

CURRICULUM VITAE

PERSONAL DETAILS

Name & Title: Adrian M. Owen B.Sc. (Hons) Ph.D.
Canada Excellence Research Chair 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

July 1988-December 1992.

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

January 1993-December 1995.

McDonnell-Pew Post-Doctoral Research Fellow, Neuropsychology/Cognitive Neuroscience Unit, Montreal Neurological Institute, Montreal, Canada.

January 1996-April 1996.

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

April 1996-June 1997.

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

June 1997-2010.

Senior Scientist & Assistant Director,
MRC Cognition and Brain Sciences Unit (formerly Applied Psychology Unit), Cambridge, U.K.

January 2011- present

Canada Excellence Research Chair in Cognitive Neuroscience and Imaging, University of Western Ontario, Canada.

January 2011 – present

Professor, Departments of Psychology, Physiology & Pharmacology, Anatomy & Cell Biology, University of Western Ontario, Canada.

OTHER ACADEMIC/RESEARCH POSITIONS HELD

June 1997-2011

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

August, 1998-2005

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

June 1995-2000

Vice-President, International Society for Behavioural Neuroscience

December 2000-December 2001

Visiting Professor, University of Belgrade, Serbia

July 2008-present

Visiting Professor, Institute of Psychiatry, London, U.K.

March 2000-2011

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

January 2011 – present.

Research Affiliate, Robarts Research Institute, London, Canada

January 2012 – present

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

April 2012 – present

Member of the Rotman Institute of Philosophy at Western University, Canada

August 2013 – present

Member of the International Scientific Committee for the Institute of Cognitive Neurology (INECO) and the INECO Foundation, Buenos Aires, Argentina

January 2015 – present

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

EDITORIAL/GRANT RESPONSIBILITIES

September 1997-2005

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

December 2006-2012

Associate Editor, *Journal of Neuroscience*.

February 2007-present

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

October 2007 – 2012

Member, *Wellcome Trust Neuroscience and Mental Health Funding Committee*

2010 – present

Member of the European Academy of Neurology, Higher Cortical Functions Committee

2010 – present

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

October 2012 – 2017

Member, *Wellcome Trust Peer Review College*

October 2012 – October 2015

Member, *Gairdner Medical Review Panel*

June 2014-present

Peer Review Committee. *Canadian Institutes of Health Research (CIHR)*

2014 – present

Editorial Advisory Board Member, *The Year in Cognitive Neuroscience*

RECENT GRANTS

Owen, A.M. (2002-2004) Role of the frontopolar cortex in cognition. EU-Marie Curie Grant for Dr Kalina Christoff, £73,508.

Owen, A.M., Slabosz, A. (2003-2005). Investigating the Causes and Consequences of Attentional Deficits in Parkinson's Disease. British Council Partnership Grant, £2,610.

Slabosz, A.M., Owen, A. (2004-2006). Investigating Cognitive Heterogeneity in Parkinson's Disease: A Combined Neuropsychological, Neuropharmacological and Functional Neuroimaging Approach. Wellcome Trust Travelling Research Fellowship, £91,783.

Barker, R., Owen, A.M., Robbins, T. (2004-2007) Defining the cognitive deficits in a population based incident cohort of early Parkinson's disease and their relationship to frontostriatal activation and COMT activity. Parkinson's Disease Society UK, £143,445.

Owen, A.M. (2007-2009) fMRI studies in Parkinson's Disease. Cambridge Centre for Brain Repair, £15,000.

Owen, A.M. (2007-2009) Neurophysiological impacts across SensCam subjects with different memory disorders: comparing fMRI and PET brain scans of Alzheimer's, Amnesia, and healthy subjects. Microsoft Research Cambridge, £9,188.

Owen, A.M. (2008) Royal Society Travel Grant, £840.

Cusack R. & Owen A.M. (2008) Automatic Analysis for Neuroimaging. MRC Technology Development Gap Fund, £33 100.

Owen, A.M. (2008-2009) Web-based Cognitive Brain Training & Rehabilitation. MRC Development Gap Fund, £75,000.

Owen, A.M. (2008-2010) Looking for the Neural Basis of Human Consciousness through levels of awareness. EU-Marie Curie Grant for Dr Tristan Bekinschtein, £130,095.

Owen, A.M., Coleman, M. and Pickard J.D. (2008-2012) Detecting awareness in the vegetative and minimally conscious states: Novel clinical applications. MRC Translational Grant, £761,361.

Burn, D.J. Barker, R.A., Tiernan, J.T., Chinnery, P.F., Sawcer, S., Coleman, S., Robbins, T.W., Brayne, C., Owen, A.M., Brooks, D.J. (2009-2014). Predicting Dementia in Parkinson's disease: A Genotypic and Phenotypic study. The Parkinson's Disease Society UK, £1.18 million.

Schiff, N., Owen, A.M., Laureys S. (2009-2012) Recovery of consciousness after severe brain injury. The James S. McDonnell Foundation, \$3.8 million USD.

Kubler, A.M., Owen, A. M., Goebel, R., Laureys, S. Kotchoubey, B., Mattia, D., Babiloni, F. et al. (2009 – 2013) Deployment of Brain-Computer Interfaces for the Detection of Consciousness in Non-Responsive Patients (DECODER) 3.9 million Euros.

Owen, A.M., (2011-2018) From Cognitive Neuroscience to Clinical Practice - Canada Excellence Research Chair Award - \$10 Million CDN.

Illes, J., Owen, A.M., Ribrary, U., Stoessl, A.J. (2011 – 2014) Neuroimaging for Disorders of Consciousness: Charting the Canadian Ethics Landscape. CIHR, \$300,000 CDN.

Owen, A.M. (2013-2014) From Cognitive Neuroscience to Clinical Practice. Canadian Foundation for Innovation – Leaders Opportunity Fund. \$1.6million CDN.

Cusack, R., Owen, A.M., Daley, M., Gelman, N., Thompson, T., Han, V., Lee, D., Levin, S. (2012 – 2015) Assessing Neonatal Brain Function with fMRI. NSERC CHRP, \$545,139 CDN.

Owen, A.M. (2012-2017) Decoding Mental States with fMRI and EEG. NSERC Discovery Grant, \$280,000 CDN.

Mitchell, D., Owen, A.M., Goodale, M., Culham, J., Joanisse, M. & Ansari, D. (2012) Eye tracking and 3 dimensional visualization: synergistic and ecologically valid approaches to neuroimaging research. NSERC RTI (Research Tools and Instruments), \$109,066 CDN.

Norton, L. (2012-2015) CIHR Doctoral Award under the supervision of Adrian Owen. Innovative Prognostic Testing of Comatose Patients Using fMRI. \$105,000 CDN.

Cruse, D. (2012-2015) CIHR Fellowship under the supervision of Adrian Owen. Communicating with patients who appear to be in the vegetative state. \$135,000 CDN.

Menon, R., Owen, A.M., Ansari, D., Chronik, B., Culham, J., Cusack, R., Everling, S., Goodale, M., Han, V. & Williamson, P. (2012) Centre for Functional and Metabolic Mapping. CFI (Canadian Foundation for Innovation), \$6,235,244 CDN.

Petrella, R., Gill, D., Hachinski, V., Liu-Ambrose, T., Owen, A.M. & Shoemaker, K. (2013 – 2016) Healthy Mind, Healthy Mobility: Combined Dual-task Gait Training and Aerobic Exercise for Older Adults with Cognitive Impairment. CIHR Operating Grant, \$356,547 CDN.

Schiff, N., Claassen, J., Laureys, S., Pickard, J., Owen, A.M., Giacino, J., Sompolinsky, H., Naccache, L., Dehaene S. & Bagiella, E. (2013 – 2017) A collaborative study of recovery of consciousness after severe brain injury: Phase II, James S. McDonnell Grant, \$6,445,351 CDN

Owen, A.M., Cusack, R. & Young, G.B. (2013 – 2018) Using neuroimaging to assess cognitive function after serious brain injury. CIHR Operating Grant, \$1,031,710 CDN.

Weijer, C., Owen, A.M. *et al.* (2014-2018) The ethics of neuroimaging after serious brain injury. CIHR Operating Grant, \$343,720 CDN.

Owen, A. M. (2014) Simultaneous and synchronized electroencephalography (EEG) and functional magnetic resonance imaging (fMRI) during sleep in normal and brain injured populations. NSERC Research Tools and Instruments grant \$145,503 CDN

Owen, A.M. (2014) CFI - From Cognitive Neuroscience to Clinical Practice. CFI – IOF (Infrastructure Operating Fund) \$58,559.00 CDN.

Hutchison, J.S. (co-lead), Turgeon, A.F. (co-Lead), Emery, C.A., Gagnon, I, Wellington, C.L., Riopelle, R.J. (Principal Knowledge User), Owen, A.M. (Collaborator), et al. (2015-2019) Canadian Traumatic Brain Injury Research Consortium. CIHR Operating Grant, \$1,824,513 CDN.

Owen, A.M. (Scientific Director), Saksida, L.M. (Scientific Director), *et al.* (2016 – 2023) BrainsCAN: Brain Health for Life. Canada First Research Excellence Fund (CFREF), \$66M CDN.

AWARDS, HONOURS, FELLOWSHIPS, MISCELLANEOUS AFFILIATIONS ETC.

1. July, 1987. C.G. Drew Prize University College London, London, England.
2. November, 1994. Visiting Fellow, Program in Functional Magnetic Resonance Imaging, Massachusetts General Hospital, Boston, Massachusetts.
3. March, 1995. Pinsent-Darwin Research Fellowship, University of Cambridge, Cambridge, England (From January, 1996).
4. June 1995. H. L. Teuber Prize. Montreal Neurological Institute.
5. 2006. Short-listed for Morgan-Stanley ‘Great Briton of 2006’
6. Invited Judge: Max Perutz Prize, 2008
7. 2010. Voted 50th ‘Most Important person in British Science and Engineering’. The Times, London, UK.
8. May 2013 - Hellmuth Prize for Achievement in Research Award, Western University, London, Canada
9. April 2015 – Invited Judge in the Ontario Final of the 3 Minute Thesis (3MT) Competition

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).

RECENT INVITED LECTURES

2007

BA Science Festival
Respondent, Clare Hall Tanner Lectures, Cambridge

2008

Cheltenham Science Festival
BA Science Festival

2009

Latitude Festival

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 Barts 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 Writer's Association, Guelph, Canada

PUBLICATIONS

H-Index (2014) = 88 (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 Neurológicos da Síndrome de Capgras e de Outros Distúrbios de Identificação Correlatos. *Revista ABP-APAL (Associação Brasileira de Psiquiatria-Associação 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 (Berl)*, 107, Number 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. *Proc. Nat. Acad. USA*. 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(pte 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.
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