

## Saad Jbabdi, PhD

Professor of Biomedical Engineering  
Wellcome Centre for Integrative Neuroimaging, FMRIB, University of Oxford  
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### Academic positions

2021- Professor of Biomedical Engineering  
University of Oxford  
2017-current Stipendiary lecturer in Engineering  
St Hilda's College, Oxford  
2016-current Head of Diffusion Analysis  
WIN/FMRIB Centre, Oxford, UK  
2015-2021 Associate Professor  
University of Oxford  
2014-2019: MRC Career Development Fellow  
FMRIB Centre, Oxford, UK  
2009-2013: Research Associate  
FMRIB Centre, Oxford, UK  
2006-2009: Post-doctoral Researcher  
FMRIB Centre, Oxford, UK  
2003-2006: PhD candidate  
INSERM/Ecole Centrale Paris, France

### Non-Academic position

May-Dec 2002  
General Electric Medical Systems, France  
X-Ray tomography

### Education

Ph.D. NeuroImaging, *Ecole Centrale Paris*, 2007  
M.Sc. Image and signal processing, *Ecole Normale Supérieure de Cachan*, 2002  
M.Sc. Engineering and Applied Mathematics, *Ecole Centrale Paris*, 2002

### Grants/Fellowships

2023-2028 NIH UM1 BRAIN CONNECTS, Center for Mesoscale Connectomics: A Multimodal, Cross species Approach, \$701K USD, Role=**PI (Oxford)**  
2021-2026 Wellcome Senior Research Fellowship, £1.2M, Role=**PI**  
2020-2025 Wellcome Collaborative Award, £3.8M, Role=**Co-Lead**  
2017-2020 NIH Supplement, "HCP Aging", \$563K USD. Role=**PI**  
2015 MRC Proximity to discovery, "Deep learning knowledge exchange", £3.4K GBP Role=**PI**  
2014-2019 MRC Career Development Award, "Imaging the spatial organisation of brain connections", ~£800K GBP. Role = **PI**  
2017-2020 MRC grant, "Developing slow-wave activity saturation as a marker of depth of anaesthesia", £546K GBP. Role=**Co-investigator**  
2014-2017 EPSRC grant, "Anatomy-driven brain connectivity mapping", £550K GBP. Role=**Co-investigator**  
2014-2015 MRC Confidence in concept grant, £34K GBP. Role=**Co-investigator**  
2009-2014 Canadian Institute of Health Research Grant, (~\$600K CAD). Role=**Co-investigator**  
2009-2012 MRC Grant, "Biophysical modelling of white matter structure", ~£400K GBP. Role=**Co-investigator**  
2005 Fondation ARC (France), grant, €12K EUR. Role=**PI**  
1999-2002 Studentship, Moroccan government (~8K GBP).

### Awards and prizes

2021 Good citizen award (Contribution to lab life during a pandemic), WIN/FMRIB, Oxford  
2020 Good citizen award (Teaching), WIN/FMRIB, Oxford  
2017 Thomas Willis Intermediate Career Researcher prize (first prize, Oxford, £1000)  
2013 Thomas Willis Junior Career Researcher prize (runner up, Oxford, £500)  
2007 Best Methods Paper Award in Neuroimage, OHBM (Chicago, USA)  
2006 Best Poster Award, ISMRM (Seattle, USA)  
1997 Winner of the National Olympiads of Mathematics (prize=\$10,000 USD), Morocco

### Intellectual Property

*Perception Loss Detection*. Co-Inventor. UK Patent (GB1209638.4)

### Journals-related activities

Reviewing Editor at eLife

Former Associate Editor at PLoS Computational Biology.  
Former member of the editorial board at Neuroimage.  
Member of the programme committee for CDMRI (a MICCAI workshop).  
Editor of a 2018 Neuroimage Special Issue on Brain Parcellation  
Ad hoc journal reviewer (including Science, Nature Neuro/Comm/Methods, eLife, PNAS, J Neuroscience, Neuroimage, MRM, etc.)  
Regular reviewer of grant applications both nationally and internationally.

### **Teaching**

2017 – present	Lecturer in Engineering – Mathematics, St Hilda's college/ University of Oxford
2014 – 2020	Lecturer – Applied Maths, Doctoral Training Centre, University of Oxford
2007 – present	Lecturer and organiser – Data analysis, FMRIB Graduate Programme, University of Oxford
2016 – 2023	Lecturer – Intro to Maths in Matlab, Biomedical Sciences, University of Oxford
2003 – 2006	Lecturer – Pure Mathematics, Ecole Centrale Paris, France

### **Supervision**

Supervised or is (co-)supervising 7 MSc students, 13 PhD students (8 graduated), and 10 Post-docs (3 now have secured tenured positions).  
Examined 11/10 DPhil transfers/confirmations, 10 DPhil viva voce, and 6 external PhDs.

### **Organisation of scientific meetings**

Organised (and lectured) PyTreat: Python programming retreat. Oxford 2018, 2020, 2021  
Organised (and lectured) workshop at British Neuroscience Symposium (UK) 2009/2013/2015  
Organised (and lectured) an ESMRMB workshop (Oxford, UK) 2010  
Organised (and lectured) QBIN workshop (Montreal, Canada) 2010  
Co-organiser and teacher at the annual FSL course (2007-2016) + Organised mini-FSL courses in Mannheim 2009, Montreal 2009, Montreal 2010, Pécs (Hungary) 2012

### **Institutional responsibilities**

2019 – present	Public Engagement with Primary schools science advisor, WIN/FMRIB, Oxford
2015 – 2018	Graduate Studies Committee, Clinical Neurosciences, University of Oxford
2017 – present	Graduate Student Advisor, St Hilda's college, University of Oxford
2006 – 2012	Seminars organiser, FMRIB Centre, University of Oxford

### **Public engagement**

Primary school activities/workshops (Oxford 2019 and Banbury 2022)  
Play about history of neuroscience (actor), Oxford 2018/2019  
Talking about brains to pre-school children (4 y.o.), Sanfield Nursery, Oxford (2017)  
Oxford Technology Showcase, Said Business school, Oxford (2016)  
SET for Britain, sharing science with MPs, Westminster (2016)  
Public lecture, St Edmund Hall College, Oxford (2015)  
Public lecture, St Cross College, Oxford (2015)  
Oxford Alumni meeting, Oxford (2013)

### **Publications:**

Total # of journal publications (incl. peer-reviewed and preprints) = 156  
Google scholar h-index = 84  
Up-to-date publications list: [www.fmrib.ox.ac.uk/~saad/publications.html](http://www.fmrib.ox.ac.uk/~saad/publications.html)