

Dr. Ross A. Dunne

Curriculum Vitae

January 9, 2026

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GMC No.: 7250974
Entry to Specialist Register: 19/8/15



Summary

Consultant in Old Age Psychiatry and Clinical Director of the Greater Manchester Dementia Research Centre, with expertise in early diagnosis of neurodegenerative disease, biomarkers, and clinical trial delivery. Established the UK's first psychiatrist-led CSF biomarker service in 2022—initially single-handed, now scaled into the Manchester Brain Health Centre, underpinned by philanthropic and third sector partnerships and £35 million in industry investment for discovery and clinical science using the cohort as rolling research infrastructure. Principal or Co-Investigator on 30+ clinical trials spanning Phase I-III, with total collaborative research portfolio exceeding £15 million. Current work focuses on platform trials for disease-modifying therapies, molecular diagnostics, and vascular contributions to cognitive impairment.

Education

- 2010 **PgDipStat**, *Trinity College Dublin*
Postgraduate Diploma in Statistics
- 2010 **MRCPsych**, *Royal College of Psychiatrists*
Membership of the Royal College of Psychiatrists
- 2005 **MB BCH BAO**, *Trinity College Dublin*
Medical Degree (Date of degree conferral: 17/6/2005)

Professional Appointments

- 2015–Present **Consultant in Old Age Psychiatry**, *Greater Manchester Mental Health Foundation Trust*, Manchester

Previous Clinical Appointments

- 2012–2015 **NIHR ACF in Dementia / ST in Old Age Psychiatry**, *Cambridge & Peterborough Foundation Trust*, Cambridge
Academic Supervisor: Prof. John O'Brien
- 2008–2012 **Research Fellow in Psychiatry**, *St. Patrick's University Hospital*, Dublin
Supervisor: Prof. Declan McLoughlin
- 2006–2008 **SHO in Psychiatry**, *St. Patrick's University Hospital*, Dublin
Supervisor: Prof. Anthony Clare
- 2005–2006 **Intern in Medicine and Surgery**, *St. James's University Hospital*, Dublin
Supervisor: Prof. John Reynolds

Academic and Leadership Appointments

- 2024–Present **NIHR-RDN NW England Dementia Clinical Lead**
- 2021–Present **Board Member and Dementia Theme Co-Lead**, *Geoffrey Jefferson Brain Research Centre*
- 2020–Present **Theme Lead for Dementia**, *Health Innovation Manchester (Manchester AHSN)*
- 2019–Present **Clinical Director**, *Greater Manchester Dementia Research Centre*
Leading the largest and most active dementia research centre in the Northwest with 7 staff and 9 ongoing studies. Managing commercial and grant-funded portfolio across Phase I–III trials. Established key partnerships with Salford Royal (NCA) and University of Manchester. Member of the national Dementia Trials Network (led by Prof. Mummery). www.gmdrc.co.uk
- 2019–2024 **NIHR-CRN Greater Manchester Dementia Clinical Lead**
- 2019–2024 **Honorary Senior Lecturer**, *University of Manchester*
- 2019–2022 **Strategic Clinical Network Advisor (Dementia)**, *GM/Cheshire*
- 2012–2015 **NIHR Academic Clinical Fellowship**, *Cambridge & Peterborough Foundation Trust*
Educational Supervisor: Dr Deborah Girling; Academic Supervisor: Prof. John O'Brien. Approximately 20% research time during higher clinical training in Later Life Psychiatry. Recruited to industry and NIHR funded studies.
- 2010–2012 **HRB Research Training Fellowship**, *St. Patrick's University Hospital, Dublin*
Clinical Research Fellow on the EFFECT-Dep study. Randomised controlled double blind study of right unilateral versus bilateral ECT in severe depression under PI Prof. Declan McLoughlin.

Teaching and Training

Undergraduate Teaching

Undergraduate tutor in psychiatry at Trinity College Dublin. Regular small group teaching for Cambridge University students during training. Current online seminars with University of Manchester students.

Postgraduate Teaching

Faculty member for the Neurology Academy, Sheffield. Teaching on Parkinson's Disease neuropsychiatry, Palliative and Dementia Masterclasses, and Mild Cognitive Impairment/Brain Health webinar series. Registered trainer and educational supervisor of higher trainees in old age psychiatry.

Clinical Trials Experience (last 5 years)

Summary Principal or Co-Investigator on 30+ clinical trials across Alzheimer's disease, neuropsychiatric disorders, biomarkers, and platform trials. Extensive experience with industry-sponsored Phase II/III trials and NIHR-funded studies.

Alzheimer's Disease Monoclonal Antibodies (n=9)

- 2024– **Gabriella**, *Roche*, PI, Brain-shuttle Gantenerumab
- 2022–2023 **ENVISION**, *Biogen*, PI, Phase IV Aducanumab
- 2020–2023 **Invoke**, *Alector*, PI, AL002 mAb
- 2020–2022 **EMBARK**, *Biogen*, PI, Aducanumab

Other Alzheimer's Disease Therapeutics (n=6)

- 2022– **CELIA**, *Biogen*, CI, Tau anti-sense oligonucleotide
- 2021–2023 **Evoke/Evoke+**, *Novo Nordisk*, PI, Semaglutide for AD/VaD
- 2017–2020 **Mission AD**, *EISAI*, PI, E2609

Neuropsychiatric Symptoms & Depression (n=5)

- 2023– **ANTLER75+**, *NIHR*, PI, Antidepressant withdrawal in over 75s
- 2022– **CICERO**, *NIHR*, PI, Cognitive intervention for Long-Covid
- 2022– **Aspect**, *Avanir*, PI, Dextrometorphan/Quinidine for agitation

Biomarker, Diagnostic & Cohort Studies (n=8)

- 2025– **READOUT**, *NIHR/ARUK/AS*, Co-I, Real world dementia outcomes
- 2023– **AllinOne**, *Alzheimer's Society*, Co-I, Blood biomarkers and ASL for AD

- 2023– **Hear-App**, *HInM*, Co-I, Pure tone audiometry feasibility
- 2022– **ABHAD**, *Hearing Health BRC*, Co-I, Auditory biomarkers in AD
- 2020–2022 **Cognetivity**, *Cognetivity Ltd*, PI, Novel cognitive testing
Platform Trials & Innovation (n=3)
- 2025– **AD-SMART**, *MRC Trials Accelerator*, Co-I, Platform trial in AD
- 2020– **StrataStem II**, *StrataStem Ltd*, CI, iPSC platform for molecular libraries

Grants and Funding

- 2026–2031 **Treating auditory impairment to preserve cognition in people with mild cognitive impairment**, *NIHR PGfAR*, £3.4 million, Co-Applicant
- 2026–2028 **AD-SMART**, *ARUK*, £2.5 million, Co-Investigator, "Outcomes WP" lead
- 2025–2027 **Manchester Brain Health Centre**, *AlzSoc*, £1.5 million, Clinical Director
- 2025–2028 **Dementia Trials Network Manchester Site**, *MRC/DRI*, £500,000, PI
- 2025–2028 **Alzheimer's Society Research Nurse Post**, *AlzSoc*, £283,000, PI
- 2025–2030 **AD-SMART**, *MRC/DRI*, £5.0 million, Co-Investigator, "Outcomes WP" lead
- 2024–2026 **ADA-PreMASTODON**, *NIHR-HTA*, £200,000, Co-Applicant
- 2024–2025 **Biomarkers of cognitive impairment in CKD**, *Kidneys For Life*, £20,000, Co-Applicant, Supervisor
- 2024–2029 **READ-OUT – REAL world Dementia OUTcomes**, *ARUK/AlzSoc/NIHR*, £4.5 million, Co-Applicant, Site PI
- 2023–2028 **ANTLER75+ Antidepressants to prevent relapse in depression in older people**, *NIHR HTA*, £1.95 million, Co-Applicant, Site PI
- 2023–2026 **All-in-One neuroimaging for Mild Cognitive Impairment**, *Alzheimer's Society*, £383,580, Co-Applicant, PI
- 2023–2025 **Molecular imaging of neurodegenerative pathology using deuterium MRI**, *MRC*, £179,765, Co-Applicant, Adviser
- 2022–2023 **Neurological impact of COVID-19: SARS-CoV-2 neurovascular and neurodegenerative processes**, *University of Manchester*, £50,000, Co-Applicant
- 2010–2012 **Determinants of cognitive impairment after ECT**, *Health Research Board*, £153,000, PI/Salary award

Awards and Honors

- 2025 **Health Services Journal Award**
Best Pharmaceutical Collaboration with the NHS (DPUK-led multisite evaluation project with Lilly, GMMH and NHS trusts in Sheffield, Oxford, Sussex)
- 2024 **ACCIA National Clinical Impact Award Level N1**
- 2023 **Health Services Journal Award**
Modernising Diagnostics award for brainHealth Manchester – novel diagnostic pathway for MCI

Peer-Reviewed Journal Articles

- [1] Vanova, M.Patel, A. M. R.Scott, I.Gilpin, G.Gilpin, G.Manning, E. N.Ash, C.Wittenberg, P.Lim, J.Hoare, Z.Evans, R.Bray, N.Kipps, C.Devine, C.Ahmed, S.Dunne, R.Dunne, R.Koniotes, A.Warren, C.Chan, D.Suarez-Gonzalez, A. “Effectiveness of Telehealth-Delivered Cognitive Rehabilitation for People with Cognitive Impairment as Part of Long COVID: Results from the CICERO (Cognitive Impairment in Long COVID: Phenotyping and Rehabilitation) Randomised, Controlled, Two-Arm, Parallel-Group, Clinical Trial”. In: *Preprint* (). Available at SSRN: <https://ssrn.com/abstract=5527836>. DOI: 10.2139/ssrn.5527836.
- [2] Iqbal, S.Olivares, C. B.Rizzo, L.Parker, T. D.Wong, C.Underwood, B. R.Carpenter, J.Dunne, R.Raymont, V.Reith, A. “Repurposed Drug Prioritisation Pipeline for an Alzheimer’s Disease Multi-arm Platform Trial”. In: *Alzheimer’s & Dementia* 21 (2025), e102227. DOI: 10.1002/alz.102227.
- [3] Merlino, L.Rainone, F.Chinnadurai, R.Hernandez, G.Tollitt, J.Battini, G. G.Colombo, P. M.Trivelli, M.Stewart, S.Dunne, R. A. “Health outcomes in chronic kidney disease patients with cognitive impairment or dementia: a global collaborative analysis”. In: *Clinical Kidney Journal* 18.1 (2025), sfae401. DOI: 10.1093/ckj/sfae401.
- [4] Merlino, L.Tollitt, J.Dunne, R. A.Kalra, P. A. “Pathophysiology of cognitive impairment in chronic kidney disease”. In: *Current opinion in nephrology and hypertension* 34.6 (2025), pp. 459–468. DOI: 10.1097/MNH.0000000000001043.
- [5] Qin, H.Pointon, L.Carpenter, J.Raymont, V.Dunne, R.Reeves, S.Ali, S.Iqbal, S.Bonet-Olivares, C.Whittle, J. “PPIE in clinical trials at scale: analysis of the first 3,250 responses on the POrtal for Patient and Public Engagement in Dementia (POPPED)”. In: *medRxiv* (2025), pp. 2025–08. DOI: 10.1101/2025.01.08.25320302.
- [6] Kellett, K.Pickard, A.Fisher, K.Mitchell, A.Dunne, R.Smith, C.Kadler, K.Hooper, N. “Uptake and replication of SARS-CoV-2 in the cells of the neurovascular unit”. In: *Cerebral Circulation-Cognition and Behavior* 6 (2024), p. 100116. DOI: 10.1016/j.cccb.2024.100116.
- [7] Koychev, I.Harrison, J.Malhotra, P.Dunne, R.Sheehan, B. “Shifting paradigms in dementia care: navigating new therapies and prevention strategies”. In: *The British Journal of Psychiatry* 224.6 (2024), pp. 187–188. DOI: 10.1192/bjp.2024.55.
- [8] Vanova, M.Patel, A. M. R.Scott, I.Gilpin, G.Manning, E. N.Ash, C.Wittenberg, P.Lim, J.Hoare, Z.Evans, R.Bray, N.Kipps, C. M.Devine, C.Ahmed, S.Dunne, R.Koniotes, A.Warren, C.Chan, D.Suarez-Gonzalez, A. “Telehealth-delivered cognitive rehabilitation for people with cognitive impairment as part of the post-COVID syndrome: protocol for a randomised controlled trial as part of the CICERO (Cognitive Impairment in Long COVID: Phenotyping and Rehabilitation) study”. In: *Trials* 25.1 (2024), p. 704. DOI: 10.1186/s13063-024-08554-3.
- [9] Dunne, R.Coulthard, E. “Tipping the scales towards routine APOE genotyping”. In: *Journal of Neurology, Neurosurgery & Psychiatry* 94.9 (2023). Editorial, pp. 669–669. DOI: 10.1136/jnnp-2023-331180.
- [10] Taylor, J. L.Walsh, K. R.Mosneag, I.-E.Danby, T. G.Luka, N.Chanda, B.Schiessl, I.Dunne, R. A.Hill-Eubanks, D.Hennig, G. W. “Uncoupling of Ca²⁺ sparks from BK channels in cerebral arteries underlies hypoperfusion in hypertension-induced vascular dementia”. In: *Proceedings of the National Academy of Sciences* 120.33 (2023), e2307513120. DOI: 10.1073/pnas.2307513120.
- [11] Dunne, R. A.Aarsland, D.O’Brien, J. T.Ballard, C.Banerjee, S.Fox, N. C.Isaacs, J. D.Underwood, B. R.Perry, R. J.Chan, D. “Mild cognitive impairment: the Manchester consensus”. In: *Age and ageing* 50.1 (2021), pp. 72–80. DOI: 10.1093/ageing/afaa228.
- [12] Husain, M. O.Zehra, S. S.Umer, M.Kiran, T.Husain, M.Soomro, M.Dunne, R.Sultan, S.Chaudhry, I. B.Naeem, F. “Stigma toward mental and physical illness: attitudes of healthcare professionals, healthcare students and the general public in Pakistan”. In: *BJPsych Open* 6.5 (2020), e81. DOI: 10.1192/bjo.2020.66.
- [13] Iracema, L.Charlotte, P.Rebecca, D.Ross, D.Louise, E.Mahesh, G.Vachagan, K.Jane, L.Helen, M.Jane, P.Wilby, W. “Blueprint for a Brain Health Clinic to Detect and Manage Early-Stage Cognitive Decline: A Consensus Exercise”. In: *Journal of Neurodegenerative Disorders* 3.1 (Mar. 2020). ISSN: 26424274. DOI: 10.36959/459/600.
- [14] Donald, G.Wilson, I.McCarthy, J.Hall, I.Crossley, B.Adshead, P.Shaw, V.Dunne, R.Dwyer, T. “Experiences of nurses and other health workers participating in a reflective course on compassion-based care”. In: *British Journal of Nursing* 28.15 (2019), pp. 1020–1025. DOI: 10.12968/bjon.2019.28.15.1020.
- [15] Leroi, I.Chaudhry, N.Daniel, A.Dunne, R.Eman, S.Farina, N.Haidry, S.-e.-Z.Husain, N.Jaffri, H.Karim, S. “A roadmap to develop dementia research capacity and capability in Pakistan: a model for low-and middle-income countries”. In: *Alzheimer’s & Dementia: Translational Research & Clinical Interventions* 5 (2019), pp. 939–952. DOI: 10.1016/j.trci.2019.10.005.

- [16] Ryan, K. M.Dunne, R.McLoughlin, D. M. “BDNF plasma levels and genotype in depression and the response to electroconvulsive therapy”. In: *Brain stimulation* 11.5 (2018), pp. 1123–1131. DOI: 10.1016/j.brs.2018.06.004.
- [17] Ryan, K.Glaviano, A.O'Donovan, S.Kolshus, E.Dunne, R.Kavanagh, A.Jelovac, A.Noone, M.Tucker, G.Dunn, M. “Electroconvulsive therapy modulates plasma pigment epithelium-derived factor in depression: a proteomics study”. In: *Translational psychiatry* 7.3 (2017), e1073. DOI: 10.1038/tp.2017.44.
- [18] Semkovska, M.Landau, S.Dunne, R.Kolshus, E.Kavanagh, A.Jelovac, A.Noone, M.Carton, M.Lambe, S.McHugh, C. “Bitemporal versus high-dose unilateral twice-weekly electroconvulsive therapy for depression (EFFECT-Dep): a pragmatic, randomized, non-inferiority trial”. In: *American Journal of Psychiatry* 173.4 (2016), pp. 408–417. DOI: 10.1176/appi.ajp.2015.15030372.
- [19] Noone, M.Semkovska, M.Carton, M.Dunne, R.Horgan, J.-P.O'Kane, B.McLoughlin, D. M. “Construction and updating of a public events questionnaire for repeated measures longitudinal studies”. In: *Frontiers in Psychology* 5 (2014), p. 230. DOI: 10.3389/fpsyg.2014.00230.
- [20] Dunne, R. A.McLoughlin, D. M. “Physical treatments”. In: *Medicine* 40.12 (2012). Review article, pp. 672–673. DOI: 10.1016/j.mpmed.2012.09.014.
- [21] Dunne, R. A.McLoughlin, D. M. “Systematic review and meta-analysis of bifrontal electroconvulsive therapy versus bilateral and unilateral electroconvulsive therapy in depression”. In: *The World Journal of Biological Psychiatry* 13.4 (2012), pp. 248–258. DOI: 10.3109/15622975.2011.608473.
- [22] Semkovska, M.McLoughlin, D.Dunne, R.Noone, M. “Cognitive effects of ECT”. In: *International Journal of Neuropsychopharmacology* 15.S1 (2012), pp. 26–27.
- [23] Dunne, R.McLoughlin, D. “Regional variation in electroconvulsive therapy use”. In: *Irish Medical Journal* 104.3 (2011), p. 84.
- [24] Kolshus, E.Douglas, L.Dunne, R. “Antidepressant augmentation and combination in unipolar depression: strong guidance, weak foundations”. In: *Irish Journal of Psychological Medicine* 28.4 (2011). Review Article, pp. i–ix.
- [25] Dunne, R.Kavanagh, A.McLoughlin, D. M. “Electroconvulsive therapy, capacity and the law in Ireland”. In: *Irish journal of psychological medicine* 26.1 (2009), pp. 3–5. DOI: 10.1017/S0790966700000021.
- [26] Dunne, R.McLoughlin, D. M. “Physical treatments”. In: *Medicine* 36.9 (2008), pp. 499–500. DOI: 10.1016/j.mpmed.2008.06.013.

Book Chapters

- [27] Dunne, R.Burns, A. “Drugs to Treat Dementia”. In: *Seminars in Clinical Psychopharmacology*. Cambridge University Press, 2020, p. 433.
- [28] Dunne, R. A.O'Neill-Kerr, A.McLoughlin, D.Waite, J. “Treatment Suites and Practical Aspects of ECT”. In: *ECT Handbook 4th Edition*. Cambridge Core, 2019, pp. 183–201.
- [29] Dunne, R. A.McLoughlin, D. M. “ECT prescribing and practice”. In: *The ECT Handbook. 3rd ed. London: Royal College of Psychiatrists Publications*. Vol. 176. 2013, pp. 28–44.
- [30] Fear, C. F.Dunne, R. A.McLoughlin, D. M. “Treatment of Schizophrenia and catatonia”. In: *The ECT Handbook*. RCPsych Publications, 2013, p. 140.
- [31] Dunne, R. A.McLoughlin, D. M. “Electroconvulsive therapy and therapeutic neuromodulation”. In: *Core Psychiatry*. Elsevier BV, 2012, pp. 617–62711.

Conference Proceedings and Abstracts

- [32] Bowden, F.Sparasci, O.Land, L.-M.Ahmed, S.Matys, T.Menon, V.Greenstein, A.Dunne, R.T O'Brien, J.Parkes, L. M. “Altered CBF and Oxygen Metabolism in MCI and Association With Degree of Cognitive Impairment”. In: *Cerebral Circulation-Cognition and Behavior*. Vol. 9. Elsevier. 2025, p. 100425. DOI: 10.1016/j.cccb.2025.100425.
- [33] Dunne, R. A.Exalto, L.Young, S.Hainsworth, A.Raymont, V. “Variation in vascular risk assessment and management across UK memory/brain health clinics: a cross-sectional survey”. In: vol. 9. Elsevier, 2025, p. 100476. DOI: 10.1016/j.cccb.2025.100476.
- [34] Merlino, L.Rainone, F.Chinnadurai, R.Battini, G.Colombo, P.Trivelli, M.Dunne, R.Kalra, P. A. “# 1490 Long-term health outcomes in non-dialysis dependent chronic kidney disease patients with cognitive impairment or dementia”. In: vol. 39. Supplement_1. Oxford University Press, 2024, gfae069–0673. DOI: 10.1093/ndt/gfae069.0673.

- [35] Bradley, R.Fox, S.Dunne, R.Leroi, I. “Risk Reduction: A Novel Brain Health-focused Pathway for Patients with Mild Cognitive Impairment in Greater Manchester”. In: vol. 19. 2023, e082741. DOI: 10.1002/alz.082741.
- [36] Senior, M.Hewson, T.Brownless, F.Dunne, R. “Improving the Identification, Assessment and Management of Osteoporosis and Fragility Fracture Risk on a Later Life Psychiatry Ward: A Complete Audit Cycle”. In: vol. 8. S1. Cambridge University Press, 2022, S113–S113.
- [37] Dunne, R.Lambe, S.Kavanagh, A.McLoughlin, D. “Predictors of Immediate Physical and Cognitive Side Effects of Electroconvulsive Therapy”. In: *BIOLOGICAL PSYCHIATRY*. Vol. 71. 8. ELSEVIER SCIENCE INC 360 PARK AVE SOUTH, NEW YORK, NY 10010-1710 USA. 2012, 101S–101S.
- [38] Hughes, M. M.Dunne, R.Noone, M.McLoughlin, D. M.Connor, T. J. “Inflammatory gene expression profile in treatment resistant depression”. In: *Irish Journal of Medical Science*. Vol. 180. Springer London Ltd 236 Grays Inn Rd, 6th Floor, London WC1X 8HL, England. 2011, pp. 55–55.
- [39] Hughes, M. M.Dunne, R.Noone, M.McLoughlin, D.Connor, T. “Inflammatory gene expression profile in treatment resistant depression”. In: vol. 24. Supplement 1. Elsevier BV, 2010, S62–S63. DOI: 10.1016/j.bbi.2010.07.240.

Other Publications

- [40] Noone, M.Semkovska, M.Carton, M.Dunne, R.Horgan, J.-P.O’Kane, B.McLoughlin, D. M. *Public Events Questionnaire*. Frontiers in Psychology. Dataset. 2014.

Conference Presentations (Last 5 years shown)

International

- 2025 Variation in vascular risk assessment and management across UK and Irish memory/brain health clinics: a cross-sectional survey, *VasCog 2025*
- 2025 Repurposed Drug Prioritisation Pipeline for an Alzheimer’s Disease Multi-arm Platform Trial, *Alzheimer’s Association International Conference*
- 2024 Long-term health outcomes in non-dialysis dependent chronic kidney disease patients with cognitive impairment or dementia, *ERA-EDTA 2024*
- 2024 brainHealth Manchester and preparedness for Disease Modifying Treatments, *American Hospital for Neurology and Psychiatry*, Abu Dhabi
- 2023 Brain Health Clinics, novel pathways for the diagnosis of neurodegeneration, *Royal College of Psychiatrists International Congress*
- 2023 Psychosis in Parkinson’s Disease, *World Parkinson’s Congress*, Barcelona
- 2023 Roundtable on Psychosis in PD, *World Parkinson’s Congress*, Barcelona
- 2023 Risk Reduction: A Novel Brain Health-focused Pathway for Patients with MCI in Greater Manchester, *AAIC Amsterdam*
- 2022 Lithium and other Inhibitors of Tau phosphorylation, *Royal College of Psychiatrists International Congress*
- 2022 Improving Identification, Assessment and Management of Osteoporosis and Fragility Fracture Risk on a Later Life Psychiatry Ward, *RCPsych International Congress*

National (UK and Ireland)

- 2025 Cases in Dementia Diagnosis, *Dementias UK Conference*
- 2024 Building molecular diagnostics in NHS Mental Health Trusts, *NHSE Northwest Dementia SIG*
- 2024 brainHealth Manchester, roadmap toward DMTs for GM, *British Geriatrics Society NW division*
- 2024 Dementia Research Update, *RCPsych Northwest Dementia Symposium*
- 2024 Titanic problems in machine learning, *ARUK Research Conference*
- 2024 Getting up and walking with CSF biomarkers in UK MH trusts, *London Memory Clinic Network*
- 2024 Neuropsychiatry of Parkinson’s update, *Parkinson’s UK*
- 2024 Clinical Cases, *Dementias Conference 2024*
- 2023 Building a Brain Health Clinic, *Old Age Psychiatry Faculty RCPsych Webinar*

- 2023 **Brain Health Clinics**, *RCPsych Old Age Psychiatry Conference*
- 2023 **Cases panel chair**, *Dementias Conference 2023*
- 2022 **Cognitive Assessment in Context: Education, Language and Culture**, *ARUK Clinical Conference*
- 2022 **Motivational Interviewing for Brain Health**, *Brain Health 2022*, Edinburgh
- 2022 **Brain Health Manchester - Pathway and Progress**, *Oxford Brain Health Symposium*
- 2021 **Effect of baseline systolic hypertension on cognitive decline in Alzheimer's disease**, *British Geriatric Society National Conference*
- 2020 **Diagnosis in AD**, *Dementias UK Conference*, Online
- 2020 **Biomarkers**, *Alzheimer Society National Conference*, Online

Professional Memberships

- International Psychogeriatric Association (2019–Present)
- International Parkinson's and Movement Disorders Society (2018–Present)
- British Geriatric Society (2017–Present)
- Royal College of Psychiatrists (2010–Present)

Innovation and Service Development

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|--------------------------------|--|
| Manchester Brain Health Centre | In 2022, established the UK's first psychiatrist-led CSF biomarker clinic—initially single-handed, personally pipetting, processing, and freezing CSF samples. Integrated MFT cardiovascular risk assessment services and secured £1.6m from Alzheimer's Society, scaling this foundation into the Manchester Brain Health Centre. Built infrastructure now supporting £35 million industry investment across two research strands (discovery science and clinical science), with the Brain Health Centre population serving as rolling clinical cohort for translational research. Centre provides comprehensive risk assessment including CSF and blood molecular diagnostics, cardiovascular risk profiling, risk reduction interventions using Motivational Interviewing, and clinical trial recruitment. Part of the UK's Brain Health Coalition led by ARUK and Alzheimer's Society. |
| National Impact | First psychiatrist in the UK to establish in-house CSF biomarker diagnostics for AD. Advised clinicians throughout UK, Middle East, and Europe on replication. Number of biomarker-active brain health clinics in UK increased from 1 to 10 over past two years. Worked with industry partners (Lilly, Roche) and MFT Laboratory Directorate to establish England's second NHS Alzheimer's CSF Biomarker laboratory, now receiving samples from Sussex, Oxford, Sheffield, Salford and Surrey. |
| Regional MDT | Convened regional MDT group (August 2024) with neurology, neuroradiology, nuclear medicine, geriatrician and pharmacy colleagues for safe implementation of monoclonal antibodies as disease modifiers in Alzheimer's. |

Research Skills and Expertise

Clinical Trial Experience

Extensive experience in clinical trial design, setup, and coordination for both multicentre industry studies and complex local studies. Proficient in ethics applications, rater training, scale standardisation, data security, and trial coordination. Experienced in biological sample handling including human plasma, CSF, DNA and RNA samples.

Proficient in diagnostic and therapeutic lumbar puncture and CSF pre-analytic sample management for biomarker studies.

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| Rating Scales | RBANS, CDR, MoCA, MMSE, ADAS-Cog, CIBIC, CSSES, MADRS, HAMD17/24, TOPE, Mediterranean Diet Scale, PSQI, ESI, CASP-19, GAD9, PHQ9. Proficiency in Aortic Pulse Wave Velocity measurement and Pure Tone Audiometry (HEARX). |
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Statistics and Computing

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| Programming | Experience in R, Python, and C++. Statistical programming includes multi-level/mixed effects modelling (lmer in R) and deep learning (TensorFlow, PyTorch). Working knowledge of Django web development framework, HTML, JavaScript, CSS. |
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Qualifications	PgDipStat from TCD (2010). ONS accredited "Safe Researcher". Google accredited certificate in IT automation with Python. Completed 4-day "Regression Modelling Strategies" course with Prof. Frank Harrell at Vanderbilt (2022/3).
Tools	Familiar with BASH shell and Linux environments. Regular use of LaTeX and Quarto for document typesetting. Developed web calculator for cognitive assessment based on RBANS and TOPE.
Current Study	BSc in Mathematics with the Open University (in progress).

Software and Tools

bibword	TypeScript MS Word plugin for the use and management of pure BibTeX bibliographies in academic writing: https://github.com/sadneurons/bibword
RBANS calculator	JavaScript web app for the lookup and plotting of RBANS cognitive scores based on age norms: http://brainhealthmanchester.com/rbanstools/rbanscalculator.html
sysreport	Linux CLI tool for reporting hardware and utilisation https://github.com/sadneurons/sysreport

Training and Professional Development

Statistical and Computing Courses

2023	European Laboratory for Learning and Intelligent Systems Summer School, <i>Manchester ELLIS centre</i>
2023	Regression Modelling Strategies, <i>F. Harrell/Vanderbilt</i>
2022	Structure and Interpretation of Computer Programs, <i>David Beazley</i>
2022	Regression Modelling Strategies, <i>F. Harrell/Vanderbilt</i>
2021	Safe Researcher Training, <i>UK Data Service</i>
2021	Google IT Automation with Python (Certificate), <i>Coursera (Google)</i>
2021	Customising models with TensorFlow 2, <i>Coursera (Imperial College London)</i>
2021	Mathematics for Machine Learning (Multivariable Calculus), <i>Coursera (Imperial College London)</i>
2021	Getting started with TensorFlow 2, <i>Coursera (Imperial College London)</i>
2019	Mathematics for Machine Learning (Linear Algebra), <i>Coursera (Imperial College London)</i>
2013	BUGS for data analysis, <i>MRC Biostatistics Unit, Cambridge</i>
2012	Advanced R programming, <i>Hadley Wickham</i>
2011	R programming for researchers, <i>Tango Consulting</i>

Service and Leadership

UK Brain Health Coalition	Founder member and Co-Chair of UK's Brain Health Coalition (convened under ARUK and Alzheimer's Society). Lead regular meetings to teach and disseminate approaches to early diagnosis and post-diagnostic support, advancing the brain health model nationally.
CRN Leadership	Clinical Research Network Lead for Dementia since 2019. Facilitated delivery and development of dementia research across Greater Manchester.
COVID Response	Member of NIHR's working group on remote trial delivery during COVID pandemic, developing framework for COVID-safe and robust trials.
International Advisory	As first psychiatrist in UK to establish CSF biomarker clinic for AD, advised clinicians throughout UK, Middle East, and Europe on service development. Hosted visiting fellows from Spain and Oman.

Academic Service

- Grant Review Grant review board co-chair for Alzheimer's Society UK (2022–25), chairing and co-chairing expert review panels on physiology, biomarkers and clinical research. Grant review board member for Alzheimer's Research UK (2023–25) and The Alzheimer Society Ireland (2023).
- Trial Oversight Member of two clinical trial steering committees, chairing COBALT (NIHR EME).
- Peer Review Regular peer reviewer for journals in the field. Reviewer and panel member for NIHR i4i programme (2022).
- Editorial Invited guest editor for British Journal of Psychiatry's special issue on disease modifying therapies in Alzheimer's Disease (2023).

Patient and Public Engagement

- Trafford MCI group – regular speaker
- Together Dementia Support – go-to speaker for research updates
- Trafford Parkinson's Peer Support Group
- Founder member, UK Brain Health Coalition

Current University of Manchester Collaborations

- Dr. Sasha Philbert Cardiovascular Sciences – Alzheimer's Society Fellowship (Sodium MRI in VaD)
- Dr. Karen Hampson Vision Science – UKRI cross-disciplinary application on Adaptive Optics for retinal biomarkers of neurodegeneration, as well as DTP PhD applications
- Prof. Stuart Allan Neuroscience – Manchester Brain Health Centre and Manchester Vascular Risk, Inflammation and Cognition (MaVRICS) bid
- Prof. Adam Greenstein Cardiovascular Sciences – Manchester Brain Health Centre and validation of druggable targets for improving brain bloodflow
- Dr. Jenna Littlejohn Hearing Health BRC – ABHAD study and plans for Brain Health Centre
- Prof. Laura Parkes Neuroimaging – AllinOne study and Manchester Brain Health Centre

Press and Media

- 2024 **BBC Radio Manchester**
Interview on developments in dementia research and diagnostics
- 2008 **Nothing to worry about?**, *Irish Medical Times*
Article on anxiety disorders (with Dr Michael McDonough): <https://www.imt.ie/clinical/mental-health/nothing-to-worry-about-05-06-2008/>

Disclosures and Industry Contact

I hold no shares, and have no financial interest in any pharmaceutical companies. I have never taken speaker fees from pharmaceutical companies and involvement in, for example, advisory boards (Roche, Biogen, Lilly) is contracted with my trust, with all monies ploughed back into R & I. In my capacity as theme lead in Health Innovation Manchester I have worked with major pharmaceutical companies: TauRx, Biogen, Lilly, Roche, as well as spin-out companies: Stratastem, Alnostics, and SMEs like Linus, Scottish Brain Sciences, and Cognito, in preparing grant applications, designing roll-out, building an evidence base for healthcare system adaptation, and other aspects of service improvement and evaluation at the devolved health-system level. Most recently, I have consulted on Health Technology Assessment for novel therapeutics for Lilly, who likewise contracted with my NHS Trust.

References

Available upon request