

TIMOTHY SHALLICE - CURRICULUM VITAE

EDUCATION

- 1957 Baylis Major Scholar in Mathematics, St. John College, Cambridge.
- 1961 Mathematics Tripos Pt II (*and BA*), Cambridge University
- 1962 Natural Sciences Tripos Pt II (Psychology), Cambridge University
- 1965 Ph.D. London University.

POSTS HELD

- 1964-1965 Assistant Lecturer, Psychology Department, Manchester University.
- 1965-1966 Science Research Council Junior Research Fellow, University College London.
- 1966-1972 Lecturer, Psychology Department, University College London.
- 1972-1977 Senior Research Fellow in Neuropsychology, Institute of Neurology, London.
- 1977-1978 Research Psychologist (Principal Grade), National Hospital for Nervous Diseases, London.
- 1978-1986 Scientist (Senior Grade) Medical Research Council, Applied Psychology Unit, Cambridge.
- 1986-1990 Scientist (Special Appointment Grade) Medical Research Council, Applied Psychology Unit, Cambridge.
- 1990-2005 Professor, Psychology Department, University College London.
- 1994-2010 Professor, Scuola Internazionale Superiore di Studi Avanzati, Trieste.
- 1996-2004 Director, Institute of Cognitive Neuroscience, University College London.
- 2011-2012 Senior Professor, Scuola Internazionale Superiore di Studi Avanzati, Trieste.

ACTUAL POSITION

Honorary Attached Research Worker, National Hospital for Neurology and Neurosurgery, London.
Honorary Researcher, Institute of Cognitive Neuroscience, University College London UK

AWARDS AND HONOURS

- 1992 President's Award (British Psychological Society).
- 1992 Awarded Doctor Honoris Causa, Universite Libre de Bruxelles.
- 1996 Elected Fellow of the Royal Society.
- 1996 Elected Fellow of the Academia Europaea.
- 1998 Elected Fellow of the Academy of Medical Sciences.
- 1998 Awarded Honorary Doctorate of Science, London Guildhall University.
- 2000 Awarded Aizenberg Prize by the Rotman Research Institute, Toronto.
- 2000 Initial American Psychological Society International Fellow.
- 2004 Elected Honorary Member, Experimental Psychology Society.
- 2004 Association Lecturer, 21st Attention and Performance Association Conference.
- 2005 Awarded Honorary Doctorate of Science, Trinity College Dublin.
- 2010 Elected Fellow of University College London.
- 2011 39th Annual Sir Frederick Bartlett Lecturer, Experimental Psychology Society.
- 2011 6th A.R. Jonckheere Memorial Lecturer, University College London.
- 2013 Elected Fellow of the British Academy.
- 2013 Awarded the Mind and Brain Prize of the University of Torino.
- 2013 Awarded a British Academy medal for the book *The Organisation of Mind* (together with Dr Richard Cooper).

UNDERGRADUATE AND POSTGRADUATE TEACHING

- 1964-65 Advances in Experimental Psychology (U. Manchester) 8 hours
- 1964-65 Undergraduate Seminar in Psychology (U. Manchester) 1 hour weekly
- 1967-72 Memory (University College London) 12 hours
- 1966-72 Undergraduate Seminar in Psychology (University College London) 1 hour weekly
- 1990 Introduction to Neuropsychology (U. Toronto) 36 hours

1990-95 Research Methods (University College London) 12 hours
1990-95 MSc Seminar in Research Methods (University College London) 2 hours weekly
2008-2013 Brain-based Approaches to Cognition (SISSA) 20 hours

POSTGRADUATE SUPERVISION AND EXAMENING

Students obtaining PhDs: D. Mitchell, E. Saraga, R. Stevenson, E Bunn, S. Cinan, A. Jack, A. Worthington, S. Gilbert, M. Turner, J. Machtynger (London), P. Gipson, J. Ellis (Cambridge), P. Laurogrotto, F. Borgo, S. Zanini, C. Rosazza, C. Reverberi, G. Marzocchi, A. Vallesi, C. Crescentini, F. Campanella, T. Buiatti, S. Seyed-Allaei, S. Kouhou (SISSA), S. Dab (U. Libre Bruxelles).

Examiner PhDs: Birmingham (2), Bochum, Brussels (2), Cambridge (4), Dundee, Edinburgh (2), London (11), Lyon, Oxford (4), Reading (2), SISSA (13), Trieste (1).

Assessor D.Sc: Louvain.

Assessor Habilitation: Bielefeld.

VISITING POSITIONS

Honorary Attached Research Worker, National Hospital for Neurology and Neurosurgery, London. 1978 – present.

Visiting Professor, University of Padua, 1984.

Visiting Professor, University of Toronto. 1990.

Visiting Scientist, Rotman Research Unit, Toronto, 1993 – present.

MEMBERSHIP OF RESEARCH-RELATED BOARDS/COMMITTEES

Member, Committee, European Workshop on Cognitive Neuropsychology, 1985 - 2006.

Member, Neurosciences Board, Medical Research Council, 1991 - 1995.

Member, Joint Research Councils Cognitive Science/Human Computer Interaction Committee, 1991 - 1995.

Deputy Chair, Neurosciences Board, Medical Research Council, 1994 - 1995.

Chair, British Neuropsychological Society, 1994-1996.

Member, Le Conseil Scientifique de la Fondation Fyssen, 1995 - 2003.

Member, Medical Research Council Advisory Board, 1997 – 1999.

Member, Fellowship Committee 8, Royal Society, 1997 – 2000.

Member, Cross-Board Group, Medical Research Council, 1998 – 1999.

Member, Max Planck Gesellschaft Committee on Perspectives in Neurobiological Research with Special Emphasis on Imaging Procedures, 2000.

Member, University Research Fellowship Panel B (ii), Royal Society, 2000 - 2001.

Member, Conference Grants Committee, Royal Society, 2000 - 2001.

Chair, Neurosciences Panel, Gatsby Charitable Foundation, 2003 – 2007.

Member, Fellowship Committee 10, Royal Society, 2003 – 2006.

Member, Bundes Ministerium Bildung Forschung Review Board "Research Collaborations on Cognitive Performance and Relevant Disorders in Humans", 2006 - 2007.

Member, Advisory Committee, Cognitive Sciences Section, Ecole Normale Supérieure, Paris, 2008 - present.

Member, Evaluation Committee on Program on Neurological and Psychiatric Diseases, French National Agency for Research (ANR), Paris, 2008.

Board Member, Federation of European Neuropsychological Societies, 2008 – present.

Member, Advisory Committee, Basque Center on Cognition, Brain and Language, San Sebastian, 2009 – present.

Member, Scientific Committee of the Graduate School (Scuola di Dottorato) of "Science Engineering Medicine" of the University of Verona, 2009 – present.

Member, Scientific Committee of the Friuli Magnetic Resonance Scanner, 2009 – 2011.

Member, Glushko Prize Committee, Cognitive Science Society, 2011 - present.

Member, Cognitive Science Call Committee, Vienna Science and Technology Fund, 2011.

Member, Humanities and Social Sciences Evaluation Committee, Fundação para a Ciência e a Tecnologia, Lisbon, 2013.

Member AERES Evaluation Committee, Laboratory of Stanislas Dehaene, Neurospin, 2013.

INTERNATIONAL CONFERENCES AND WORKSHOPS FOR WHICH A SPECIFIC INVITATION TO PARTICIPATE WAS RECEIVED

Attention and Performance V, Stockholm, Sweden, 1973 (Invited Speaker).

Attention and Performance VI, Senanque, France, 1976 (Invited Speaker).

500th Anniversary Memory Conference, Uppsala, Sweden, 1977 (Invited Speaker).

Workshop on Deep Dyslexia, Cambridge, UK, 1978 (Invited Participant).

Conference on Neurolinguistics and Cognition, San Diego, USA, 1979 (Invited Speaker).

Symposium on Consciousness in Contemporary Psychology, Dalhousie, Canada, 1979 (Invited Speaker).

Symposia on Methodology of Case Analysis and on Some Acquired Dyslexias, International Neuropsychological Society 2nd European Meeting, Holland, 1979 (Invited Speaker).

European Psycholinguistic Study Meeting on Information-Processing Approaches to the Aphasias, Paris, 1980 (Invited Speaker).

Royal Society Meeting on the Neuropsychology of Cognitive Function, London, 1981 (Invited Speaker).

Workshop on Surface Dyslexia, Oxford, 1982 (Invited Participant).

Workshop on Cognitive Neuropsychology of Language, Venice, 1983 (Invited Participant).

2nd European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1984 (Invited Speaker).

Workshop on Concept of Consciousness in Contemporary Science, Como, Italy 1985 (Invited Participant).

Workshop on Connectionist Symbol Processing, Baltimore, USA, 1985 (Invited Participant).

1st American Conference on Cognitive Neuropsychology, Baltimore, USA, 1986 (Invited Speaker).

4th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1986 (Invited Speaker).

Symposium on Pure Alexia International Neuropsychological Society 9th European Conference, Holland, 1986 (Invited Speaker).

College de France Lecture Series on Neuropsychology, Paris, 1986 (Invited Speaker).

Annual Italian Psychology Society Conference, San Pellegrino, Italy, 1986 (Invited Speaker).

Third European Conference on Personality, Gdansk, Poland, 1986 (Invited Speaker).

Fourth International Conference on Event Perception and Action, Trieste, Italy, 1987 (Invited Speaker).

Workshop on Cognitive Neuropsychology, Venice, Italy, 1988 (Invited Participant).

Workshop on Disorders of Lexical Semantics, Montreal, Canada, 1988 (Invited Participant).

Workshop on Connectionism and Language, Rome, Italy, 1988 (Invited Participant).

Conference on Physics, Mathematics and Cognitive Neuroscience, Paris, 1989 (Invited Speaker).

Workshop on Representation and Background in Action, Florence, 1989 (Invited Speaker).

Workshop on Categorization of Biologically Salient Signals, Trieste, Italy 1989 (Invited Participant).

Conference on Frontal Lobe Function and Injury, Galveston, Texas. 1990. (Invited Speaker).

Conference on Stroke: Neuropathological Mechanisms, Neuropsychological Disorders and Rehabilitation, Aachen, Germany, 1991. (Invited Speaker).

Conference on Frontal Lobe Function, Toronto, Canada, 1991 (Invited Speaker).

Conference on The Neural Basis of Higher Vision, Pittsburgh, USA, 1991 (Invited Participant).

Conference on Analytical Approaches to Human Cognition, Brussels, 1991 (Invited Speaker.)

Conference on Attention: Selection, Awareness and Control, Oxford, 1991 (Invited Speaker.)

Workshop on Methodological Issues in Cognitive Science, Santa Fe, 1992 (Invited Participant).

10th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1992 (Invited Speaker).

Attention and Performance XV, Erice, Sicily, 1992 (Invited Speaker).

Workshop on the Interface between the Biological and the Cognitive, Trieste, Italy, 1992 (Invited Speaker).

11th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1993 (Invited Speaker).

2nd European Meeting on Philosophy and Psychology, Sheffield, 1993 (Invited Participant).

Workshop on Language and Space, Tucson, Arizona, 1994 (Invited Speaker).

3rd Lille Neurosciences Workshop, Lille, France, 1994 (Invited Speaker).

Workshop on Towards a Theoretical Brain. Fd. des Treilles, France, 1995 (Invited Participant).

Conference on Leonardo Bianchi and the Functions of the Frontal Lobes, Naples, Italy, 1995 (Invited Speaker).

European Neuroscience Association, Amsterdam, Holland, 1995 (Invited Speaker).

Second International Conference on Memory, Padova, Italy, 1996 (Invited Speaker).

26th International Congress of Psychology, Montreal, Canada, 1996. (Invited Speaker).

15th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1997 (Invited Speaker).

3rd International Conference on Functional Mapping of the Human Brain, Copenhagen, Denmark, 1997 (Invited Speaker).

Aphasia Rehabilitation Workshop, Milan, Italy, 1997 (Invited Participant).

Conference on Cognitive Neuroscience and Memory, Stockholm, Sweden, 1997 (Invited Speaker).

Dutch Psychonomic Society, Egmond-aan-Zee, Holland, 1997 (Invited Speaker).

Attention and Performance XVIII, Windsor, UK, 1998 (Invited Participant).

Workshop on Error Processing and Adaptive Responding, Amsterdam, Holland, 1998 (Invited Speaker).

Workshop on Executive Control and Frontal Lobes: Current Issues, Darmenhurst, Germany, 1998 (Invited Speaker).

Five Colleges Conference on Neuroscience and Philosophy, Claremont, California, USA, 1999 (Invited Speaker).

Fyssen Foundation Symposium on Evolution and Culture, Saint Germain en Laye, France, 1999 (Invited Speaker).

18th European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2000 (Invited Speaker).

Perspectives on Human Memory and Cognitive Aging: Meeting in Honour of Fergus I M Craik, Toronto, Canada, 2000 (Invited Speaker).

10th Annual Rotman Research Institute Conference: The Frontal Lobes, Toronto, Canada, 2000 (Invited Speaker).

Architectures of the mind, Architectures of the brain. Conference. Vatican City, 2000 (Invited Speaker).

International Meeting on Language, Brain and Cognitive Development, Paris, 2001 (Invited Speaker).

British Psychological Conference, Glasgow, 2001 (Invited Speaker).

Psychoanalysis as an empirical interdisciplinary science. International Symposium of the Austrian Academy of Arts and Sciences, Vienna 2002 (Invited Speaker).

Conference on Cognitive Neuroscience of Action. Kloster Irsee, Bavaria, 2002. (Invited Speaker).

Convergence and divergence between lesion studies and functional neuroimaging of cognition, Bonn, 2003 (Invited Speaker).

Laws and models in science. Third International Conference of the Network on Historical and Contemporary Perspectives of Philosophy of Science in Europe, London, 2003 (Invited Speaker).

Summer Institute in Cognitive Neuroscience, Squaw Creek, California, 2003 (Invited Speaker).

Conference on Volition. Kloster Irsee, Bavaria, 2003 (Invited Speaker).

28th International Congress of Psychology, Beijing, China, 2004 (Keynote Speaker).

Festschrift for John Marshall, Oxford, 2004 (Invited Speaker).

Symposium on Free Will vs. Determinism, Euroscience Open Forum, Munich, 2006 (Invited Speaker).

Conference on mathematical aspects of studying the brain. Accademia dei Lincei, Rome, 2006 (Invited Speaker).

First Conference of the Federation of European Neuropsychological Societies, Edinburgh, 2008 (Keynote Speaker).

Societe de Neuropsychologie de la Langue Francaise, Amiens, 2008 (Keynote Speaker).

29th International Congress of Psychology, Berlin, 2008 (Invited Speaker).

Meeting on the Tower of Hanoi Puzzle, Paris, 2009 (Invited Speaker).

Workshop on 'Conflicts as Signals' Berlin, 2009 (Invited Speaker).

30th Anniversary Conference of the Fondation Fyssen, Paris, 2009 (Invited Speaker).

The Human Frontal Lobes and the Mind, Toronto, 2009 (Invited Speaker).

SINAPSA Conference 2009, Ljubljana, 2009 (Invited Speaker).

20th Rotman Research Institute Conference: Frontal Lobes, Toronto, Canada, 2010 (Invited Speaker).

Cerebral Functions and Surgery Today and Tomorrow, Udine, 2011 (Invited Speaker).

Seventh International Workshop on Language Production, New York, 2012 (Invited Speaker).

Workshop on the Role of Abstraction and Hierarchical Structures in Cognitive Systems, Munich, 2012 (Invited Speaker).

Expert Workshop on Pure Alexia, Copenhagen, 2013. (Invited Speaker).

Workshop on Cognitive Ontology, Manchester, 2013 (Invited Speaker).

32nd European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2014 (Keynote Speaker).

Concepts Actions Objects Workshop, Rovereto, Italy, 2014 (Invited Speaker).

Meanings of Mind Workshop, London, 2014 (Invited Participant)

Federation of European Neuropsychological Societies Summer School, Berlin, 2014 (Invited Speaker)

Colloquia and Talks given in many universities/colleges/hospitals/research institutes in Austria (U. Salzburg), Belgium (U. Libre de Bruxelles; U. Louvain), Britain (U. Aberdeen, Birmingham, Bristol, Brunel, Cambridge, Cambridge (Cognition & Brain Sciences Unit), Cardiff, Dundee, Durham, Edinburgh, Exeter, Glasgow, Hertfordshire, Keele, Lancaster, Leeds, Liverpool, London (Birkbeck), London (Imperial College), London (Inst of Psychiatry), London (London School of Economics), London (University College London), Manchester, Middlesex, Newcastle, Nottingham, Oxford, Reading, St Andrews, Sheffield, Southampton, Stirling, Sussex, Wales (Bangor), Wales (Cardiff), Warwick), Canada (U. McGill, U. Toronto, Toronto (Rotman Research Unit), U. Waterloo), China (Beijing), France (Caen, Lyon, Paris (College de France, Hop. Salpetriere, Maison de Sciences de l'Homme)), Germany (Aachen, Dusseldorf, Humboldt, Max Planck Leipzig), Iran (Tehran), Italy (U. Milano (Bicocca), Padova, SISSA, Trento, Trieste, Udine, Verona) and the USA (Dartmouth, Harvard, Johns Hopkins, Temple, Tufts, U. California San Diego).

RESEARCH GRANTS SINCE 1990

1. Formalisation of SOAR and other models of cognition using executable specifications (Shallice (PI) , Greer & Fox). JCI (UK) (1990-93), £122,000.
2. The role of frontal lobe structures in memory retrieval. MRC (UK) (1990-93), £66,000.
3. An executable specification language for cognitive theorising: user modelling and hybrid models (Shallice (PI) & Fox). JCI (UK) (1992-95), £183,000.
4. Representation and control of serial order in linguistic output systems. (Houghton & Shallice). JCI (UK) (1992-95), £114,000.
5. Fractionation of supervisory deficits following frontal lobe damage (Shallice (PI) & Burgess). Wellcome Trust (UK) (1993-96), £200,000.
6. The role of egocentric and allocentric information in spatial memory. (Shallice (PI), Incisa & Wise). MRC (UK) (1994-97), £195,000.
7. Acquired and developmental disorders of spelling. (Shallice (PI) & Houghton). McDonnell Foundation (USA) (1995-98), \$105,000.
8. Frontal lobe functions: anterior attentional processes (Stuss, Shallice, Alexander & Picton) Medical Research Council of Canada (1995-1998) CDN \$234,414.

9. Frontal lobe functions: anterior attentional processes (Stuss, Shallice & Alexander). Ontario Mental Health Foundation. (1995-1998) CDN \$64,800.
10. A developmental environment for computational modelling in cognitive science and cognitive neuroscience. (Cooper, Fox & Shallice). EPSRC (UK) (1996-99), £208,000.
11. Organisation and breakdown of routine action skills. (Shallice (PI), Cooper & Schwartz). Subcontract of grant to Moss Rehabilitation Institute, USA. National Institutes of Health, USA (1997-2000), \$249,000.
12. Functional imaging of episodic memory. (Shallice (PI) & Dolan). Wellcome Trust (UK) (1997-2000), £101,000.
13. The fractionation of executive processes. Wellcome Trust (UK) (1998-2001), £107,436.
14. Frontal lobes: Fractionation, localization and rehabilitation of attentional processes (Stuss, Shallice, Alexander, Robertson, Craik & Murphy) Medical Research Council of Canada (1998-2003) CDN \$579,150.
15. Analysis of cognitive impairment and the imaging of cognition. (Shallice (PI), Frith, Driver, O'Keefe, Atkinson, Rugg, Blair & Burgess). MRC (UK) (2000-2006), £711,364.
16. Reconciling imaging and neuropsychological studies of the control of memory processes. (Shallice (PI), Dolan & Cipolotti) Wellcome Trust (UK) (2003-2006), £250,000
17. Neuropsichologia e neuroimmagine funzionale delle funzioni motori e spaziale del parieto-frontale (Caminiti, Fogassi, Lupino & Shallice) PRIN (2005-2006) 42,300 € (TS part).
18. Studio neuropsicologico della rappresentazione e della pianificazione delle azioni nello spazio e nel tempo (Caminiti, Fogassi, Lupino & Shallice) PRIN (2007-2008) 48,511 € (TS part).
19. Unity versus diversity of function within prefrontal cortex. (Cipolotti, Shallice Duncan & Turner) Wellcome Grant (UK) (2010-2013) £ 263,467.
20. Levels of cortical control in the planning of pre-programmed and non-preprogrammed motor acts (Caminiti, Fogassi, Lupino & Shallice) PRIN (2010-2011) 26,936 euro (TS part).

SPECIFIC ORGANISATIONAL ROLE AT INTERNATIONAL CONFERENCES

Organiser, Symposium on Agraphia, 3rd European Conference; International Neuropsychological Society, Chianciano, Italy, 1980.

Chair, Programme Committee, 5th European Conference of the International Neuropsychological Society, Deauville, France, 1982.

Organiser, Plenary Session on Methodology, 3rd European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1985.

Member, Advisory Council, Attention and Performance, 1985 - 1989.

Small Groups Organiser, European Workshops on Cognitive Neuropsychology, Bressanone, Italy, 1986 - 1988.

Joint Organiser, Workshop on Impairments of Short-term Memory, Como, Italy, 1987.

Organiser, Plenary Session on Connectionist Models and Neuropsychological Phenomena, 6th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1988.

Joint Organiser, Workshop on Disorders of Semantic Memory, Orta, Italy, 1989.

Member, Committee, Trieste Encounters in Cognitive Science, 1990 – 1998.

Joint Organiser, Plenary Session on Frontal Memory Disorders, 9th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, 1991.

Chair, Committee of Trieste Encounters in Cognitive Science, 1993.

Joint Organiser, Euroconference on Theoretical Issues in Cognitive Neuropsychology, Trieste, Italy, 1993.

Member, Organising Committee, Third Sperlonga Symposium on Cognitive Models of Speech Processing, 1995.

Joint Organiser, Euroconference on Disorders of Semantic Memory, Trieste, Italy, 1996.

Joint Organiser, Plenary Session on Disorders of Spelling, 18th European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2000.

Joint Organiser, Plenary Session on Disorders of Affect, 20th European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2002.

Joint Director, Modelling Prefrontal Functions: From Neuropsychology to Theoretical Neuroscience, International Centre for Theoretical Physics, Trieste, Italy, 2003.

Joint Organiser, Plenary Session on Cognitive Neuroscience of Higher Mental Functions: The Wider Context, 24th European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2006.

Joint Organiser, Plenary Session on Cognitive Neuroscience of Semantics, 27th European Conference on Cognitive Neuropsychology, Bressanone, Italy, 2009.

Joint Organiser, Expert Workshop on Pure Alexia. Copenhagen, 2013.

EDITORIAL BOARDS

Quarterly Journal of Experimental Psychology (1972 - 1975), Cognition (1976 - 2006), Journal of Neurology, Neurosurgery and Psychiatry (1979 - 1983), Brain and Cognition (1982 - 1983), Cognitive Neuropsychology (1982 - present), Cortex (1986 - present), Consciousness and Cognition (1992 - present), Neurocase (1994 - present).

FACULTY, DEPARTMENTAL AND DOCTORAL STUDENT RESPONSIBILITIES

Postgraduate Tutor, APU, 1981 - 1985.

Director of Graduate Studies, Psychology Department, UCL, 1990 - 1995.

Research Co-ordinator, Psychology Department, UCL, 1994 - 1996.

Co-ordinator, Cognitive Neuroscience Sector, SISSA, 1995 - 2000, 2007 - 2010.

Honorary Principal, Wellcome Department of Cognitive Neurology, Institute of Neurology, UCL, 1996- 2004.

Co-ordinator, European Diploma in Cognitive Science, SISSA, 1996 - 1997.

Member, Executive Committee, Institute of Neurology, UCL, 1998 - 2004.