

Dr. Oliver James Hulme

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Academic Research and Employment

2011-Present Senior Researcher and leader of Reward & Homeostasis Group, Danish Research Centre for Magnetic Resonance, Hvidovre Hospital, Denmark

2010-2011 Visiting Researcher, Psychology Department, University of British Columbia, Canada

2008-Present Honorary Fellow, Department of Anatomy and Developmental Biology, University College London, UK

2010-Aug 2011 Lecturer, Zoology Department & Psychology Department, University of British Columbia, Canada
Comparative Neurobiology: Cellular, Systems and Cognitive Neuroscience [\[website\]](#)
Introductory Statistics: Analysis of Behavioural Data [\[website\]](#)

2009 Visiting Scholar, Welsh Institute of Cognitive Neuroscience, Bangor University, UK
Foundations of Hedonic Psychology and Neuroscience

2007-2008 Wellcome Trust Postdoctoral Fellow in Cognitive Neuroscience, University College London, UK
Neural and Computational Basis of Sensorial, Motivational and Emotional Saliency in the Visual System

Education

2003-2006 PhD in Neuroimaging, with Prof. S. Zeki FRS and Prof. K. Friston FRS, University College London, UK
Neuroimaging of Visual Consciousness: Visibility, Invisibility, and Reportability [\[thesis\]](#)
Examiners: Prof Mike Morgan FRS, Dr Daniel Glaser

2001-2002 Special Status Student, Harvard University and Massachusetts Institute of Technology, USA
Affective Neuroscience, Visual Neuroscience, Psychology Methods, Philosophy of Mind, Cognitive Psychology

1998-2001 M.A. Physiological Sciences, Lady Margaret Hall, University of Oxford, UK
Equivalent of major in Neuroscience and Experimental Psychology (2:1)

1985-1998 A-levels, Cheadle Hulme School, Manchester, UK
Physics (A), Chemistry (A), Biology (A), General Studies (A), Prizes awarded in all science subjects

Scholarships and Grants

£563K (5.39 million kr) ARLA, OmniSam: The Omnibus Satiety Metric, *Project Grant*

£74K (0.7 million kr) Lundbeck Fonden, Bypassing Appetite, *Project Grant*

£113K (1 million kr) Lundbeck Fonden, *Funding for PhD studentship*

£170K (1.55 million kr) Danish Research Council (FSS), *Postdoctoral fellowship*

£2K (17,000 kr) Welsh Institute of Cognitive Neuroscience, Bangor University, UK, *Visiting Scholarship*

£440K (3.75 million kr) Wellcome Trust Project Grant, UK, *Researcher Co-investigator*

£1K (8,500 kr) Advanced Centre for Computational Neuroscience, Germany, *Workshop Scholarship*

£3K (25,500 kr) Bogue Fellowship, University College London, UK, *Travel Scholarship*

£1.5K (12,700 kr) Brain Trust Travel Awards (x3), University College London, UK, *Travel Scholarship*

£1.5K (12,700 kr) Institute for Pure and Applied Math, UCLA, USA, *Workshop Scholarship*

£500 (4,250 kr) Economic Social Research Council, Math. of Complex Systems, Warwick University, UK, *Scholarship*
£42K (360,000 kr) Medical Research Council, UK, *PhD Studentship*

Publications

Hulme, O.J., & Madsen, K.M. Reward and the Predictive Brain, in “The Predictive Brain”

*Meder, D., *Haagensen, B., Hulme, O.J., Morville, T.M., Gelskov, S., Herz, D., Diomsina, B., Christensen, M., Madsen, K.M., Siebner, H.R., (Forthcoming) Tuning the Brake While Raising the Stake: Network Dynamics During Sequential Decision-Making *Journal of Neuroscience*

Meder, D., Madsen, K.M., Hulme, O.J., Siebner, H.R., (Forthcoming) Chasing probabilities – [Signaling negative and positive prediction errors across domains](#). *Neuroimage*

Schmoeck H, Vangkilde A, Larsen KM, Fischer E, Birkenow MR, Jepsen JR, Olesen C, Skovby F, Plessen KJ, Mørup M, Hulme O, Baaré WF, Didriksen M, Siebner HR, Werge T, Olsen L. (2015) [The Danish 22q11 research initiative](#). *BMC Psychiatry*

Laursen, H.R., Siebner, H.R., Haren, T., Madsen, K., Grønlund, R., Hulme, O.J., Henningsson, S., (2014) [Variation in the OXTR gene is associated with behavioral and neural correlates of empathic accuracy](#). *Frontiers in Behavioural Neuroscience*

Hulme, O.J., Skov, M., Chadwick M., Siebner, H.R., Ramsøy, T.Z. (2014) [Sparse encoding of Associative Density in the Hippocampus](#) *Neuroimage*

Chumbley, Köchli, Hulme, Stan Van Uum, Evan Russel, Koren, Engelman, Pizzagalli & Fehr (2014) [Stress and reward: long term cortisol exposure predicts the strength of sexual preference](#) *Physiology and Behavior*

Herz, D.M., Christensen, M.S., Bruggemann, N., Hulme, O. J., Ridderinkhof, R.K., Madsen, K.H., Siebner, H.R., (2014) [Motivational tuning of fronto-subthalamic connectivity facilitates control of action impulses](#). *Journal of Neuroscience*

Herz, D.M., Hulme, O.J., Florin, E., Christensen, M.S., Timmermann, L., Siebner, H.R., (2013) [Levodopa reinstates connectivity from prefrontal to premotor cortex during externally paced movement in Parkinson's disease](#). *Neuroimage*

van der Vegt, J.P.M., Hulme, O.J., Zittel, S., Madsen, K.H., Weiss, M.M., Buhmann, C., Bloem, B.R., Münchau, A., Siebner (2013) [Attenuated neural response to gamble outcomes in drug-naïve patients with Parkinson's Disease](#). *Brain*

Bach, D., Hulme, O., Penny, W., and Dolan, R. (2011). [The Known Unknowns: Neural Representation of Second-order Uncertainty and Ambiguity](#). *Journal of Neuroscience*.

Hulme, O.J., Whiteley, L.E., and Shipp, S. (2010). [Spatially Distributed Encoding of Covert Attentional Shifts in Human Thalamus](#). *Journal of Neurophysiology*.

Fleming, S., Whiteley, L.E., Hulme, O., Sahani, S., and Dolan, R., (2010). [Effects of Category-specific Costs on Neural Systems for Perceptual Decision-making](#). *Journal of Neurophysiology*.

Kirk, U., Hulme, O.J., Skov, M., and Christensen, M.S. (2009). [Modulation of aesthetic value by semantic context: an fMRI study](#). *Neuroimage*.

Hulme, O.J., Friston, K. and Zeki, S. (2009). [Neural Correlates of Stimulus Reportability](#). *Journal of Cognitive Neuroscience*.

Zeki, S., Hulme, O.J., Roulston, B., and Atiyah, M. (2008). [The encoding of temporally irregular and regular visual patterns in the human brain](#). *Plos One*.

Friston, K., Chu, C., Mourão-Miranda, J., Hulme, O.J., Rees, G., Penny, W., and Ashburner, J. (2008). [Bayesian Decoding of Brain Images](#). *Neuroimage*.

Hulme, O.J., and Whiteley, L. (2007). [The “Mesh” as Evidence - Model Comparison and Alternative Interpretations of Feedback](#). *Behavioural and Brain Sciences*.

Hulme, O.J. and Zeki, S. (2006). [The Sightless View: Neural Correlates of Occluded Objects](#). *Cerebral Cortex*.