





Neurocuriosity 2016

Thursday 6th October - Saturday 8th October BMA House, Tavistock Square, London, WC1H 9JP

Thursday 6th October 9:00-17:45

Paget Room

Behavioral and Cognitive Neuroscience

Chair: Pierre-Yves Oudeyer

9.00-9.30	Coffee and Registration
9.30-10.00	Opening Remarks (Teodora Gliga, Jacqueline Gottlieb, Pierre-Yves Oudeyer)
10.00-10.45	Jonathan Nelson: "The Mathematics, Psychology, and Neuroscience of Information."
10.45-11.30	Doug Markant: "Constructing rules through active exploration: Evidence from human category learning."
11.30-12.15	Romain Ligneul: "The neural valuation of knowledge: from curiosity relief to epistemic surprise."
12:15-13:30	Lunch break
13.30-14.15	Sid Kouider: "Neural dynamics of prediction, surprise and consciousness in infants."
14.15-15.00	Matthias Gruber: "The neurocognitive mechanisms of curiosity states on learning."
15.00-15.30	Coffee/Tea
15.30-16.15	Kou Murayama: "Curiosity as a complementary reward for extrinsic incentives."
16.15-17.00	Jill O-Reilly: "Control of entropy in internal models."
17.00-17.45	GENERAL DISCUSSION (Denis Mareschal)















Friday 7th October 8:30-18.00

Great Hall

Computation and Electrophysiology

Chair: Jacqueline Gottlieb

8.30-9.00	Coffee and Registration
9.00-9.45	Karl Friston: "Active inference and artificial curiosity."
9.45-10.30	Gianluca Baldassarre: "Bio-inspired computational models of the development of attention skills: intrinsic motivations, goals, and learning."
10.30-11.15	Peter Dayan: "Exploration bonuses: Bayes and Beyond."
11.15-12.00	Pierre-Yves Oudeyer: "Diversity of forms and developmental functions of curiosity-driven learning".
12.00-13.15	Lunch
13.15-14.00	Kenji Doya: "Design, inference and evolution of reward functions for robots."
14.00-14.30	GENERAL DISCUSSION (Pierre-Yves Oudeyer)
14.30-15.00	Coffee/Tea
15.00-15.45	Wolfram Schultz: "Risky Neurones."
15.45-16.30	Andrew Bell: "How Face Neurons contribute to Perceptual Decision-Making"
16.30-16.45	Coffee/Tea
16.45-17.30	Laurence Hunt: "'Reward-guided information search and choice in prefrontal cortex."
17.30-18.00	GENERAL DISCUSSION (Jacqueline Gottlieb)
18:30- late	SPEAKERS DINNER – VENUE TBC















Saturday 8th October 8:30-15.15 followed by lab tours

Paget Room

Developmental Psychology

Chair: Derek Bell

8.30-9.00	Coffee and Registration
9.00-9.30	Opening remarks (Derek Bell – Learnus): "So what do I do in my lessons next week?"
9.30-10.15	Katarina Begus: "Active learners: Behavioural and neural mechanisms of selective social learning in infancy."
10.15-11.00	Louise Goupil: "Developing a reflective mind: uncertainty monitoring, decision confidence and error detection in human infants."
11.00-11.30	Coffee Break
11.30-12.15	Lisa Feigenson: "How Core Knowledge Drives Learning."
12.15-13.00	Daphne Bavelier: "Learning to Learn: Lessons from Action Video Game Play."
13.00-14.00	Lunch Break
14.00-14.45	Alison Gopnik: "When (and why) children are more open-minded than adults: Childhood as simulated annealing."
14.45-15.15	GENERAL DISCUSSION (Teodora Gliga)
15.30-16.30	baby LAB tours







