

**Oxford Autumn School in Cognitive Neuroscience**  
28-29 September 2017  
Sherrington Lecture Theatre, DPAG,  
University Science Area, Off Parks Road, Oxford OX1 3PT

Thursday, September 28

---

09:25            **Welcome** | Masud Husain

**Reproducibility in science**

09:30 - 10:00    **Introduction to the morning: why and how of reproducible science**

Dorothy Bishop

Dept of Experimental Psychology, University of Oxford

10:10 - 10:40    **Selfish reasons to work reproducibly**

Florian Markowetz

Cancer Research UK Cambridge Institute, University of Cambridge

10:50 - 11:20    Break

11:20 - 11:50    **Practical tools for a reproducible workflow**

Laura Fortunato

School of Anthropology and Museum Ethnography, University of Oxford & Santa Fe Institute

12:00 - 12:30    **Practical tools for open and reproducible neuroimaging**

Tom Nichols

Big Data Institute, University of Oxford

12.30 – 13.30    Lunch break

**Motivation and disorders of motivation**

13.30 – 14.15    **Apathy and impulsivity in neurological disease: a case of Burke and Hare**

James Rowe

MRC CBU & Dept of Clinical Neurosciences, University of Cambridge

14.15 – 15.00    **Why don't you try harder? Computational phenotyping of motivation disorders**

Mathias Pessiglione

Institut du Cerveau et de la Moëlle Epinière, Paris

15.00 – 15.30    Break

15.30 – 16.15    **The impact of physical effort on value-based decision making**

Miriam Klein-Flügge

Dept of Experimental Psychology, University of Oxford

16.15 – 17.00    **Motivation and the energisation of movement**

Sanjay Manohar

Nuffield Dept of Clinical Neurosciences, University of Oxford

## **Pushing the boundaries of fMRI: new applications for old questions**

- 09.00 – 09.45 **The human brain through monkey eyes**  
Lennart Verhagen  
Dept of Experimental Psychology & WIN, University of Oxford
- 09.45 – 10.30 **Computational models: a way to link diverse findings across species in cognitive neuroscience**  
Laurence Hunt  
Dept of Psychiatry & WIN, University of Oxford
- 10.30 – 11.00 Break
- 11.00 – 11.45 **Towards causality: combining non-invasive brain stimulation and neuroimaging to understand neuroplasticity**  
Charlotte Stagg  
Nuffield Dept of Clinical Neurosciences & WIN, University of Oxford
- 11.45 – 12.30 **Women are from Mars... why sex is important for neuroimagers**  
Katy Vincent  
Nuffield Dept of Obstetrics & Gynaecology, University of Oxford & OUH NHS Trust
- 12.30 – 13.30 Lunch break

## **Neural mechanisms of attention and perception**

- 13.30 – 13.45 **Introduction**  
Kerry Walker  
Dept of Physiology, Anatomy and Genetics, University of Oxford
- 13.45 – 14.30 **Task-related adaptive plasticity in auditory cortex**  
Shihab Shamma  
Institute for Systems Research, University of Maryland & Laboratoire des Systèmes Perceptifs, Ecole Normale Supérieure
- 14.30 – 15.00 Break
- 15.00 – 15.45 **Listening in crowded environments: How attention shapes human brain responses to attended and unattended sounds**  
Maria Chait  
Ear Institute, UCL
- 15.45 – 16.30 **Attentional modulation in primate sensory cortex**  
Alexander Theile  
School of Psychology, Newcastle University
- 16.30 – 16.45 **Concluding thoughts and general discussion**  
Kristine Krug  
Dept of Physiology, Anatomy and Genetics, University of Oxford