XXIV World Congress of Neurology, Dubai, UAE

2020

Generator, Roy Thomson Hall, Toronto, Canada
 One Book One London, London Public Library, London, Canada

PUBLICATIONS

h-index (2020) = 110 (GoogleScholar)

Refereed Journals

1. **Owen, A.M.**, Downes, J.D., Sahakian, B.J., Polkey, C.E. and Robbins T.W. Planning and spatial working memory following frontal lobe lesions in Man. *Neuropsychologia*, 28 (10): 1021-1034, 1990.
2. Almeida, O.P., Forstl, H., Howard, R., **Owen, A.M.**, and Levy R. Aspectos psiquiatricos e neurologicos da síndrome de capgras e de outros distúrbios de identificação correlatos. *Revista ABP-APAL (Associação Brasileira de Psiquiatria-Asociación Psiquiátrica de la América Latina)* 13(2): 63-67, 1991.
3. Forstl, H. Almeida, O.P., **Owen, A.M.**, Burns, A. and Howard, R. Psychiatric, neurological and medical aspects of misidentification syndromes: A review of 260 cases. *Psychological Medicine*, 21(4): 905-910, 1991.

4. **Owen, A.M.**, Roberts, A.C., Polkey, C.E., Sahakian, B.J. and Robbins T.W. Extra-dimensional versus intra-dimensional set shifting performance following frontal lobe excisions, temporal lobe excisions or amygdalo-hippocampectomy in Man. *Neuropsychologia*, 29(10): 993-1006, 1991.
5. Lange, K.W., Robbins, T.W., Marsden, C.D., James, M., **Owen, A.M.** and Paul, G.M. L-Dopa withdrawal in Parkinson's disease selectively impairs cognitive performance in tests sensitive to frontal lobe dysfunction. *Psychopharmacology*, 107, 2-3: 394-404, 1992.
6. **Owen, A.M.**, James, M., Leigh, P.N., Summers, B.A., Marsden, C.D., Quinn, N.P., Lange, K.W. and Robbins, T.W. Fronto-striatal cognitive deficits at different stages of Parkinson's disease. *Brain*, 115 (Pt 6): 1727-1751, 1992.
7. Robbins, T.W., James, M., Lange, K., **Owen, A.M.**, Quinn, N. and Marsden, C.D. Cognitive performance in Multiple System Atrophy. *Brain*, 115 (Pte 1): 271-291, 1992.
8. Sahakian, B.J. & **Owen, A.M.** Computerized assessment in Neuropsychiatry using CANTAB: discussion paper. *Journal of the Royal Society of Medicine*, 85 (7): 399-402, 1992.
9. David, A., **Owen, A.M.** and Forstl, H. An annotated summary and translation of "On the self-awareness of focal brain diseases by the patient in cortical blindness and cortical deafness" by Gabriel Anton (1899). *Cognitive Neuropsychology*, 10(3): 263-272, 1993.
10. Forstl, H. & **Owen, A.M.** David A. Gabriel Anton and 'Anton's symptom': "on focal diseases of the brain which are not perceived by the patient" (1898). *Neuropsychiatry, Neuropsychology and Behavioral Neurology*, 6: 1-6, 1993.
11. **Owen, A.M.**, Beksinska, M., James, M., Leigh, P.N., Summers, B.A., Marsden, C.D., Quinn, N.P., Sahakian, B.J. and Robbins, T.W. Visuo-spatial memory deficits at different stages of Parkinson's disease. *Neuropsychologia*, 31 (7): 627-644, 1993.
12. **Owen, A.M.**, Roberts, A.C., Hodges, J.R., Summers, B.A., Polkey, C.E., and Robbins T.W. Contrasting mechanisms of impaired attentional set-shifting in patients with frontal lobe damage or Parkinson's disease. *Brain*, 116 (Pte 5): 1159-1179, 1993.
13. **Owen, A.M.**, David, A.S. and Forstl, H. Anton's syndrome after Anton. *Neuropsychiatry, Neuropsychology and Behavioral Neurology*, 6: 6-8, 1993.
14. Sahakian, B.J., **Owen, A.M.**, Morant, N.J., Eagger, S.A., Boddington, S., Crayton, L., Crockford, H.A., Crooks, M.M., Hill, K. and Levy, R. Further analysis of the effects of tetrahydroaminoacridine (THA) in Alzheimer's disease on attentional and mnemonic function using CANTAB. *Psychopharmacology (Berl)*, 110(4): 395-401, 1993.
15. Robbins, T.W., James, M., **Owen, A.M.**, Lange, K.W., Lees, A.J., Leigh, P.N., Marsden, C.D., Quinn, N.P. and Summers, B.A. Cognitive deficits in Progressive Supranuclear

- Palsy, Parkinson's disease and Multiple System Atrophy in tests sensitive to frontal lobe dysfunction. *Journal of Neurology, Neurosurgery and Psychiatry*, 57: 79-88, 1994.
16. Robbins, T.W. James, M., **Owen, A.M.**, Sahakian, B.J., McInnes, L. and Rabbitt, P.M. Cambridge Neuropsychological Test Automated battery (CANTAB): a factor analytic study of a large sample of normal elderly volunteers. *Dementia*, 5 (5): 266-281, 1994.
 17. **Owen, A.M.**, Sahakian, B.J., Hodges, J.R., Summers, B.A., Polkey, C.E. and Robbins, T.W. Dopamine-dependent fronto-striatal planning deficits in early Parkinson's disease. *Neuropsychology*, 9: 126-140, 1995.
 18. **Owen, A.M.**, Sahakian, B.J., Semple, J., Polkey, C.E., and Robbins, T.W. Visuo-spatial short term recognition memory and learning after temporal lobe excisions, frontal lobe excisions or amygdalo-hippocampectomy in man. *Neuropsychologia*, 33, (1): 1-24, 1995.
 19. **Owen A.M.**, Beksinska, M., James, M., Leigh, P.N., Summers, B.A., Marsden, C.D., Quinn, N.P., Sahakian, B.J. and Robbins T.W. Visuo-spatial memory deficits at different stages of Parkinson's disease. In *1995 Year Book Of Neurology And Neurosurgery*. W.G. Bradley and R.H. Wilkins, (Eds.) Mosby, St. Louis, U.S.A., 1995.
 20. Baker, S.C., Rogers, R.D., **Owen A.M.**, Frith, C.D., Dolan, R.J., Frackowiak, R.S.J. and Robbins T.W. Neural systems engaged in planning: A PET study of the Tower of London Task. *Neuropsychologia*, 34(6): 515-526, 1996.
 21. **Owen A.M.**, Evans, A.C. and Petrides, M. Evidence for a two-stage model of spatial working memory processing within the lateral frontal cortex: a positron emission tomography study. *Cerebral Cortex*, 6(1): 31-38, 1996.
 22. **Owen A.M.**, Doyon, J., Petrides, M. and Evans, A.C. Planning and spatial working memory examined with positron emission tomography (PET). *European Journal of Neuroscience*, 8: 353-364, 1996.
 23. **Owen, A.M.**, Morris, R.G., Sahakian, B.J., Polkey, C.E. and Robbins, T.W. Double dissociations of memory and executive functions in working memory tasks following frontal lobe excisions, temporal lobe excisions or amygdalo-hippocampectomy in man. *Brain*, 119 (Pt 5): 1597-1615, 1996.
 24. **Owen, A.M.** Milner, B., Petrides, M., and Evans, A. A Specific Role for the Right Parahippocampal Region in the Retrieval of Object-Location: A Positron Emission Tomography Study. *Journal of Cognitive Neuroscience*, 8: 588-602, 1996.
 25. **Owen, A.M.**, Milner, B., Petrides, M. and Evans, A.C. Memory for Object-Features versus Memory for Object-Location: A Positron Emission Tomography Study of Encoding and Retrieval Processes. *Proceedings of the National Academy of Sciences*, 93: 9212-9217, 1996.

26. Doyon, J., **Owen A.M.**, Petrides, M., Sziklas, V. and Evans, A.C. Functional anatomy of visuomotor skill learning in human subjects examined with positron emission tomography. *European Journal of Neuroscience*. 8(4): 637-648, 1996.
27. Veale, D, Sahakian, B.J., **Owen, A.M.** and Marks, I. Specific cognitive deficits in tests sensitive to frontal lobe dysfunction in a sub-group of patients with Obsessive Compulsive Disorder. *Psychological Medicine*, 26(6): 1261-1269, 1996.
28. **Owen, A.M.**, Iddon, J.L., Hodges, J. R., Summers, B.A. and Robbins, T.W. Spatial and Non-Spatial Working Memory at Different Stages of Parkinson's Disease, *Neuropsychologia*, 35(4): 519-532, 1997.
29. **Owen, A.M.** The functional organization of working memory processes within human lateral frontal cortex: The contribution of functional neuroimaging. *European Journal of Neuroscience*, 9(7): 1329 - 1339, 1997.
30. **Owen, A.M.** Tuning in to the temporal dynamics of brain activation using functional magnetic resonance imaging (fMRI). *Trends in Cognitive Sciences*, 1: 123-125, 1997.
31. **Owen, A.M.** Cognitive planning in humans: neuropsychological, neuroanatomical and neuropharmacological perspectives. *Progress in Neurobiology*, 53: 431-450, 1997
32. Pantelis, C., Barnes, T.R.E., Nelson, H.E., Tanner, S., Weatherley, L., **Owen, A.M.** and Robbins, T.W. Frontal-striatal cognitive deficits in patients with chronic schizophrenia. *Brain*, 120 (10): 1823-1843, 1997.
33. Menon, D.K., **Owen, A.M.**, Williams, E., Minhas, P.S., Allen, C.M.C., Boniface, S. and Pickard, J.D. Cortical processing in the persistent vegetative state. *Lancet*, 352(9123): 200, 1998.
34. **Owen, A.M.** Memory: dissociating multiple memory processes. *Current Biology*, 8(23): R850-852, 1998.
35. **Owen, A.M.**, Doyon, J., Dagher, A., Sadikot A. and Evans, A.C. Abnormal Basal-Ganglia Outflow in Parkinson's Disease Identified with Positron Emission Tomography: Implications for Higher Cortical Functions. *Brain*, 121, (Pte 5): 949-65, 1998.
36. **Owen, A.M.**, Stern, C. E., Look, R. B., Tracey, I., Rosen, B. R. and Petrides, M. Functional organization of spatial and non-spatial working memory processes within the human lateral frontal cortex. *Proceedings of the National Academy of Sciences*, 95(13): 7721-7726, 1998.
37. Robbins, T.W., James, M., **Owen, A.M.**, Sahakian, B.J., Lawrence, A.D., McInnes, L. and Rabbitt, P. A study of performance on tests from the CANTAB battery sensitive to frontal lobe dysfunction in a large sample of normal volunteers: implications for theories of executive function and cognitive ageing. Cambridge Neuropsychological Test Automated Battery. *Journal of the International Neuropsychological Society*, 4(5): 474-490, 1998.

38. Rushworth, M.F.S. and **Owen, A.M.** The functional organisation of the lateral frontal cortex: conjuncture or conjecture in the electrophysiology literature? *Trends in Cognitive Sciences*, 2: 46-53, 1998.
39. **Owen, A.M.**, Herrod, N.J., Menon, D.K., Clark, J.C., Downey, S.P.M.J., Carpenter, T.A., Minhas, P.S., Turkheimer, F.E., Williams, E.J., Robbins, T.W., Sahakian, B.J., Petrides, M. and Pickard, J.D. Redefining the functional organisation of working memory processes within human lateral prefrontal cortex. *European Journal of Neuroscience*, 11(2): 567-574, 1999.
40. Dagher, A., **Owen, A.M.**, Boecker, H. and Brooks, D.J. Mapping the network for planning: a correlational PET activation study with the Tower of London task. *Brain*, 122 (Pte 10): 1973-1987, 1999.
41. Doyon, J., **Owen, A.M.**, Jackson, P. L., Lafleur, M., Cesaro, P. and Remy, P. Analysis des effets therapeutiques au plan moteur et cognitif des greffes de cellules mesencephaliques dopaminergiques chez les patients atteints de la maladie de parkinson. *Medecine/Sciences*, 1(5): XX-XXIII. 1999.
42. **Owen, A.M.** & Doyon, J. The cognitive neuropsychology of Parkinson's disease: a functional neuroimaging perspective. *Ad. Neurol.*, 80: 49-56, 1999.
43. Johnsrude, I.S., **Owen, A.M.**, Crane, J., Milner, B. and Evans, A.C. A cognitive activation study of memory for spatial relationships. *Neuropsychologia*, 37(7): 829-841, 1999.
44. Johnsrude, I.S., **Owen, A.M.**, Zhao, V.W. and White, N.M. Conditioned preference in humans: A novel experimental approach. *Learning and Motivation*, 30: 250-264, 1999.
45. **Owen, A.M.**, Doyon, J., Dagher, A. and Evans, A.C. Abnormal basal-ganglia outflow in Parkinson's disease identified with positron emission tomography: implications for higher cortical functions. *Focus on Parkinson's Disease*, pp18-19, 1999.
46. Rogers, R. D., **Owen, A.M.**, Middleton, H. C., Williams, E.J., Pickard, J. D., Sahakian, B. J. and Robbins, T. W. Choosing between small, likely rewards and large, unlikely rewards activates inferior and orbital prefrontal cortex. *Journal of Neuroscience*, 20(19): 9029-9038, 1999.
47. Menon, D.K., **Owen, A.M.**, Williams, E.J. and Pickard, J.D. Response from Menon, Owen and Pickard. *Trends In Cognitive Sciences*, 3(2): 44-46, 1999.
48. Pantelis, C., Barber, F. Z., Barnes, T.R.E., Nelson, H.E., **Owen, A.M.** and Robbins, T.W. Comparison of set-shifting ability in patients with schizophrenia and frontal lobe damage. *Schizophrenia Research*, 37(3): 251-270, 1999.
49. Hodgson, T. L., Bajwa, A., **Owen, A.M.** and Kennard, C. The strategic control of gaze direction in the Tower of London Task. *Journal of Cognitive Neuroscience*, 12(5): 894-907, 2000.

50. Mehta, M. A., **Owen, A.M.**, Sahakian, B. J., Mavaddat, N., Pickard, J. D. and Robbins, T. W. Methylphenidate enhances working memory by modulating discrete frontal and parietal lobe regions in the human brain. *Journal of Neuroscience*, 20(6): RC65, 2000.
51. Lee, A.C.H., Robbins, T.W., Pickard, J. D. and **Owen, A.M.** Asymmetric frontal activation during episodic memory: the effects of stimulus type on encoding and retrieval. *Neuropsychologia*, 38 (5): 677-692, 2000.
52. Stern, C. E., **Owen, A.M.**, Tracey, I, Look, R. B., Petrides, M. and Rosen, B. R. Activity in ventrolateral and mid-dorsolateral prefrontal cortex during non-spatial visual working memory processing: evidence from functional magnetic resonance imaging. *Neuroimage*, 11(5 Pte 1): 392-399, 2000.
53. Johnsrude, I.S., **Owen, A.M.**, White, N.M., Zhao, V.W. and Bohbot, V. Impaired preference conditioning after anterior temporal-lobe resection in humans. *Journal of Neuroscience*, 20(7): 2649-2656, 2000.
54. **Owen, A.M.**, Lee, A.C.H. and Williams. Dissociating aspects of verbal working memory within the human frontal lobe: further evidence for a 'process-specific' model of lateral frontal organization. *Psychobiology*, 28(2): 146-155, 2000.
55. **Owen, A.M.** The role of the lateral frontal cortex in mnemonic processing; The contribution of functional neuroimaging. *Experimental Brain Research*, 133(1): 33-43, 2000.
56. Vandenberghe, R., Duncan, J., Arnell, K.M., Bishop, S.J., Herrod, N. J., **Owen, A.M.**, Minhas, P.S., Dupont, P., Pickard, J.D. and Orban, G.A. Maintaining and shifting attention within left or right hemifield. *Cerebral Cortex*, 10(7): 706-713, 2000.
57. Johnsrude, I.S., Giraud, A.L., Morosan, P., Brett, M., **Owen, A.M.** and Zilles, K. Functional Imaging of the auditory system: The use of positron emission tomography. Proceedings of the 4th Annual Congress of Otorhinolaryngology Head and Neck Surgery, 35-42, 2000.
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