



Gradients of Brain Organisation Workshop 2022 Cambridge, UK

08.30 – 09.00 Registration

09.00 – 09.10 Welcome

09.10 – 10.25 **Methods and modelling**

Claude Bajada, University of Malta

Vogt, Bailey and Bob: exploring local gradients

Shella Keilholz, Georgia Institute of Technology

Brain activity propagates along functional connectivity gradients

Taku Ito, Yale University School of Medicine

Multi-task representations in human cortex transform along a sensory-to-motor hierarchy

Panel Discussion

10.25 – 10.40 Coffee break

10.40 – 11.55 **Gradient neurobiology**

Valerie Sydnor, Penn Lifespan Informatics and Neuroimaging Center

Developmental plasticity unfolds along a sensorimotor-association gradient

Julien Vezoli, Ernst Strüngmann Institute

Anatomical connectivity gradients differentially shape the strength of frequency-specific functional interactions networks

Kuldeep Kumar, CHU Sainte-Justine Research Centre

Using organizing principles of the human brain to map genome-wide the effect sizes of gene dosage on cognition

Panel Discussion

11.55 – 12.40 Lunch Break

12.40 – 12.55 **Flash talks**

12.55 – 14.10 **Cognitive and clinical perspectives**

Meike Hettwer, MPI Leipzig

Transdiagnostic gradients capture coordinated cortical thickness alterations across mental disorders

Jessica Royer, McGill University

Atypical macroscale organization of cortical microstructure in temporal lobe epilepsy

Chris Timmermann, Imperial College London

Functional gradients and DMT

Panel Discussion

14.10 – 14.30 Closing comments

14.30 – 16.00 **Poster session**