

Charlotte Jane Stagg MRCP DPhil

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Current Academic Positions

2018 – date	Professor of Human Neurophysiology University of Oxford
2014 – date	Wellcome Trust / Royal Society Sir Henry Dale Fellow & Head, Physiological Neuroimaging Group Oxford Centre for Human Brain Activity (OHBA)
2014 – date	Honorary Research Fellow Sobell Institute for Human Neurophysiology, University College London
2014 - date	Fellow by Special Election & Director, Centre for the Creative Brain St Edmund Hall, University of Oxford

Previous Positions

2015 – 2018	Associate Professor Nuffield Department of Clinical Neurosciences
2012 – 2015	University Research Lecturer Nuffield Department of Clinical Neurosciences
2012 – 2014	Senior Postdoctoral Fellow Plasticity Group FMRIB, University of Oxford Group Head: Prof. Heidi Johansen-Berg
2010 - 2014	GSK Junior Research Fellow in Biomedical Imaging St Edmund Hall, University of Oxford
2008 - 2012	Post Doctoral Research Assistant / BRC Research Fellow Plasticity Group
Jan - Mar 2011	Visiting Researcher Department of Radiology University of Miami Advisor: Prof. Andrew Maudsley
Feb - May 2010	Visiting Researcher Sobell Department of Motor Neuroscience University College London Advisor: Prof. John Rothwell

Education

2012-2017	Diploma – Pure Maths and Statistics	Open University
2005-2009	DPhil	University of Oxford
2005-2006	Membership (MRCP)	Royal College of Physicians, London
1997-2003	MChB (Preclinical & Clinical Honours)	University of Bristol
1999-2000	BSc in Physiology (1 st Class)	University of Bristol

Current Research Funding

Total: £ 3,431,488.65
Total as PI: £ 2,507,621.45

- 2017-2020 BBSRC: “Flexible perception: functional plasticity mechanisms in the human brain” (Oxford PI: Stagg; Cambridge PI: Kourtzi), £484,981.04
- 2017-2020 MRC Skills Development Fellowship – Ms Lea-Carnall (Sponsors: Terry (Exeter), El-Deredy (Manchester), Stagg (Oxford), £312,635.20
- 2017-2019 Wellcome Trust Enhancement to Sir Henry Dale Fellowship: “Understanding the functional role of GABA across the human motor network” (PI: Stagg), £210,641.00
- 2016-2020 Engineering and Physical Sciences Research Council (EPSRC): “Ultrasonic neuromodulation of deep grey matter structures for the non-invasive treatment of neurological disorders” (Joint Grant, Oxford PI: Stagg; UCL PI: Treeby), £648,780.00
- 2016-2018 Wellcome Trust Institutional Strategic Support Fund: “Developing world-class neurophysiological resources at Oxford” (PI: Stagg), £76,346
- 2014-2019 Wellcome Trust / Royal Society Sir Henry Dale Fellowship: “Exploring the role of inhibition in human motor plasticity”, (PI: Stagg) £838,838

Peer Reviewed Publications

ORCID: orcid.org/0000-0002-5542-5036

Scopus H-index: 28

Number of first author publications	24	[7 reviews]
Number of last author publications	16	[6 reviews]

For a full list please see [here](#).

Selected awards and prizes

- 2017 British Neuroscience Association Sieratzki UK-Israel Early Career Prize for Advances in Neuroscience
Awarded to the outstanding UK Neuroscientist (from 4 to 8 years FTE post PhD)
- 2017 4th World Federation for NeuroRehabilitation Franz Gerstenbrand Award
Awarded for an outstanding rehabilitation project that has benefitted patients

- 2015 Nominated to AcademiaNet for leading women scientists
- 2015 Associate Professorship
Nuffield Department of Clinical Neurosciences, University of Oxford
- 2012 University Research Lecturership
Nuffield Department of Clinical Neurosciences, University of Oxford
- 2011 Organisation of Human Brain Mapping Young Investigator Travel Award
Human Brain Mapping Conference, Quebec City
- 2009 Young Investigator Award for Transcranial Magnetic Stimulation (TMS)
Magstim/UCL TMS Summer School
- 2009 Guarantors of Brain Travel Award
Human Brain Mapping Conference, San Francisco
- 2008 Prize for Best Poster
3rd International Conference on Transcranial Stimulation
- 2008 Young Investigator Award
European Charcot Foundation
- 2007 Guarantors of Brain Young Investigators Award
Cumberland Conference on Stroke Rehabilitation, Windsor
- 2007 Guarantors of Brain Travel Award
Organisation of Human Brain Mapping Young Investigator Travel Award
Human Brain Mapping Conference, Chicago
- 2003 Green-Armytage Prize for Obstetrics & Gynaecology, University of Bristol
- 2003 British Medical and Dental Students' Trust Elective Bursary
- 2000 Physiological Society Prize for best overall performance in final examinations

Selected Talks

I have given more than 75 talks at university seminar series and international conferences around the world. Significant recent invitations to speak, including keynote talks, at major international conferences are listed here.

Combining MR Spectroscopy and non-invasive brain stimulation: towards a causal understanding of motor plasticity. Minerva Symposium on MR Spectroscopy and Molecular Imaging, Weizmann Institute, Israel, 2019 [Keynote]

The role of inhibition in motor plasticity. Neural Control of Movement Conference, Santa Fe, NM, USA, 2018 [Platform Presentation]

GABA regulation in brain metabolism and its links to learning. 13th International Conference on Brain Energy Metabolism, Valdivia, Chile, 2018 [Platform Presentation]

The Neurochemistry of learning, and relearning, motor skills. 26th Israel Society for Neuroscience Annual Meeting, Eilat, Israel, 2017 [Platform Presentation]

New approaches in non-invasive brain stimulation. 11th ICME International Conference on Complex Medical Engineering, Shenzhen, China, 2017 [Keynote]

Towards causality: combining non-invasive brain stimulation and neuroimaging to understand neuroplasticity. 2nd European Conference on Brain Stimulation in Psychiatry, Leipzig, Germany, 2017 [Platform Presentation]

The plastic brain: neural changes underpinning learning of motor skills in health and disease. Royal Society Meeting of Minds Conference, London, UK [Platform Presentation]

MR Spectroscopy as a Biomarker of Non-invasive Brain Stimulation Effects. International Neuromodulation Society Annual Meeting, Edinburgh, 2017 [Platform Presentation]

Towards causality: combining non-invasive brain stimulation and neuroimaging to understand neuroplasticity. BrainStim Meeting, Vancouver, Canada, 2017 [Platform Presentation]

Combining non-invasive brain stimulation with magnetic resonance imaging and spectroscopy to probe motor learning. BNA2017: Festival of Neuroscience, Birmingham, UK, 2017 [Platform Presentation]

Studying motor plasticity using multimodal neuroimaging and transcranial stimulation. Neuroscience Symposium, University of Leipzig, Leipzig, Germany, 2017 [Platform Presentation]

The role of inhibition in motor performance and learning. 2nd International Brain Stimulation Conference, Barcelona, Spain, 2017 [Platform Presentation]

In-vivo studies of glutamate & GABA metabolism in brain plasticity and in neurological recovery. James S. McDonnell Foundation Symposium, New York, USA, 2016 [Platform Presentation]

Non-invasive stimulation practices for movement disorders. Neurorehabilitation in Movement Disorders, London, UK, 2016 [Platform Presentation]

Combining tES with MR – novel insights into the mechanisms underlying plasticity in humans. 6th International Conference on Transcranial Brain Stimulation, Goettingen, Germany, 2016 [Platform Presentation]

Understanding and modulating long-range functional connectivity using MR Imaging and Non-invasive Brain Stimulation. Organisation for Human Brain Mapping Conference, Geneva, Switzerland, 2016 [Platform Presentation]

Long-term clinical improvements following ipsilesional anodal tDCS in chronic stroke. BrainStim Meeting, Geneva, Switzerland, 2016 [Platform Presentation]

Exploring the mechanisms of sensorimotor plasticity in health and after stroke. Cambridge University Department of Psychology Seminar Series, UK, 2016 [Departmental Seminar]

Multimodal approaches to understanding and driving plasticity. Geneva Neuroscience and Biotech, Geneva, Switzerland, 2016 [Departmental Seminar]

Studying motor plasticity using non-invasive brain stimulation. Magstim Neuroscience Conference, Oxford, UK, 2015 [Platform Presentation]

Transcranial direct current stimulation: a potential new tool for stroke rehabilitation? 3rd North American TMS Meeting, Montreal, Canada 2015 [Platform Presentation]

Transcranial direct current stimulation in treatment after stroke. German Neurophysiological Meeting, Tübingen, Germany 2015 [Platform Presentation]

Multimodal approaches to understanding and driving motor plasticity. Amsterdam Brain Centre Symposium, The Netherlands, 2015 [Departmental Seminar]

Manipulating plasticity: enhancing the effects of training. UK Stroke Forum, Harrogate, UK, 2014 [Platform Presentation]

The application of transcranial direct current stimulation in stroke rehabilitation. German Neurological Society Annual Meeting, Munich, Germany, 2014 [Platform Presentation]

Magnetic Resonance Spectroscopy as a tool to study the role of GABA in motor plasticity and learning. Physiological Society Annual Meeting, London, UK, 2014 [Platform Presentation]

MRS in learning and Recovery. Educational Session on Brain Stimulation, OHBM Annual Conference, Hamburg, Germany, 2014 [Educational Lecture]

Magnetic Resonance Spectroscopy of the Brain. Donders Advanced MRI course, The Netherlands, 2014 [Educational Lecture]

Using multimodal approaches to understand the role of inhibition in human motor plasticity. NIH Seminar Series, Washington DC, USA, 2014 [Departmental Seminar]

Using multimodal approaches to understand the role of inhibition in human motor plasticity. MRRC Seminar Series, Yale University, New Haven, USA, 2014 [Departmental Seminar]

The role of inhibition in human motor plasticity. University of Nottingham Brain and Body Centre annual meeting "Inhibition and disinhibition in health and disorder" 2014 [Keynote]

Transcranial stimulation as a potential adjunct therapy in rehabilitation after stroke. Neurorehabilitation: facts, fears and the future, Reading, UK, 2014 [Platform Presentation]

Towards a mechanistic understanding of transcranial stimulation as a tool for rehabilitation. Neurokolloquium, University of Goettingen, Germany, 2014 [Departmental Seminar]

Relating local GABA concentration to network-level connectivity. 2nd GABA MRS Symposium, Cardiff, UK, 2013 [Platform Presentation]

Neurorehabilitation of stroke patients with motor deficits. Non-invasive Electrical Brain Stimulation - Basic and Applied Research Workshop, Brescia, Italy, 2013 [Platform Presentation]

Interfacing MR-spectroscopy with transcranial stimulation. PhD Course on Multimodal Imaging, Copenhagen, Denmark, 2013 [Educational Lecture]

Imaging the neurotransmitter effects of transcranial stimulation. British Neuroscience Association Meeting, London, UK, 2013 [Platform Presentation]

Reviewing

2018 – 2021	Editorial Board, <i>Brain Stimulation</i>
2016 – 2018	Section Editor, Springer's Current Behavioral Neuroscience Reports
2010 – 2016	Co-author, <i>Carphology</i> , <i>Practical Neurology</i>

Ad-hoc reviewer for: Auckland Medical Research Foundation; Alzheimer Forschung Initiative; Biotechnology and Biological Sciences Research Council, UK (BBSRC); European Research Council (ERC); European Science Foundation (ESF); Academy of Finland; Medical Research Council, UK (MRC); Research Council of the Académie Universitaire 'Louvain'; Dr Hadwen Trust; Sir Jules Thorne Charitable Trust; Wellcome Trust; NIHR Neurological Disorders portfolio

American Journal of Neuroradiology; Archives of General Psychiatry; Biological Psychiatry; Brain; Brain Stimulation; Brain Topography; Cerebral Cortex; Cortex; Clinical Rehabilitation; Clinical Neurophysiology; Current Biology; eLife; European Journal of Neuroscience; Experimental Brain Research; Human Brain Mapping; Journal of

Cognitive Neuroscience; Journal of Neurophysiology; Journal of Neuroscience; Journal of Neurological Sciences; JNNP; Journal of Physiology; Journal of Visualised Experiments; Magnetic Resonance in Medicine; Nature Communications; NeuroImage; Neuroscience Letters; Proceedings of the National Academy of Sciences of the USA (PNAS); Stroke.

Selected recent public engagement and media interviews

- 2017 Interview for *BBC Radio Oxford*
- 2017 Plenary Speaker, Stroke Association Stroke Assembly, Wales.
- 2017 *Secrets of the Brain* Lambent Productions
- 2017 *Andrew Marr: My Brain and Me* BBC2 14/02/17
- 2016 Interview for *South Korean TV*
- 2016 Curiosity Champion, Curiosity Box (<http://www.curiosity-box.com>)
- 2016 Interview for *MIT Technology Review*
- 2016 Plenary Speaker – “Can the brain rewire itself?” Stroke Association Annual Stroke Assembly Meetings
- 2016 Interview for *BBC South Today*, BBC1 18/03/16
- 2015 The Next Big Thing, Royal Society / Science Museum Lates Event, London
- 2014 Interview for *The Times*
- 2014 Interview for *Trust Me, I’m a Doctor*, BBC Two.
- 2014 Interview for *Inside Science*, BBC Radio 4.
- 2014 Neurorehabilitation: facts, fears and the future, West Berkshire Neurological Alliance, Reading, UK