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AVA Christmas Meeting 2023 Royal Holloway, University of London

Windsor Auditorium 10-10.55 Arrival and coffee in the foyer

Talk Session 1 11:00-12:15 (Chair: Andrew Meso)

11:00-11:30 Keynote: Laurence Maloney (New York University) Testing Bayesian models

11:30-11:45 D. Baker (University of York) Binocular interactions within and between chromatic channels

11.45-12:00 C. S. Qian (University of Warwick) Accounting for the structure of noise in binocular rivalry

12:00-12.15 M. Wang (University of Oxford) Computational simulations of Vernier thresholds: role of fixational eye movements in visual sampling

12:15-12:30 A. Nowakowska (University of Leicester) What makes visual search inefficient?

12:30 -2 Lunch and posters in the foyer

Talk session 2 2:00-3:05 (Chair: Matteo Lisi)

2:00-2:20 Marr Medal winner: Manuel Spitschan (Technical University Munich) Photoreceptor mechanisms underlying human non-visual responses to light

2:20-2:35 S. Rushton (University of Cardiff) Evidence of a third functional visual pathway and robust individual differences

2:35-2:50 A. Bompas (University of Cardiff) The stop-signal reaction time largely reflects sensory and motor delays

2:50-3:05 B. Sayim (CNRS, University of Lille) Information loss and accuracy gain in redundancy masking

3:05-4 Coffee break and posters

Talk session 2 4:00-5:00 (Chair: Jasna Martinovic)

4:00-4:15 D. Hu (University of Nottingham) Exploring the motion deblurring mechanism from a visual prediction perspective

4:15-4:30 C. Tyler (City University of London) Pointillistic perception: The local nature of suprathreshold visual processing

4:30-4.45 B. Rogers (University of Oxford) The art and science of Patrick Hughes' "Reverspectives"

4:45-5 L. Harris (York University, Toronto) Perception of self-motion in microgravity

5:00-5:15 Short break

5:15 – 5:45 Dr Naomi Lebens College Curator Introduces the Royal Holloway Picture Gallery collection

5:45 Drinks reception

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Posters

1. J. Föcker (University of Lincoln) The relationship between serial dependence and individual differences in multiple object tracking
2. A. Hahn (Max Planck Institute for Biological Cybernetics) Eye movements, pupil size and scene perception in real-world indoor and outdoor scenes
3. S. Beech (University of Bristol, , University of Bath) What are the effects of constant and varying visual feedback delays on a simple target acquisition task?
4. K. Ward (Cardiff University) Measuring the spatiotemporal contrast sensitivity function in infantile nystagmus
5. P. Atkins (University of Lincoln) The impact of multisensory and uni-sensory cue placement in a multiple object tracking task
6. K. P. Skoczek (University of Nottingham) A magno-biased adaptable metric mediates perception of spatial separation
7. S. Heer (Queen Mary University of London) From semantics to saccades: analysing the impact of semantic contrast on eye movements
8. B. Ip (Wellcome Centre for Integrative Neuroimaging) The neurochemistry and connectivity in the brain in Charles Bonnet Syndrome
9. M. R. Joshi (University of Plymouth) Spatial summation within static and dynamic Glass patterns
10. J. B. Troy (Northwestern University) What does the visual brain see after loss of photoreceptors?
11. O. Shenyan (University College London) Visual hallucinations induced by Ganzflicker and Ganzfeld differ in complexity, frequency, and content
12. M. Lisi (Royal Holloway, University of London) Confidence biases in perceptual decision-making
13. P. K. Ho (Heriot-Watt University, UAE) The role of image statistics and personality traits on perceived intimacy of architectural spaces
14. J. Billington (University of Leeds) Camouflage properties modulate neural markers of attention and decision making
15. G. Schmidtman (University of Plymouth) The Pint Glass Illusion: Exploring the misjudgment of curvature and length for two and three-dimensional objects
16. A. Morsi (University College London) Common patterns of spatial selectivity in early visual cortex and face-selective brain regions
17. M. A. Pedziwiatr (Queen Mary University of London) Mouse tracking as a potential alternative for eye tracking in research on individual differences in image-viewing behaviour
18. D. J. Turner (University of Oxford) Validation of a portable Arduino-based device to measure the Rayleigh match
19. K. Stanford (Cardiff University) The influence of reachability on judged graspability and size
20. H. T. Chow-Wing-Bom (University College London) Cortical contrast sensitivity across the visual field to low and high spatial frequency stimuli
21. K. E. Staeubli (University College London, NIHR Moorfields Biomedical Research Centre) Child-friendly vision assessments using steady-state EEG and calibration-free gaze tracking
22. J. Liang (Eberhard Karls University of Tübingen, Max Planck Institute for Biological Cybernetics) Trans-saccadic integration of visual inputs for target recognition peters out with pre-saccadic target eccentricity in visual search
23. L. O'Hare (Nottingham Trent University) No evidence of cross-orientation suppression differences between migraine aura and healthy controls
24. S. Ponting (University of Oxford) Quantification of melanopic light in an office environment
25. T. D. W. Wilcockson (Loughborough University) Saccadic eye movements in Functional Cognitive Disorder
26. V. A. Nemes (University of Pécs) Visual perceptual memory for crossed and uncrossed binocular disparities
27. T. Davies (University of Lincoln) Multimodal integration of emotional robotic stimuli: a reaction time study
28. C. H Wallis (Cardiff University) Validity of oculomotor measures of efference copy
29. S. R. Male (University of Hyderabad) Policy conceptualization and advocacy for people with colour vision deficiency