

## PERSONAL INFORMATION

Name (1<sup>st</sup>/last): Andre Marquand

Date of birth: 12 November 1977

Nationality: British / New Zealander

IDs: ResearcherID: B-6050-2012, ORCID: 0000-0001-5903-203X, SCOPUS: 36914890300

Webpage: <http://www.predictiveclinicalneuroscience.com>

## EDUCATION

- 2011 PhD (Clinical Neuroscience). Degree awarded with no corrections required  
Department of Neuroimaging, Institute of Psychiatry, King's College London, U.K.  
Supervisors: Dr. Janaina Mourao-Miranda and Dr. Mitul Mehta
- 2007 MSc (Neuroscience). Awarded with distinction. I achieved the highest mark in a class of 35  
Department of Neuroimaging, Institute of Psychiatry, King's College London, U.K.
- 1999 BSc (Computer Science and Psychology). GPA: A- (= first class honours in the U.K.)  
University of Canterbury, Christchurch, New Zealand

## CURRENT POSITION(S)

- 2014 – present Principal Investigator and Full Professor (promoted in 2019 from Assistant Professor and in 2022 from Associate Professor). Radboud University Medical Centre and Donders Institute for Brain Cognition and Behaviour, Radboudumc, Nijmegen, Netherlands
- 2014 – present Honorary Researcher, Institute of Psychiatry, Psychology and Neuroscience (IoPPN), King's College London, U.K.

## PREVIOUS POSITIONS

- 2011 – 2014 Lecturer (equivalent to assistant professor) IoPPN, King's College London, U.K (promoted from post-doctoral research associate in 2012)
- 2011 – 2013 Faculty Member, Machine Learning and Neuroimaging, University College London, U.K.
- 2007 Research Assistant, Institute of Psychiatry, King's College London, U.K.
- 2000 – 2006 Various positions in the commercial IT sector (senior technical roles).  
2000: Canterbury Health Limited, Christchurch, N.Z. 2000-2002, National Bank of New Zealand, Wellington, N.Z. 2003-2006: Credit Agricole Indosuez, London, U.K.

## FELLOWSHIPS AND GRANTS

- 2024-2026: Raynor Foundation (USA). Value: \$1 million
- 2023-2028: National Institute of Health (USA) R01 (co-I). Value \$4 million
- 2023-2026: Wellcome Trust Mental Health Award (PI). Value €1 million
- 2022-2027: Horizon Europe grant (Co-I and WP lead). Value €10 million
- 2022-2027: NIH R01 grant (co-I). Value: US\$4 million
- 2021-2026: European Research Council consolidator grant (PI). Value €2 million
- 2020-2024: Radboudumc Principal Investigator predicate. Competitive internal call €400K over 5 years
- 2020-2022: Wellcome Trust Digital Innovator award (PI). Value: €614,357
- 2020-2024: Radboudumc junior researcher round (PI): Competitive internal call, €240,000 over 4 years
- 2017-2019: Radboudumc junior Principal Investigator. Competitive internal call, €180,000 over 3 years
- 2016-2021: Dutch Organization for Scientific Research, VIDI personal fellowship. Value: €800,000
- 2021-2026: UK Medical Research Council (MRC) Industry Collaboration Agreement (collab.) £1.3 mil.
- 2016-2021: UK MRC Experimental Medicine Challenge grant (co-PI). Value: £2.7 million
- 2014: DFG Heisenberg Professorship. (Collaborator, PI: C. Ecker) Value: ~€500,000
- 2013: MRC (UK) Strategic Skills (PI). Shortlisted (top 5%) but declined. Requested value: £330,000
- 2013: MRC New investigator award (co-Investigator, PI: M. O'Sullivan). Award value: £403,313
- 2013: MRC Research grant (collaborator, PI: A. Egerton). Award value: £787,060
- 2013: Industrial post-doctoral fellowship sponsored by Roche (co-PI). Award value: £154,013
- 2013: Industrial grant sponsored by Janssen (co-PI) Award value: £148,073
- 2013: Industrial grant sponsored by Johnson & Johnson (co-PI) Award value: £37,373
- 2012: Industrial grant sponsored by Janssen (co-Investigator, PI: S. Williams). Award value: ~£100,000
- 2011: MRC Developmental Pathway Funding (co-Investigator, PI: S. Williams). Award value: £393,715
- 2011: MRC EME (co-Investigator, PI: S. Williams). Shortlisted (top 2%) but declined. Value: £603,093
- 2011: MRC Neuroscience and Mental Health Board (collaborator, PI: A. Mechelli). Value: £205,228

- 2008: King's College London Annual Fund. Value: tuition fees and stipend (£48,000 over three years)
- 2008: King's College London Overseas Research Student Award. Value: international tuition top-up
- 2008: King's College London MMW studentship. Value: tuition fees and stipend of £14,700 for one year

## **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- Supervised 17 PhD candidates including 11 completed: William Petterson-Yeo (2013), Derek Andrews (2017), Richard Parker (2018), Leon Askman (2017), Ismael Huertas (2018), Divya Brundavanum (2019), Thomas Wolfers (2019, cum laude), Richard Dinga (2020), Mariam Zabihi (2022) Charlotte Fraza (2025, cum laude), Saige Rutherford (2025) and 7 current (Christina Isakoglou, Emin Serin, Ramona Cirstian, Loran Knol, Imogen Leaning, Linda Schlueter, Bram Meijer).
- Supervised 12 postdocs: Alice Chavanne (2024-), Barbora Rehak-Buckova (2023-), Johanna Bayer (2023-), Antoine Bernas (2023-), Amanda Worker (2019-2022), Pierre Berthet (2019-2022), Nathalie Holz (2019-2020), Hannah Savage (2021-2024) Seyed Kia (2017-21), Richard Dinga (2019-21), Maria Rosa (2013), William Pettersson-Yeo (2013-14)

## **TEACHING AND SUPERVISION ACTIVITIES**

Accredited with Dutch national teaching certificate (BKO; 'basiskwalificatie onderwijs') since 2017

Awarded *Ius Promovendi* in 2020 (the right to promote PhD students in the Netherlands)

2020 – present Coordinator – Big Data in Biomedical Sciences (MSc level), RadboudUMC, Netherlands

2014 – present Coordinator – Advanced Mathematics (MSc level), Radboud University, Netherlands

2018 – present Lecturer – Neuroimaging II: Haemodynamics, Radboud University, Netherlands

2018 – present Lecturer – Donders Toolkit: Advanced (f)MRI, Radboud University, Netherlands

2016 – present Lecturer – Donders Toolkit: Neuroimaging, Radboud University, Netherlands

2016 – present Lecturer – Computational Psychiatry Course, ETH Zurich, Switzerland

2011 – 2014 Lecturer – Neuroimaging MSc programme, King's College London, U.K.

2011 – 2015 Lecturer – Pattern Recognition in Neuroimaging Course, University College London, U.K.

## **ORGANISATION OF SCIENTIFIC MEETINGS**

2018-2021 Special Area Team (Biomedical Signal Processing) European Signal Processing Conference, ~3000 participants

2018-2022 Workshop on Machine Learning in Clinical Neuroimaging, satellite for Medical Image Computing & Computer Assisted Intervention conference, 3000 participants

2014-2018 Programme committee, Workshop on Bayesian & Graphical Models for Biomedical Imaging, Massachusetts Institute of Technology, Cambridge, MA, U.S.A. (~100 participants)

2013 Symposium Organiser, "Methods for discovering neuroimaging-based biomarkers in mental disorders" European Congress of Psychiatry, Nice, France (~200 participants).

2011-2018 Programme Committee, Int. Workshop in Pattern Recognition in Neuroimaging. Seoul (~300 participants), London (~250), Pittsburgh (~200), Tuebingen (~200 participants)

2012 International Workshop in Pattern Recognition in Neuroimaging, U.K. (~250 participants)

2010 Brain Decoding Workshop, International Conference of Pattern Recognition, Turkey (~150)

## **INSTITUTIONAL RESPONSIBILITIES**

2024 – present Member of the steering group for Radboudumc Sector Plan: AI and data-driven innovation

2024 – present Member of RadboudAI steering committee for AI across Radboud University campus

2016 – present Faculty member, Radboud University Medical Centre, Netherlands

2018 – 2022 Personal Grants Committee member, Radboud University Medical Centre, Netherlands

2014 – present Site contact and methodological advisor, ENIGMA and EU-AIMS consortia

2014 – present Personal Tutor, Radboud University Medical Centre, Netherlands

2011 – 2014 Personal Tutor, King's College London, U.K.

## **POSITIONS OF TRUST**

2023 – present Senior editor, eLife

2023 – present Scientific Advisory Board, NeuroSpin (the leading centre for brain imaging in France)

2020 – present Scientific Advisory Board, PsyCare project (€9million French government funded project)

2023 – present Senior member Editorial Board for eLife

2019 – 2024 Review Board for European Union ERA-NET NEURON funding programme

2021 – present Editorial Board for Neuroimage: Reports

2021 – present Associate Editor. Frontiers in Neuroimaging

2019 Senior Programme Committee International Joint Conference on Artificial Intelligence.  
 2016 – present Programme Committee for Neural Information Processing Systems (NeurIPS)  
 2016 – present Programme Committee for Artificial Intelligence and Statistics (AISTATS)  
 2016 – present Programme Committee for the International Conference on Machine Learning (ICML)  
 2010 – 2017 Programme Committee for the IEEE workshop on Pattern recognition in Neuroimaging  
 2014 – 2016 Programme Committee Int. Workshop Bayesian and Graphical Models Biomedical Imaging  
 Continuous Reviewer for many funding bodies including the European Research Council, UK Wellcome Trust, DFG, UK Medical Research Council and top-tier journals.

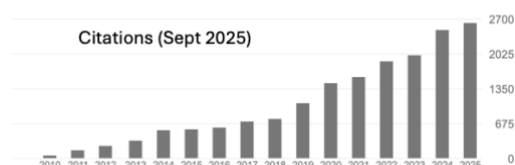
## OTHER

Developed and maintain multiple software packages for neuroimaging data analysis used by thousands of researchers worldwide, e.g.: [www.github.com/amarquand](https://www.github.com/amarquand), [www.github.com/predictive-clinical-neuroscience](https://www.github.com/predictive-clinical-neuroscience), [www.mlul.cs.ucl.ac.uk/pronto/](https://www.mlul.cs.ucl.ac.uk/pronto/) and <https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/OtherSoftware>.

## CAREER BREAKS

2000-2006 After my undergraduate degree I spent several years working in the commercial IT sector.

**PUBLICATION SUMMARY:** H-Index = 68, >17,000 citations (Google Scholar)



## SELECTED PUBLICATIONS

Full list: [Google Scholar](https://scholar.google.com/citations?user=amarquand)

Numbers in brackets indicate 5- year impact factor for the publishing journal.

- Holz, N. E., M. Zabihi, S. M. Kia, M. Monninger, P. M. Aggensteiner, S. Siehl, D. L. Floris, A. L. W. Bokde, S. Desrivieres, H. Flor, A. Grigis, H. Garavan, P. Gowland, A. Heinz, R. Bruhl, J. L. Martinot, M. P. Martinot, D. P. Orfanos, T. Paus, L. Poustka, J. H. Frohner, M. N. Smolka, N. Vaidya, H. Walter, R. Whelan, G. Schumann, A. Meyer-Lindenberg, D. Brandeis, J. K. Buitelaar, F. Nees, C. Beckmann, Imagen Consortium, T. Banaschewski, **Marquand, A.F.** A stable and replicable neural signature of lifespan adversity in the adult brain. *Nature Neuroscience* 26, 1603-12 (2023). DOI: 10.1038/s41593-023-01410-8. [27.7]
- Segal A, Parkes L, Aquino K, Kia SM, Wolfers T, Franke B, Hoogman M, Beckmann CF, Westlye LT, Andreassen OA, Zalesky A, Harrison BJ, Davey CG, Soriano-Mas C, Cardoner N, Tieg J, Yücel M, Braganza L, Suo C, Berk M, Cotton S, Bellgrove MA, **Marquand AF\***, Fornito A.\* (2023) Regional, circuit and network heterogeneity of brain abnormalities in psychiatric disorders. *Nat Neurosci.* 26(9):1613-1629. doi: 10.1038/s41593-023-01404-6. [27.7]
- Xu J, Liu N, Polemiti E, Garcia-Mondragon L, Tang J, Liu X, Lett T, Yu L, Nöthen MM, Feng J, Yu C, **Marquand A\***, Schumann G\*; the environMENTAL Consortium (2023) Effects of urban living environments on mental health in adults. *Nature Medicine* Jun;29(6):1456-1467. doi: 10.1038/s41591-023-02365-w [82.9]
- Wolfers, T., Doan, N. T., Kaufmann, T., Alnæs, D. Moberget, T., Agartz, I., Buitelaar, J. K., Ueland, T., Melle, I., Franke, B, Andreassen, O. A., Beckmann, C. F., Westlye, L. T., **Marquand A. F.** (2018) Mapping the heterogeneous phenotype of schizophrenia and bipolar disorder using normative models *JAMA Psychiatry* 75: 1146-1155 [16.6]
- Marquand, A. F.**, Kia, S., Zabihi, M., Wolfers, T., Buitelaar, J., Beckmann, C. F. (2019) Conceptualizing mental disorders as deviations from normative functioning. *Molecular Psychiatry*, in press [12.4]
- Marquand, A.F.**, Rezek, I., Buitelaar, J., Beckmann, C.F. Understanding Heterogeneity in clinical cohorts using normative models: beyond case control studies. (2016) *Biological Psychiatry* 80: 552-561. [10.3]
- Wolfers, T., Buitelaar, J., Beckmann, C., Franke, B., **Marquand, A.** (2015) From estimating activation locality to predicting disorder: A review of pattern recognition for neuroimaging-based psychiatric diagnostics. *Neuroscience and Biobehavioral Reviews* 57, 328-49. [11.1]

8. Dinga, R., Schmaal, L. Penninx, B., van Tol, M. J. Veltman, D. J., van Velzen, L., Mennes, M., van der Wee, N., **Marquand A.** (2019) Evaluating the evidence for biotypes of depression: Methodological replication and extension of Drysdale et al 2017 *NeuroImage: Clinical*, in press [4.8]
9. **Marquand, A. F.**, Haak, K. V., Beckmann, C. F. (2017) Functional corticostriatal connection topographies predict goal directed behaviour in humans. *Nat Hum Behav.* 1(8):0146
10. **Marquand A. F.**, Wolfers, T., Mennes, M., Buitelaar, J. K., Beckmann, C. F. (2016) Beyond lumping and splitting: a review of computational approaches for stratifying psychiatric disorders. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* [6.5]

## BOOK CHAPTERS

1. Marquand, A., Dinga, R., Wolfers, T. Phenomapping: methods and measures for deconstructing diagnosis in psychiatry (2019). In: *Personalized and Predictive Psychiatry: Big Data Analytics in Mental Health*. Springer Nature
2. Andrews, D., Marquand, A., Ecker, C. and McAlonan, G Using Pattern Classification to Identify Brain Imaging Markers in Autism Spectrum Disorder. *Biomarkers in Psychiatry*, Springer Nature
3. Marquand, A., Kia, S. (2019). Linear Classification Methods. In: *Machine Learning: methods and applications to brain disorders*. Elsevier (in press)
3. Doyle, O. & Marquand, A. (2015) *Machine Learning. Basic Neuroimaging: A guide to the methods and their applications*. Editors: Veronese, M., Brigadoi, S., Doyle, O. (2018). OpenSpace publishers
4. Ecker, C. & Marquand, A. (2015) *Neuroimaging Biomarkers for Autism Spectrum Disorder*. In *Autism Imaging and Devices*. Editors: Casanova, M., El-Baz, A. & Suri, J. (In press)

## SELECTED INVITED LECTURES AND PRESENTATIONS

- 2024 Lecture at the ‘Future of the Mind’ symposium directed at policy-makers
- 2022 Lecture at 2022 Lorenz symposium, University of Leiden, Netherlands
- 2019 Lecture at the 2019 meeting for the Organisation for Human Brain Mapping (OHBM), Rome
- 2019 Keynote lecture at Neuroscience Society, Trinity College Dublin
- 2019 Keynote lecture at the Behavioural and Cognitive Neuroscience Symposium, Groningen, Netherlands
- 2019 Lecture at the Dutch Neuroscience Meeting, Lunteren, Netherlands
- 2018 Lecture at the Medical Imaging and Computer Aided Intervention (MICCAI) conference, Granada
- 2017 Keynote lecture at the Amsterdam eScience symposium, Amsterdam
- 2017 Keynote lecture at the Donders Discussions conference, Nijmegen
- 2017 Keynote lecture at the Presidential symposium of the Society for Psychophysiological Research, at the Hofberg palace, Vienna.
- 2016 Invited lecture at the Transcontinental Computational Psychiatry Workshop
- 2015 Lecture at the Dutch Psychiatric Association annual meeting. Maastricht
- 2014 Lecture at the International Workshop on Pattern Recognition and Neuroimaging, Max Planck Institute, Tuebingen, Germany
- 2013 Lecture at the Medical Engineering Centres (U.K.), Annual Meeting, York, U.K
- 2013 Lecture at the European Psychiatric Association Annual Meeting, Nice, France

## PRIZES AND AWARDS

- 2025: Radboud University Medical Centre, Open Science Award.
- 2023: Organization for Human Brain Mapping [replication award](#) (Laidi et al 2022) for the best replication study showing the ‘highest standards of experimental design, data collection and statistical analysis’
- 2019: Organization for Human Brain Mapping [replication award](#) (Dinga et al 2019).
- 2014: Submitted by King’s College London as a top early career researcher to the Research Excellence Framework assessment 2014 (one of only 65 early career researchers submitted by the college)
- 2013: Medical Engineering Centres U.K. annual meeting best paper award
- 2010: National Health Service (NHS) healthcare, excellence and leadership Innovation of the year award
- 2009: Guarantors of Brain travel award (£900)

## PUBLIC ENGAGEMENT, POLICY AND OUTREACH

- 2024 Board member for the Nature Commission: ‘Earth, Brain, Health’ (forthcoming, autumn 2024).
- 2024 Presentation at the ‘Future of the Mind’ public symposium, Donders Institute, Netherlands.
- 2023-4 Keynote lecture at symposium for AI in the mental health service, Utrecht and Amsterdam, NL
- 2023 Interviews with Dutch public radio 1 (NPO1), and television (Editie:NL)
- 2023 Interviews in public magazines ‘AG: Connect’ and ‘de Psychiater’ (the Psychiatrist)
- 2022 Keynote lecture at the 2022 Amsterdam Public Health Event