**Curriculum vitae - Professor Michael Hornberger**

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**Work History**

11/18 – onwards Associate Dean of Innovation – Faculty of Medicine and Health Sciences, University of East Anglia, UK

07/18 – 11/18 Research Theme Lead – Lifecourse & Aging, Norwich Medical School, University of East Anglia, UK

10/16 – 07/18 Head of Department of Medicine, Norwich Medical School, University of East Anglia, UK

11/15 - onwards Chair of Applied Dementia Research, Norwich Medical School, University of East Anglia, UK

11/15 – 07/19 Research Programme Director of Dementia and Complexity in Later Life, NSFT

02/14 - 11/15 Senior Research Associate, Department of Clinical Neurosciences, University of Cambridge, UK

01/11 – 02/14 Australian Research Council (ARC) Research Fellow, NeuRA, Sydney, Australia

07/11 – 02/14 Conjoint senior lecturer, Faculty of Medicine, University of New South Wales, Sydney, Australia

01/09 – 07/11 Conjoint lecturer, Faculty of Medicine, University of New South Wales, Sydney, Australia

01/10 – 01/11 Senior Research Officer, NeuRA, Sydney, Australia

11/07 – 01/10 Research Officer, NeuRA, Sydney, Australia

07/07 – 11/07 Post-doctoral Research Fellow, Department of Clinical Neurosciences, University of Cambridge, UK

11/06 – 07/07 Research Fellow Institute of Child Health, University College London, UK

04/03 – 11/06 Research Assistant, MRC-Cognition & Brain Sciences Unit, Cambridge, UK

02/02 – 04/03 Research Assistant, Institute of Cognitive Neuroscience, University College London, UK

**Teaching**

11/15 – onwards Functional Neuroanatomy – Norwich Medical School, MBBS course, University of East Anglia

11/15 – onwards Cognitive Assessment in the Elderly – Norwich Medical School, Clinical Psychology course, University of East Anglia

11/15 – onwards Neuroradiology and Scan interpretation – Norwich Medical School, Clinical Psychology course, University of East Anglia

10/14 – 11/15 Part II Project Supervisor – Psychological and Behavioural Science Tripos, University of Cambridge, UK

07/11 – 02/14 Conjoint Senior Lecturer, Faculty of Medicine, University of New South Wales, Sydney, Australia

01/09 – 07/11 Conjoint Lecturer, Faculty of Medicine, University of New South Wales, Sydney, Australia

02/07 – 05/07 Associate Lecturer for Undergraduate Psychology Course. Goldsmith College, University of London, UK

11/05 – 11/06 Tutor for Medical and Veterinary Sciences - Neurobiology Section; Teaching and supervision of Cambridge University undergraduate students. University of Cambridge, UK

02/05 – 11/06 Associate Lecturer and Tutor for Course SD226 (Biological Psychology); Teaching and supervision of Open University graduate students. Open University, Milton Keynes, UK

**Education**

2002 – 2006 Ph.D. in Psychology

Institute of Cognitive Neuroscience, University College London, UK

1998 – 2001 M.Sc. in Human Biology Distinction: “Summa cum laude”

Department of Cognitive Neurology, University Vienna, Austria

1996 – 1998 B.A. Honours Degree in Biology

Department of Biology, University of Osnabrück, Germany

**Grants and Fellowships**

2020-2022 Department of Transport (PI) - Driver Effect of Cognitive Impairment on Spatial Orientation and Navigation (DECISION). £98,589

2019-2024 NIHR; Hornberger (co-PI) - ARC Ageing and Multi-morbidity theme. £234,006.00

2019-2020 NNUH Research Capability Funding; Hornberger and Morris - Impact of HRT use and APOE genotype on cognitive performance in menopause – implications for dementia risk reduction treatments. £35,757

2019-2022 NIHR RfPB; Kishita et al. (Co-CI) – Online Acceptance and Commitment Therapy for family carers of people with dementia: A feasibility study of a new mode of delivery (iACT4CARERS). £250,000

2018-2023 Wellcome Trust; Penny et al. (Co-CI) - University of East Anglia Brain Imaging Centre – Multi-user equipment grant. £1,000,000

2018-2019 Alzheimer’s Research UK: Hornberger (PI) - Getting lost – Spatial disorientation in Mild Cognitive Impairment and its diagnostic implications. £59,074

2018-2019 Medical Research Council: Murray et al. (Co-CI) - Early-life origins of brain resilience to mental illness and cognitive impairment across the life-course. £192,240

2018-2020 Alzheimer’s Research UK: Minihane et al. (Co-CI) - Diet, physical activity and dementia risk in UK adults: Epidemiology and MedEx feasibility study. £757,733

2018 -2019 Burdett Trust for Nursing: West, Teague, Sayer, Hornberger - Strengthening Nursing Leadership grant. £37,517.

2017-2019           Wellcome Trust: Lazar et al. (Co-CI) - Early sleep and circadian markers of Alzheimer’s disease: The impact of APOE-ε4 on circadian rhythm and sleep-wake homeostasis in humans. £99,973

2017 - 2019 Cranberry Institute: Vauzour, Hornberger - The impact of Cranberries on the gut microbiota and cognition in “at-genetic-risk” Alzheimer’s disease participants: a double blind, randomised placebo controlled, parallel group study. UK£183,035.

2016 – 2018 Alzheimer Research UK and Deutsche Telekom partnership grant: Spiers, Hornberger –

Understanding Human Navigation using Mobile Gaming, Big Data and Machine Learning.

UK£146,322

2016 – 2019 Alzheimer Research UK (Co-CI) – The impact of acute systemic inflammation upon cerebrospinal fluid and blood biomarkers of brain inflammation and injury in dementia: a study in acute hip fracture and memory clinic patients. UK£277,786

2016 – 2019 Motor Neurone Disease Association health care research grant: Mioshi, Hornberger, Shepstone, Dick – Practical management of cognitive and neuropsychiatric symptoms in MDN - development of the MiNDToolkit. UK£199,957.

2016 Alzheimer’s Research UK Cambridge Network Pump Priming Grant: Hornberger and Bertoux. UK£4,999.

2016 Oxford ARUK Pilot Project Award: Ahmed and Hornberger. UK£4,250 (from 1st April to 31st August 2016)

2016 Norfolk and Waveney CCGs’ (Norfolk and Suffolk Primary and Community Care Research Office for Research Capability Funding): Hornberger and Mioshi - Meeting the challenges of primary and community care. UK£12,500.

2015 – 2020 Medical Research Council: Rossor et al. (Co-PI) - The UK GENetic Frontotemporal dementia Initiative (UK GENFI). UK£3,233,964.

2015 Wellcome Trust: Scott-Slade, Hornberger, Hyde - Find The King Game. UK£9,814

2015 ARC Centre of Excellence in Cognition and Disorders: Piguet, Hornberger, Kumfor, Palermo, Rhodes - I can’t see it in your eyes: Unpacking facial emotion recognition disturbance in frontotemporal dementia. AUS$ 40,000.

2014 – 2015 Alzheimer Research UK pilot project grant: Hornberger, Mioshi, Rowe - Double-blind randomised crossover placebo-controlled pilot trial with intra-nasal Oxytocin to increase social cognitive function and reduce carer burden in frontotemporal dementia. UK£29,827.

2013 – 2014 Alzheimer Research UK pilot project grant: Hornberger, Rowe - Cortico-striatal contributions to symptomology in dementia: new targets for therapy. UK£49,920.

2014 UNSW Goldstar: Piguet, Hornberger, Rushby - Determining the contributions of neurophysiological response abnormality and insula pathology to emotion disturbance in frontotemporal dementia. AU$40,000.

2013 – 2015 Newton Trust: Rowe, Hornberger - Cortico-striatal contributions to behavioural disorder in dementia: new targets for therapy. UK£ 66,997.

2012 – 2013 Motor Neurone Disease Foundation grant: Burrell, Mioshi, Hornberger, Ballard – Language dysfunction in MND. AUS$97,009.

2011 – 2012 Motor Neurone Disease Foundation grant: Mioshi, Hornberger - Cognitive markers of MND clinical phenotypes. AUS$88,000.

2011 – 2012 UNSW Major Equipment grant: Halliday, Sheperd, Piguet, Hornberger, Kim, Hodges, Double, Leshchynska, Sytynk, Fath, Knwok, Dobson-Stone, Huang, Cooper. AUS$122,543.

2010 – 2015 ARC Research Fellowship: Hornberger

2010 – 2015 ARC Discovery Project DP110104202: Hornberger, Hodges, Lewis – Make up your mind! – Dissociating the roles of orbitofrontal cortex and striatum in human decision making. AUS$794,339.

2010 – 2011 Brain Foundation grant: Hornberger, Mioshi, Lillo - A multi-disciplinary approach towards behavioural dysfunction in motor neurone disease (MND). AUS$30,000.

2010 – 2013 ARC Discovery project DP1093279: Piguet, Hodges & Hornberger – Prefrontal and medial temporal lobe cortices interactions to episodic long-term memory. AUS$427,402.

2010 – 2011 UNSW Faculty of Medicine – Early Career Research Grant: Hornberger. Dissecting behavioural disturbances associated with orbitofrontal cortex dysfunction in frontotemporal dementia and bipolar disorder. AUS$20,000.

**Journal Publications**

**2020**

1. Lowry E, Puthusseryppady V, Coughlan G, Jeffs S, Hornberger M. Path Integration Changes as a Cognitive Marker for Vascular Cognitive Impairment?-A Pilot Study. **Front Hum Neurosci**. 2020 Apr 21;14:131.
2. Coughlan G, Zhukovsky P, Puthusseryppady V, Gillings R, Minihane AM, Cameron D, Hornberger M. Functional connectivity between the entorhinal and posterior cingulate cortices underpins navigation discrepancies in at-risk Alzheimer's disease. **Neurobiol Aging.** 2020 Jun;90:110-118.
3. Ducharme S, Dols A, Laforce R, Devenney E, Kumfor F, van den Stock J, Dallaire-Théroux C, Seelaar H, Gossink F, Vijverberg E, Huey E, Vandenbulcke M, Masellis M, Trieu C, Onyike C, Caramelli P, de Souza LC, Santillo A, Waldö ML, Landin-Romero R, Piguet O, Kelso W, Eratne D, Velakoulis D, Ikeda M, Perry D, Pressman P, Boeve B, Vandenberghe R, Mendez M, Azuar C, Levy R, Le Ber I, Baez S, Lerner A, Ellayosyula R, Pasquier F, Galimberti D, Scarpini E, van Swieten J, Hornberger M, Rosen H, Hodges J, Diehl-Schmid J, Pijnenburg Y. Recommendations to distinguish behavioural variant frontotemporal dementia from psychiatric disorders. **Brain**. 2020 Mar 4:awaa018
4. O'Connor CMC, Mioshi E, Kaizik C, Fisher A, Hornberger M, Piguet O. Positive behaviour support in frontotemporal dementia: A pilot study. **Neuropsychol Rehabil.** 2020 Jan 3:1-24.
5. Musa G, Slachevsky A, Muñoz-Neira C, Méndez-Orellana C, Villagra R, González-Billault C, Ibáñez A, Hornberger M, Lillo P. Alzheimer's Disease or Behavioral Variant Frontotemporal Dementia? Review of Key Points Toward an Accurate Clinical and Neuropsychological Diagnosis. **J Alzheimers Dis**. 2020;73(3):833-848.
6. Mariano LI, O'Callaghan C, Guimarães HC, Gambogi LB, da Silva TBL, Yassuda MS, Amaral JS, Caramelli P, Hornberger M, Teixeira AL, de Souza LC. Disinhibition in Frontotemporal Dementia and Alzheimer's Disease: A Neuropsychological and Behavioural Investigation. **J Int Neuropsychol Soc**. 2019;1–9.

**2019**

1. Pertesi S, Coughlan G, Puthusseryppady V, Morris E, Hornberger M. Menopause, cognition and dementia - A review [published online ahead of print, 2019 Nov 5]. **Post Reprod Health**. 2019;2053369119883485. doi:10.1177/2053369119883485
2. Emrich-Mills L, Puthusseryppady V, Hornberger M. Effectiveness of Interventions for Preventing People With Dementia Exiting or Getting. **Gerontologist.** 2019;gnz133. doi:10.1093/geront/gnz133
3. Bueno APA, Sato JR, Hornberger M. Eye tracking - The overlooked method to measure cognition in neurodegeneration? **Neuropsychologia**. 2019;133:107191.
4. Puthusseryppady P, Coughlan C, Patel M, Hornberger M. Geospatial Analysis of Environmental Risk Factors for Missing Dementia Patients. **J Alzheimers Dis**, 2019, 71 (3), 1005-1013
5. Shannon OM, Stephan BCM, Granic A, Lentjes M, Hayat S, Mulligan A, Brayne C, Khaw KT, Bundy R, Aldred S, Hornberger M, Paddick SM, Muniz-Tererra G, Minihane AM, Mathers JC, Siervo M. Mediterranean Diet Adherence and Cognitive Function in Older UK Adults: The European Prospective Investigation Into Cancer and Nutrition-Norfolk (EPIC-Norfolk) Study. **Am J Clin Nutr**, 2019, 110 (4), 938-948
6. Coughlan G, Coutrot A, Khondoker M, Minihane AM, Spiers H, Hornberger M. Toward personalized cognitive diagnostics of at-genetic-risk Alzheimer's disease. **Proc Natl Acad Sci** U S A. 2019 Apr 23. pii: 201901600. doi: 10.1073/pnas.1901600116.
7. Slachevsky A, Forno G, Barraza P, Mioshi E, Delgado C, Lillo P, Henriquez F, Bravo E, Farias M, Muñoz-Neira C, Ibañez A, Parra MA, Hornberger M. Mapping the neuroanatomy of functional decline in Alzheimer's disease from basic to advanced activities of daily living. **J Neurol.** 2019 Apr 4. doi: 10.1007/s00415-019-09260-w.
8. Coutrot A, Schmidt S, Coutrot L, Pittman J, Hong L, Wiener JM, Hölscher C, Dalton RC, Hornberger M, Spiers HJ. Virtual navigation tested on a mobile app is predictive of real-world wayfinding navigation performance. **PLoS One.** 2019 Mar 18;14(3):e0213272.
9. Bueno APA, Pinaya WHL, Rebello K, de Souza LC, Hornberger M, Sato JR. Regional Dynamics of the Resting Brain in Amyotrophic Lateral Sclerosis Using Fractional Amplitude of Low-Frequency Fluctuations and Regional Homogeneity Analyses. **Brain Connect.** 2019 Mar 20. doi: 10.1089/brain.2019.0663.

**2018**

1. Radakovic R, Puthusseryppady V, Flanagan E, Kiernan MC, Mioshi E, Hornberger M. Frontostriatal grey matter atrophy in amyotrophic lateral sclerosis A visual rating study. **Dement Neuropsychol.** 2018 Oct-Dec;12(4):388-393
2. Ritchie K, Carrière I, Howett D, Su L, Hornberger M, O'Brien JT, W Ritchie C, Chan D. Allocentric and Egocentric Spatial Processing in Middle-Aged Adults at High Risk of Late-Onset Alzheimer's Disease: The PREVENT Dementia Study. **J Alzheimers Dis.** 2018 Aug 4. doi: 10.3233/JAD-180432.
3. Coutrot A, Silva R, Manley E, de Cothi W, Sami S, Bohbot VD, Wiener JM, Hölscher C, Dalton RC, Hornberger M, Spiers HJ. Global Determinants of Navigation Ability. **Curr Biol.** 2018 Aug 7. pii: S0960-9822(18)30771-1
4. Ahmed S, Loane C, Bartels S, Zamboni G, Mackay C, Baker I, Husain M, Thompson S, Hornberger M, Butler C. Lateral parietal contributions to memory impairment in posterior cortical atrophy. **Neuroimage Clin**. 2018 Jul 5;20:252-259.
5. Coughlan G, Laczó J, Hort J, Minihane AM, Hornberger M. Spatial navigation deficits - overlooked cognitive marker for preclinical Alzheimer disease? **Nat Rev Neurol.** 2018 Aug;14(8):496-506
6. Lladó A, Tort-Merino A, Sánchez-Valle R, Falgàs N, Balasa M, Bosch B, Castellví M, Olives J, Antonell A, Hornberger M. The hippocampal longitudinal axis-relevance for underlying tau and TDP-43 pathology. **Neurobiol Aging**. 2018 Oct;70:1-9.
7. Flanagan E, Müller M, Hornberger M, Vauzour D. Impact of Flavonoids on Cellular and Molecular Mechanisms Underlying Age-Related Cognitive Decline and Neurodegeneration. **Curr Nutr Rep**. 2018 Jun;7(2):49-57.
8. Flanagan EC, Lagarde J, Hahn V, Guichart-Gomez E, Sarazin M, Hornberger M, Bertoux M. Executive and social-cognitive determinants of environmental dependency syndrome in behavioral frontotemporal dementia. **Neuropsychology**. 2018 May;32(4):377-384
9. Devenney E, Swinn T, Mioshi E, Hornberger M, Dawson KE, Mead S, Rowe JB, Hodges JR. The behavioural variant frontotemporal dementia phenocopy syndrome is a distinct entity - evidence from a longitudinal study. **BMC Neurol**. 2018 Apr 28;18(1):56.
10. Coughlan G, Flanagan E, Jeffs S, Bertoux M, Spiers H, Mioshi E, Hornberger M. Diagnostic relevance of spatial orientation for vascular dementia: A case study. **Dement Neuropsychol.** 2018 Jan-Mar;12(1):85-91.
11. Bertoux M, Flanagan EC, Hobbs M, Ruiz-Tagle A, Delgado C, Miranda M, Ibáñez A, Slachevsky A, Hornberger M. Structural Anatomical Investigation of Long-Term Memory Deficit in Behavioral Frontotemporal Dementia. **J Alzheimers Dis.** 2018;62(4):1887-1900
12. Kassubek J, Müller HP, Del Tredici K, Hornberger M, Schroeter ML, Müller K, Anderl-Straub S, Uttner I, Grossman M, Braak H, Hodges JR, Piguet O, Otto M, Ludolph AC. Longitudinal Diffusion Tensor Imaging Resembles Patterns of Pathology Progression in Behavioral Variant Frontotemporal Dementia (bvFTD). **Front Aging Neurosci**. 2018 Mar 6;10:47. doi: 10.3389/fnagi.2018.00047
13. Wong S, Irish M, Hornberger M. Behavioural-variant frontotemporal dementia: A unique window into the disrupted self: Reply to Genon & Salmon. **Cortex.** 2018 Jul;104:130-132. doi: 10.1016/j.cortex.2018.02.010.
14. Guo CC, Tan R, Hodges JR, Hu X, Sami S, Hornberger M. Reply: The Crus exhibits stronger functional connectivity with executive network nodes than with the default mode network. **Brain**. 2018 Apr 1;141(4):e25. doi: 10.1093/brain/awy041.
15. Wong S, Irish M, Savage G, Hodges JR, Piguet O, Hornberger M. Strategic value-directed learning and memory in Alzheimer's disease and behavioural-variant frontotemporal dementia. **J Neuropsychol**. 2018 Feb 12. doi: 10.1111/jnp.12152.
16. Bueno APA, Pinaya WHL, Moura LM, Bertoux M, Radakovic R, Kiernan MC, Teixeira AL, de Souza LC, Hornberger M, Sato JR. Structural and functional papez circuit integrity in amyotrophic lateral sclerosis. **Brain Imaging Behav**. 2018 Jan 27. doi: 10.1007/s11682-018-9825-0.
17. Slachevsky A, Barraza P, Hornberger M, Muñoz-Neira C, Flanagan E, Henríquez F, Bravo E, Farías M, Delgado C. Neuroanatomical Comparison of the "Word" and "Picture" Versions of the Free and Cued Selective Reminding Test in Alzheimer's Disease. **J Alzheimers Dis**. 2018;61(2):589-600.

**2017**

1. Wong S, Irish M, O'Callaghan C, Kumfor F, Savage G, Hodges JR, Piguet O, Hornberger M. Should I trust you? Learning and memory of social interactions in dementia. **Neuropsychologia**. 2017 Sep;104:157-167
2. Moustafa AA, Hassan M, Hewedi DH, Hewedi I, Garami JK, Al Ashwal H, Zaki N, Seo SY, Cutsuridis V, Angulo SL, Natesh JY, Herzallah MM, Frydecka D, Misiak B, Salama M, Mohamed W, El Haj M, Hornberger M. Genetic underpinnings in Alzheimer's disease - a review. **Rev Neurosc**i. 2017 doi: 10.1515/revneuro-2017-0036.
3. Tu S, Spiers HJ, Hodges JR, Piguet O, Hornberger M. Egocentric versus Allocentric Spatial Memory in Behavioral Variant Frontotemporal Dementia and Alzheimer's Disease. **J Alzheimers Dis**. 2017;59(3):883-892.
4. Gellersen HM, Guo CC, O'Callaghan C, Tan RH, Sami S, Hornberger M. Cerebellar atrophy in neurodegeneration-a meta-analysis. **J Neurol Neurosurg Psychiatry**. 2017 Sep;88(9):780-788.
5. Jaroudi W, Garami J, Garrido S, Hornberger M, Keri S, Moustafa AA. Factors underlying cognitive decline in old age and Alzheimer's disease: the role of the hippocampus. **Rev Neurosci**. 2017 Oct 26;28(7):705-714
6. Alladi S, Bak TH, Shailaja M, Gollahalli D, Rajan A, Surampudi B, Hornberger M, Duggirala V,

Chaudhuri JR, Kaul S. Bilingualism delays the onset of behavioral but not aphasic forms of frontotemporal dementia. **Neuropsychologia**. 2017 May;99:207-212.

**2016**

1. Ramanan S, de Souza LC, Moreau N, Sarazin M, Teixeira AL, Allen Z, Guimarães HC, Caramelli P, Dubois B, Hornberger M, Bertoux M. Determinants of theory of mind performance in Alzheimer's disease: A data-mining study. **Cortex** 88:8-18
2. [Devenney](http://www.sciencedirect.com/science/article/pii/S2213158216302352) EM, [Landin-Romero](http://www.sciencedirect.com/science/article/pii/S2213158216302352) R, [Irish](http://www.sciencedirect.com/science/article/pii/S2213158216302352) M, Hornberger M, [Mioshi](http://www.sciencedirect.com/science/article/pii/S2213158216302352) E, [Halliday](http://www.sciencedirect.com/science/article/pii/S2213158216302352) GM, [Kiernan](http://www.sciencedirect.com/science/article/pii/S2213158216302352) MC, [Hodges](http://www.sciencedirect.com/science/article/pii/S2213158216302352) JR. The neural correlates and clinical characteristics of psychosis in the frontotemporal dementia continuum and the C9orf72 expansion. **Neuroimage Clinical** 2016.11.028
3. O'Connor CM, Clemson L, Hornberger M, Leyton CE, Hodges JR, Piguet O, Mioshi E. Longitudinal change in everyday function and behavioral symptoms in frontotemporal dementia **Neurology Clinical Practice** (5):419-428.
4. Wong S, Irish M, Leshikar ED, Duarte A, Bertoux M, Savage G, Hodges JR, Piguet O, Hornberger M. The self-reference effect in dementia: Differential involvement of cortical midline structures in Alzheimer's disease and behavioural-variant frontotemporal dementia **Cortex** 10.1016
5. Bertoux M, Ramanan S, Slachevsky A, Wong S, Henriquez F, Musa G, Delgado C, Flanagan E, Bottlaender M, Sarazin M, Hornberger M, Dubois B. So Close Yet So Far: Executive Contribution to Memory Processing in Behavioral Variant Frontotemporal Dementia **Journal of Alzheimer’s Disease** 4;54(3):1005-1014
6. Flanagan EC, Wong S, Dutt A, Tu S, Bertoux M, Irish M, Piguet O, Rao S, Hodges JR, Ghosh A, Hornberger M. False Recognition in Behavioral Variant Frontotemporal Dementia and Alzheimer's Disease-Disinhibition or Amnesia? **Frontiers of Aging Neuroscience** 10.3389/fnagi.2016.00177
7. Ramanan S, Bertoux M, Flanagan E, Irish M, Piguet O, Hodges JR, Hornberger M. Longitudinal Executive Function and Episodic Memory Profiles in Behavioral-Variant Frontotemporal Dementia and Alzheimer's Disease **Journal of the International Neuropsychological Society** 1-10
8. Hornberger M, Kiernan MC. Emergence of an imaging biomarker for amyotrophic lateral sclerosis: is the end point near? **Journal of Neurology, Neurosurgery and Psychiatry** 87(6):569
9. [Halliday](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) GM, [Kiernan](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) MC, [Kril](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) JJ, [Mito](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) R, [Suzukake](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) MM, [Hasegawa](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) M, [McCann](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) H, [Bartley](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) L, [Dobson-Stone](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) C, [Kwok](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) JBJ, [Hornberger](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) M, [Hodges](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) JR, [Tan](http://www.sciencedirect.com/science/article/pii/S0022510X16302507) RH.:TDP-43 in the hypoglossal nucleus identifies amyotrophic lateral sclerosis in behavioral variant frontotemporal dementia **Journal of Neuroscience** 15;366:197-201
10. Wong S, Bertoux M, Savage G, Hodges J.R , Piguet O, Hornberger M. Comparison of prefrontal atrophy and episodic memory performance in dysexecutive Alzheimer’s disease and behavioural-variant frontotemporal dementia **Journal of Alzheimer’s Disease** 51(3):889-903.
11. Ahmed S, Baker I, Husain M, Thompson S, Kipps C, Hornberger M, Hodges JR, Butler CR. Memory Impairment at Initial Clinical Presentation in Posterior Cortical Atrophy **Journal of Alzheimer’s Disease** 23;52(4):1245-50
12. Irish M, Eyre N, Dermody N, O'Callaghan C, Hodges J, Hornberger M, Piguet O. Neural Substrates of Semantic Prospection – Evidence from the Dementias **Frontiers in Behavioural Neuroscience** 10:96.
13. Aggleton JP., Pralus A., Nelson A., Hornberger M. Thalamic pathology and memory loss in early Alzheimer’s disease: Moving the focus from the medial temporal lobe to Papez circuit. **Brain** 139(Pt 7):1877-90
14. Wang1 J, Redmond S.j, Bertoux M, Hodges J.R, Hornberger M. A Comparison of Magnetic Resonance Imaging and Neuropsychological Examination in the Diagnostic Distinction of Alzheimer’s Disease and Behavioral Variant Frontotemporal Dementia **Frontiers in Aging Neuroscience** 16;8:119
15. Burrell JR., Kamminga J., Leslie FV., Hsieh S., Caga J., Mioshi E., Hornberger M., Ballard KJ, Kiernan MC, Hodges JR. Syntactic Comprehension Deficits across the FTD-ALS Continuum **Neurobiology of Aging** 41, p11–18
16. Bae JS., Ferguson M., Tan R., Lam B., Menon P., Mioshi E., Simon N., Burrell J., Vucic S., Hodges J., Kiernan M., Hornberger M. Dissociation of Structural and Functional Integrities

of the Motor System in Amyotrophic Lateral Sclerosis and Behavioral-Variant Frontotemporal Dementia **Journal of Clinical Neurology** 12(2):209-17

1. Hornberger M., Kiernan MC. Emergence of an imaging biomarker for amyotrophic lateral sclerosis – Is the endpoint near? **JNNP** 87(6):569.
2. Tedder J., Miller L., Tu S., Hornberger M., Lah S. Into the future with little past: Exploring mental time travel in a patient with damage to the mammillary bodies/fornix **TCN** 30(2):351-66
3. Wong S., Bertoux M., Savage G., Hodges J.R., Piguet O., Hornberger M. Comparison of prefrontal atrophy and episodic memory performance in dysexecutive Alzheimer’s disease and behavioural-variant frontotemporal dementia **Journal of Alzheimer’s Disease** 51(3):889-903.
4. Guo CC., Tan R., Sami S., Hu X., Hodges JR., Hornberger M. Network-selective vulnerability of the human cerebellum to Alzheimer’s disease and frontotemporal dementia **Brain** 139(Pt 5):1527-38.
5. Ramanan S., Flanagan E., Leyton CE., Villemagne VL., Rowe CC., Hodges JR., Hornberger M. Non-verbal episodic memory - deficits in primary progressive aphasias are highly predictive of underlying amyloid pathology **Journal of Alzheimer’s Disease** 5;51(2):367-76
6. O’Callaghan C., Hornberger M., Balsters JH., Halliday GM., Lewis SJG., Shine JM. Cerebellar atrophy in Parkinson’s disease and its implication for network connectivity – the impact of local grey matter loss on large-scale cortical resting state patterns **Brain** 139(Pt 3):845-55.
7. Dalton MA., Hornberger M., Piguet O., Material Specific Lateralization of Medial Temporal Lobe Function: An fMRI Investigation **Human Brain Mapping** 37(3):933-41.
8. Irish M., Bunk S., Tu S., Kamminga J., Hodges JR., Hornberger M., Piguet O. Preservation of episodic memory in semantic dementia: the importance of regions beyond the medial temporal lobes Corresponding **Neuropsychologia** 29;81:50-60
9. O’Callaghan C., Bertoux M., Irish M., Shine JM., Wong S., Spiliopoulos L., Hodges JR., Hornberger M. Fair play: Social norm compliance failures in behavioural variant frontotemporal dementia **Brain** 139(Pt 1):204-16
10. Bertoux M., O’Callaghan C., Dubois B., Hornberger M. In two minds - executive functioning versus theory of mind in behavioural variant frontotemporal dementia **JNNP** 87(3):231-4.
11. Dermody N., Hornberger M., Piguet O., Hodges JR., Irish M. Prospective Memory Impairments in Alzheimer's Disease and Behavioral Variant Frontotemporal Dementia: Clinical and Neural Correlates **Journal of Alzheimer’s disease** 50(2):425-41

**2015**

1. Bertoux M, DeSouza LC, Sarazin M, Funkiewiez A, Dubois B, Hornberger M. How preserved is emotion recognition in Alzheimer’s disease compared to behavioural variant frontotemporal dementia? **Alzheimer’s Disease & Associated Disorders** 29(2):154-7
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4. Shine J., Muller A., O'Callaghan C., Hornberger M., Halliday G, Lewis S. Abnormal connectivity between the default mode and the visual system underlies the manifestation of visual hallucinations in Parkinson's disease: a task-based fMRI study **NPj Parkinson's Disease** 15003. doi:10.1038/npjparkd.2015.3
5. Bertoux, M., Cruz de Souza, L., O’Callaghan C., Grevef A., Sarazin A., Dubois B., Hornberger M. Social Cognition Deficits: The Key to Discriminate Behavioral Variant Frontotemporal Dementia from Alzheimer’s Disease Regardless of Amnesia? **Journal of Alzheimer’s Disease** 20;49(4):1065-74
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**2014**

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2. Tan R., Devenney E., Hodges JR., Kiernan MC., Halliday GM., Hornberger M. Cerebellar integrity in the Amyotrophic Lateral Sclerosis - Frontotemporal Dementia continuum. **PLoS ONE** 9(8):e105632
3. O’Callaghan C, Bertoux M, Hornberger M. (2014) The striatum: A critical nexus to understand cognitive and behavioural symptoms in neurodegeneration? **JNNP** 85(4):371-8.
4. Tu S., Miller L., Piguet O., Hornberger M. (2014) Accelerated forgetting of contextual details due to focal medio-dorsal thalamic lesions **Front Behav Neurosci.** 8:320
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19. Mekala S, Alladi S, Fathima S, O’Connor CM, McKinnon M, Hornberger M, Piguet O, Hodges JR, Mioshi E. Cultural differences affect factors behind carer burden in FTD: a comparison study between India and Australia **Dementia & Neuropsychologia**. 7(1): 104-109.
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**2011**

1. Hsieh S, Hornberger M, Piguet O, Hodges JR. (2011) Neural basis of music knowledge: evidence from the dementias. **Brain** 134(Pt 9):2523-34.
2. Hornberger M, Geng J, Hodges JR. (2011) Convergent grey and white matter evidence of orbitofrontal cortex changes related to disinhibition in behavioural variant frontotemporal dementia. **Brain** 134(Pt 9):2502-12.
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1. Hornberger, M., Savage, S., Hsieh, S., Mioshi, E., Piguet, O., Hodges, J.R. (2010). Orbitofrontal cortex dysfunction discriminates behavioural variant frontotemporal dementia from Alzheimer disease. **Dementia and Geriatrics Cognitive Disorders** 30 (6): 547-52
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7. Lillo, P., Garcin, B., Bak, T., Hornberger, M., Hodges, J.R. (2010). Neurobehavioral features in frontotemporal dementia with amyotrophic lateral sclerosis. **Archives of Neurology** 67(7): 826-30
8. Hornberger, M., Piguet, O., Graham, A.J., Nestor, P.J., Hodges, J.R. (2010). How preserved is episodic memory in behavioral variant frontotemporal dementia? **Neurology** 74(6): 472-9.

**2009**

1. Hornberger, M., Bell, B., Graham, K.S., Rogers, T.T. (2009) Are judgments of semantic relatedness systematically impaired in Alzheimer's disease? **Neuropsychologia** 47(14): 3084-94
2. Garcin B, Lillo P, Hornberger M, Piguet O, Dawson K, Nestor PJ, Hodges JR. (2009) Determinants of survival in behavioral variant frontotemporal dementia. **Neurology** 73(20): 1656-61
3. Hornberger, M., Shelley, B.P., Kipps, C.M., Piguet, O., Hodges, J.R. (2009). Can progressive and non-progressive behavioral variant frontotemporal dementia be distinguished at presentation? **Journal of Neurology, Neurosurgery & Psychiatry** 80(6):591-3
4. Piguet, O., Hornberger, M., Bhaskara, S., Kipps, C.M., Hodges, J.R. (2009) Sensitivity of current criteria for the diagnosis of behavioral variant frontotemporal dementia. **Neurology** 72(8):732-7

**2008 and earlier**

1. Hornberger, M., Piguet, O., Kipps, C.M., Hodges, J.R. (2008). Executive function in progressive and non-progressive behavioral variant frontotemporal dementia. **Neurology** 71(19): 1481-8
2. Graham, K.S., Scahill, V. L., Hornberger, M., Barense, M.D., Lee, A. C. H., Bussey, T. J. & Saksida, L. M. (2006). Abnormal categorization and perceptual learning in patients with hippocampal damage. **Journal of Neuroscience** 26(29): 7547-54
3. Hornberger, M., Rugg, M. & Henson, R.N.A. (2006). fMRI correlates of retrieval orientation. **Neuropsychologia**, 44(8): 1425-1436
4. Henson, R.N.A., Hornberger & Rugg, M. (2005). Further dissociating processes in recognition memory using fMRI. **Journal of Cognitive Neuroscience** 17(7): 1058-1073
5. Hornberger, M, Morcom, A, Rugg, M (2004). Neural correlates of retrieval orientation: effect of study-test similarity. **Journal of Cognitive Neuroscience** 16(7):1196-10

**Enterprise and Engagement**

**Enterprise**

* Deutsche Telekom – Sea Hero Quest project (funded industry-academic research project)
* Cranberry institute – COMBAT study (funded industry-academic research project)
* Glitchers (consultancy)
* AAH software (consultancy)
* Therapy Box (consultancy)
* Akili Interactive (consultancy)
* In-Tech electronics (consultancy)
* MindSet (start-up; defunct)
* NeurOn (start-up)

**Engagement**

* Organiser of Dementia Open Forum at UEA – Dissemination of research findings to lay and public via open seminar series (ARUK charity funded)
* Speaker at various dementia carer meetings several times a year, including Rare Dementia group, NNUH Dementia Fayre, Wymondham dementia café, Thetford dementia café, Hunstanton dementia café
* Speaker at Norwich Science Festival (2016, 2018)
* Organiser of Dementia Academy at NHS Norfolk and Suffolk Foundation Trust – Continued professional development of healthcare and medical staff on evidence-based dementia best practice

**Innovation**

* Distribution and academic licenses for dementia screening tests (including Supermarket trolley test, Sea Hero Quest)
* Distribution and commercial licenses for dementia screening tests (Supermarket trolley test 🡪 diagnostic and outcome measure for pharmacological intervention trials)
* Involvement in UEA-led initiative and workshops, such as the Colney Hall development

**Impact**

* Chair of the Norfolk and Waveney Dementia Partnership Board – Board which influences local policy of dementia services, included key stakeholders from NHS (CCG, STP), Social services, voluntary sector (Age UK, Alzheimer Society), industry (care providers) and Norfolk Constabulary
* Media engagement, including BBC TV; BBC World Service; BBC News Website; Aljazeera; CNN; The Times; The Guardian; New York Times; Washington Post; Daily Mail; WIRED Magazine; German Television (ARD, ZDF, RTL, ORF)
* Preparation of Sea Hero Quest study as an impact case for REF 2021
* Cannes Lions, France - Lions Health awards (n=8) for ‘Sea Hero Quest’: Gold Lion for Use of Mobile; Silver Lion for Commercial Public Services; Silver Lion for Use of Data; Silver Lion for innovative use of social or community; Silver Lion for Health and Wellness: education and services other mobile; Silver Lion for Pharma: HCP Devices & Diagnostics; Bronze Lion for App Games; Bronze Lion for Social Gaming & Competitions

**Editorial Board Member**

* Journal of Alzheimer’s Disease (Senior Editorship)
* Frontiers of Aging Neuroscience (Section Editor)
* Dementia and Geriatrics Cognitive Disorders

**Peer reviews**

**Journals**

Lancet Neurology; Brain; Neurology; Cortex; Neuroimage; Royal Society Proceedings; Human Brain Mapping; Neurobiology of Aging; Journal of Alzheimer’s disease; Neuropsychologia; Journal of the Neurological Sciences; European Journal of Neurology; Brain Research; Dementia and Geriatric Cognitive Disorders; American Journal of Neuroradiology; Nature Reviews Neurology; PLOS ONE; Journal of Neurology; Brain Imaging and Behaviour; BMJ Open; Journal of Neurology, Neurosurgery & Psychiatry; Psychological Medicine; NeuroImage Clinical; Current Biology

**Grants & Fellowships**

Alzheimer Research UK, Australian Research Council - Discovery grants, Australian Research Council – Future Fellowships, NHMRC – Project grants, Medical Research Council, US Israel Binational Science Foundation (BSF), Motor Neurone Disease Association, Belgium FNRS

**Student supervision**

**PhD (13)** 2010 - present

**Masters (6)** 2008 – present

**Undergraduate projects (13)** 2010 - present

**PhD (primary & secondary supervisor)**

* Great Melega (2019- present)
* Seraj Brugi (2019-2020)
* Adriana Michalak (2018 – present)
* Ellen Lowry (2018 – present)
* Vaisakh Puthusserypaddy (2017 – present)
* Celina Dietrich (2017 – present)
* Gillian Coughlan (2016 – present)

• Fergus Gracey (2018-2019)

* Stephanie Wong (2013 – 2016)
* Sicong Tu (2013 – 2016)
* Sharon Savage (2011 – 2014)

• Claire O’Callaghan (2011 – 2014)

• Marshall Dalton (2010 – 2013)

* Priti Biswas (2016 – present)
* Rachel Lambert (2016 – present)
* Caroline Sievers (2014 – 2018)

**Masters**

* Nehal Yemula (2018-2019)
* Styliani Pertesi (2018-2019)
* Francesca Li (2017-2018)
* Daniel Foster (2017-2018)
* Udochukwu Anuforom (2017-2018)
* Sicong Tu (2010 – 2012)
* Claire O’Callaghan (2009 – 2010)
* Anusha Govender (2008 -2009)

**Undergraduate projects**

* Cleo Kitromilidou (2017)
* Sophie Goddard (2017)
* Rachel Ward (2017)
* Charlotte Horrigan (2016)
* Rachel Ward (2016)
* Nancy Huang (2013)
* Tim Ngyuen (2012)

• Michele Ferguson (2012t)

• Ananthan Ambikairajah (2012)

• Joseph Sofaer (2011)

• Eddie Yi (2011)

• Chi Lun Yu (2010)

• Chris Go (2010-2011)

**Presentations (invited speaker only)**

**2019**

* Neurology Department, Imperial College London, London, UK
* Dementia Fayre, Norfolk and Norwich University Hospital, Norwich, UK
* 1st Dementia and Wayfinding international symposium, Edinburgh, UK
* Inauguration of UEA sleep lab, UEA, Norwich, UK
* Norfolk Older People Strategic Partnership, Norwich, UK
* Psychology Department, University of Hertfordshire, UK

**2018**

* 2nd DZNE Interdisciplinary Symposium on Spatial Cognition in Ageing & Neurodegeneration Magdeburg, Germany
* Alzheimer’s Research UK Noontime lecture, Cambridge, UK
* Institute of Public Health, Cambridge University, Cambridge, UK
* Gut-Brain workship, Quadram Institute, Norwich, UK
* Norwich Science Festival, Norwich, UK
* ASDRI conference, Bangalore, India
* Learning & Memory Conference 2018, San Diego, US
* WIRED Health Talk, London, UK
* Dementia Fayre, Norfolk and Norwich University Hospital, Norwich, UK
* NIHR Health Protection Unit Annual Meeting, Norwich, UK
* Royal Institute of Navigation, London, UK
* Older Person Forum, Diss, UK
* Virtual Reality Expo, Nottingham, UK
* Dementia UK 2018, London, UK

**2017**

* Department of Psychology, University College London, UK
* Zurich insurance annual meeting, Zurich, Switzerland
* Neurology Department & Czech Alzheimer Foundation, University of Prague, Czech Republic
* Department of Psychology, University of Bournemouth, UK
* UEA London Lecture, London, UK
* Royal Society of Medicine, London, UK
* Dementia UK 2017, London, UK
* MRI Dementia meeting 2017, Cardiff, UK
* Neurology Department, University of Belo Horizonte, Brazil
* Neurology Department, University of Barcelona, Spain
* Alzheimer’s Research UK Annual meeting, Aberdeen, UK

**2016**

* 7th Neuroimaging Society in ALS Symposia (NiSALS), Dublin, Ireland
* 1st DZNE Interdisciplinary Symposium on Spatial Cognition in Ageing & Neurodegeneration Magdeburg, Germany
* 24th Annual Conference of Indian Academy of Neurology, Kolkata, India
* Norwich Science Festival, Norwich, UK
* Wymondham Dementia Support Group, Norwich, UK
* Norfolk Older People's Strategic Partnership meeting, Public Health, Norfolk County Council, Norwich, UK
* Norwich Medical School Research Awayday – University of East Anglia, Norwich, UK
* 10th International Conference on Frontotemporal Dementias, Munich, Germany
* International Conference on Memory, Budapest, Hungary
* Later life psychologists talk, Norfolk and Suffolk NHS Foundation Trust, Norwich, UK
* NSFT Community Nurses meeting, Julian Hospital, Norwich, UK
* ARUK Public Dementia Event, University of East Anglia, Norwich, UK
* Dementia Strategy Implementation Board, Norfolk County Council, Norwich, UK
* Venturefest East, Newmarket, Suffolk, UK
* Research Committee, Norfolk and Suffolk NHS Foundation Trust, Norwich, UK
* Deutsche Telekom launch of ‘Sea Hero Quest’, Berlin, Germany
* Dementia Research Collaborative Open Fora, University of East Anglia, Norwich, UK
* Inaugural Lecture, University of East Anglia, Norwich, UK
* Alzheimer’s Research UK Scientific Meeting, Cambridge, UK
* Neurology Department, University of Barcelona, Barcelona, Spain
* Dementia Research Day, Norfolk and Suffolk NHS Foundation Trust, Norwich, UK
* Neurology Seminar, Norfolk and Norwich University Hospital, Norwich, UK
* Dementia in Perspective, Norfolk and Suffolk NHS Foundation Trust, Norwich, UK
* Old Age Psychiatrists Research Meeting, Norfolk and Suffolk NHS Foundation Trust Norwich, UK
* Nutrition Group, University of East Anglia, Norwich, UK
* Neuroscience Grand Round, Neurology Department, University of Oxford, Oxford, UK
* Speech and Language Therapists Meeting, Norfolk and Norwich University Hospital, Norwich, UK

**2015**

* MNDA Meeting,Orlando, US
* 6th NISALS Symposium, Orlando, US
* Department of Neurology, Ulm, Germany
* GENFI meeting, Rotterdam, Netherlands
* International Congress on Memory and Behaviour, Porto Alegre, Brazil
* Cambridge Memory meeting, Cambridge, UK
* CUH – MND East Anglia meeting, Cambridge, UK
* North Essex NHS trust – Psychology meeting, Harlow, UK

**2014**

* NISALS – Neuroimaging Society ALS annual meeting 2014, Leuven, Belgium
* Department of Psychology, Brunel University, London, UK
* Department of Psychology, Cardiff University, Cardiff, UK
* Frontotemporal dementia UK meeting 2014, London, UK
* Department of Clinical Neuroscience, Paris, France
* Brain and Mind Institute, Sydney University, Sydney, Australia
* German Center for Neurodegenerative Diseases, DZNE, Magdeburg, Germany
* Department of Neurology, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
* Department of Psychology, University of Cambridge, Cambridge, UK
* MRC- Cognition & Brain Sciences Unit, Cambridge, UK

**2013**

* Institute of Neurology, University College London, London, UK
* MRC- Cognition & Brain Sciences Unit, Cambridge, UK
* Department of Psychology, Cambridge, UK
* Department of Clinical Neurosciences, Cambridge, UK
* European Neuropsychological Society, Berlin, Germany
* Australia & New Zealand Neurology meeting, Sydney, Australia
* Department of Economics, UNSW, Sydney, Australia
* Department of Neurology & Neuropsychology, Santiago, Chile
* College for Clinical Neuropsychology, Sydney, Australia

**2012**

* Department of Clinical Neuroscience, Paris, France
* Sheffield Institute for Translational Neuroscience (SITraN), Sheffield, UK
* Department of Psychology, Edinburgh, UK
* Department of Neuropsychology, Glasgow, UK
* Department of Neurology, Amsterdam, Netherlands
* Department of Neuropsychology, University of Freiburg, Germany
* ARC Center of Excellence for cognition and its disorders, Sydney, Australia
* Department of Neurology, University of Sao Paulo, Sao Paulo, Brazil

**2011**

* Center for Cognitive Disorders, Macquarie University, Australia
* Department of Psychology, Sussex University, UK
* Cognitive Neuropsychology Symposium, Sydney, Australia
* Department of Psychology, University of Auckland, Auckland, New Zealand

**2009**

* Department of Psychiatry, UNSW, Sydney, Australia
* ICAD conference, Vienna, Austria
* Salpetriere Hospital, University Paris 6, Paris, France
* Department of Neurology, University of Sao Paulo, Sao Paulo, Brazil

**2008**

* INECO Institute, Buenos Aires, Argentina
* Prince of Wales Medical Research Institute, Sydney, Australia
* MACCS, Macquarie University, Sydney, Australia

**2007**

* University of Sydney, Sydney, Australia

**2006**

* Institute of Child Health, London, UK

**Contributions to the scientific and non-scientific community**

* 2016, 2018: Norwich Science Festival
* 2015 – Present: UEA Dementia Open Forum
* 2014 – Present: Lead of Cambridge neuropsychology chapter for GENFI (Genetic Frontotemporal Dementia Initiative)
* Sept 2014: Wellcome Trust Clover Project
* 2013 – Present: Alzheimer Research UK (ARUK) public events and publication involvement
* 2013 – Present: Alzheimer Research UK (ARUK) Cambridge Network
* 2013 – Present: Finance committee member – International Society for Frontotemporal

Dementia (ISFTD)

* 2013 – 2015: PTA Chair Trumpington Federation Schools
* 2007 – Present: Dementia carer meeting presentations and interactions
* 2007 – 2013: Community talks at societies (Lions club, Rotary club) and sport clubs
* 2011 – 2013: Publication of lay man research findings on departmental website