

Annual Meeting Detailed Program

Sunday August 28th

10:35 - 10:40

Welcome and Opening Remarks 08:30 – 08:45	Paul E Phillips President
Session I 08:45 – 10:20	Consumer and Organizational Behavior
08:45 - 09:05	Neural Mechanisms underlying Diversification in Consumer Choice Linda Couwenberg Linda Couwenberg, Maarten Boksem, Maciej Szymanowski, Alan Sanfey, Ale Smidts
09:10 - 09:30	Responsibility Aversion and Leadership Ability - Behavioral, Cognitive and Neurocomputational Mechanisms Micah Edelson Micah G Edelson, Rafael Polania, Christian Ruff, Ernst Fehr, Todd A Hare
09:35 - 09:55	Neural Mechanisms of Everyday Decision-Making Under Scarcity Inge Huijmans Inge Huijsmans, Leticia Rettore Micheli, Wenwen Xie, Mirre Stallen, Alan Sanfey
10:00 - 10:20	Divisive Normalization Yields Attraction and Compromise Effects Ryan Webb Ryan Webb, Peter Landry
Poster Spotlights I 10:25 – 10:50	
10:25 - 10:30	How oxytocin fine-tunes decision making in social dilemmas: cooperate as long as it pays off, but aggress only when you think you can win! An fMRI study. Carolyn Declerk Carolyn H Declerck, Christophe Boone, Bruno Lambert, Paul M Parizel
10:30 - 10:35	Visual search patterns predict the level of sophistication in interactive games Luca Polonio

Luca Polonio, Joshua Zonca, Giorgio Coricelli

Neural mechanisms of control aversion during social decision making



Sarah Rudorf

Sarah Rudorf, Thomas Baumgartner, Katrin Schmelz, Urs Fischbacher,

Daria Knoch

10:40 - 10:45 Contributions of neural adaptation to value-based and perceptual

choice

Alireza Soltani

Alireza Soltani, Oihane Horno, Mehran Spitmaan

10:45 - 10:50 Independence of Irrelevant Alternatives in Decisions from Experience:

A Challenge for Reinforcement Learning Models

Mikhail Spektor

Mikhail S Spektor, Sebastian Gluth, Laura Fontanesi, Jörg Rieskamp

Poster Session I

10:50 – 13:15 Coffee/Tea and snacks served

Panorama Foyer Please visit our poster presenters in the Panorama Foyer. A full list of

poster presenters can be found further in the conference program.

Sponsored by: UNC Kenan Flagler Business School, Wells Fargo Center

for Corporate Finance

13:15 – 14:15

Beletage Restaurant

Buffet Lunch

The Kavli Foundation Social and Decision Science Workshop –

14:15 – 15:45 Experimental approaches at the interface of neuroscience and social

sciences - insights, pitfalls and cultural differences

Bernd Weber, Life & Brain Center & Center for Economics and

Neuroscience

15:45 – 16:05 Coffee Break

16:05 – 17:35 Consumer Neuroscience: Does Consumer Research Need Brains?

Hilke Plassmann, INSEAD

In this workshop, we discuss the applications of neuroscience to consumer research. I start with giving an overview on basic questions of interest to consumer researchers and then discuss when and why (not) neuroscience can be useful to answer them. I also give a brief overview

of how non-academic agents (i.e. companies and public policy

institutions) are currently applying neuroscience work "in the wild". The workshop will be wrapped up by an interactive discussion on what it

means to be faculty at a business school doing research in

neuroeconomics.



The Kavli Foundation Neuroscience Workshop –

14:15 - 15:45

The neurophysiology of decision-making: implications for psychiatry and economics

David Redish, University of Minnesota

Every normative model makes underlying assumptions about the processes available. Equivalently, every process model implies a normative set of decisions that are optimized based on the available processes – this means that while one can ask whether animals normatively use a given process model to its full extent, in order to do so, we need to understand the processes underlying decision-making. Thus, if we want to get the economics right, we need to understand how decisions are made.

There is now extensive evidence that mammals, including rats, monkeys, and humans, take actions based on an interaction between multiple decision-making systems, each of which uses different algorithms implemented by different neural circuits to select actions. Current neuroscience technologies are able to directly observe the information processes underlying those different algorithms. Through a combination of neurophysiological observations, computational analyses, and theoretical reasoning, I will present what is currently known about those decision-making processes.

Small changes in how questions are asked, how options are perceived, or even small changes in the past experience of agents will affect which systems become accessed. If we want to understand errors in the system (such as why an agent continues to take drugs), then we need to understand those processes, including the potential physical and algorithmic failure modes of the processes, so that we can see where the agent is making normative mistakes. The interacting multiple decision-making systems make surprising factors relevant, explaining how behavioral economics and psychiatric treatment can "nudge" behavior through surprisingly small changes.

15:45 - 16:05

Coffee Break

16:05 - 17:35

Learning from Experience: How Different Forms of Memory Guide Decisions

Daphna Shohamy Zuckerman; Mind, Brain Behavior Institute, Kavli Institute for Brain Science, Columbia University From robots to humans, the ability to learn from experience turns a rigid response system into a flexible, adaptive one. What are the neurobiological and cognitive mechanisms that allow everyday experiences to change the way we perceive, act and make decisions?



Daphna Shohamy's research explores how different parts of the brain work together to support learning, what this means for how memories are built, and what the consequences are for how we make decisions.

Networking Cocktail Reception

17:35 – 19:00 Panorama Foyer Join us in the Panorama Foyer for appetizers, drinks and networking

opportunities

Sponsored by The Brain, Mind and Markets Lab at the University of

Melbourne

Monday August 29, 2016

Session II 08:45 – 10:20	Attention, Learning & Memory
	Sponsored by NeuroObjective Press
08:45 - 09:05	Seek, and ye shall find patience: Information Search Strategies Both Reveal and Shape Intertemporal Choice Crystal Reeck Crystal Reeck, Daniel Wall, Eric J Johnson
09:10 - 09:30	Less is more: weaker prefrontal cortex leads to better implicit decision making Dezso Nemeth Dezso Nemeth, Karolina Janacsek
09:35 - 09:55	Reward prediction errors enhance episodic memory Nina Rouhani Nina Rouhani, Ken Norman, Yael Niv
10:00 - 10:20	Motivational processes engaged by levels of reward Roberto Viviani Roberto Viviani, Lisa Dommes, Julia Bosch, Julia C Stingl, Petra Beschoner
Poster Spotlights II	

10:25 - 10:50

10:25 - 10:30 The role of time ambiguity in intertemporal choice

Iris Ikink

Iris Ikink, Jan B Engelmann, Wouter van den Bos, Karin Roelofs, Bernd

Figner



10:30 - 10:35	Assumptions of linear utility systematically bias estimations of
10.00	impulsivity
	Silvia Lopez-Guzman
	Silvia Lopez-Guzman, Anna B Konova, Kenway Louie, Paul W Glimcher
10:35 - 10:40	New flavor of the exploration-exploitation trade-off in contextual
	multi-armed bandit problems
	Hrvoje Stojic
10.40 10.45	Hrvoje Stojic, Pantelis Analytis, Maarten Speekenbrink
10:40 - 10:45	Disrupting the temporo-parietal junction reveals role of overcoming
	self-centeredness in delay of gratification Alexander Soutschek
	Alexander Soutschek, Christian C Ruff, Tobias Kalenscher, Philippe
	Tobler
10:45 - 10:50	Human Striatum Represents Bayesian Surprise, Not Prediction Error,
10.15 10.50	in Categorization Learning
	Ian Ballard
	Ian C Ballard, Samuel M McClure
Poster Session II	
10:50 - 13:15	Coffee/Tea and snacks served
Panorama Foyer	Please visit our poster presenters in the Panorama Foyer. A full list of
	poster presenters can be found further in the conference program.
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The Fred Kavli Plenary Lecture— Sponsored by The Kavli Foundation

15:30 - 16:40

Retaining Memory: The paradoxical benefits of both novelty and familiarity

Richard G M Morris, FRS

Centre for Cognitive and Neural Systems, The University of Edinburgh Sponsored by The Kavli Foundation

One key challenge in memory research is to understand the selectivity of memory consolidation – the process by which memory traces become stabilised over time. A key issue is that some events are remembered, others are not. In recent publications, I have argued that the 'automatic recording of attended experience' by which we keep track of daily events is followed by the loss of many but not all memory traces within the day, with only some persisting longer in association with the upregulation of plasticity-related proteins (PRPs) that stabilise synaptic potentiation (cellular consolidation) that is the basis of memory formation. Novelty is adept at upregulating PRPs. Memory traces are encoded in parallel in the cerebral cortex (cortical consolidation), with the additional twist that new information may be more successfully assimilated if it fits well with prior knowledge that has previously been stored in cortex in the form of 'schemas'. Prior knowledge is, of course, information with which we are most familiar. The economic implications of this paradox are not my realm of expertise, but I will conclude with some thoughts about accuracy vs. gist that perhaps each affect our economic behaviour.

Beer Hall Dinner

18:00 – 20:00 LowenBrau Leipziger Str. 65 Join us in the hotel lobby for the short walk to a traditional German Beer Hall! We will enjoy a buffet of traditional Germany cuisine with beer, wine and many opportunities to catch up with your colleagues.

Sponsored by: New York University Institute for the Interdisciplinary Study of Decision Making (NYU IISDM)



Tuesday August 30, 2016

Announcements 08:30 – 08:45	Paul Phillips Join us for the Early Career Award presentations, the Society Board Election Results and other Society information
Session IV 08:45 – 10:20	Valuation & Value Systems
08:45 - 09:05	Evidence for stochastic discount rates in behavioral and brain imaging data Christopher Glaze Christopher M Glaze, Sangil Lee, Joseph W Kable
09:10 - 09:30	Basolateral amygdala supports the value representation and effortful choice of a preferred option Evan Hart
09:35 - 09:55	Evan E Hart, Marisella Garcia, Yael Zoken, Alicia Izquierdo Encoding of value and choice as separable, dynamic neural dimensions in orbitofrontal cortex Daniel Kimmel Daniel L Kimmel, Gamaleldin Elsayed, John P Cunningham, William T
10:00 - 10:20	Newsome Decoding Preference Uncertainty in the Human Brain Rafael Polania Rafael Polania, Marcus Grueschow, Christian C Ruff
Poster Spotlights III 10:25 – 10:50	
10:25 - 10:30	The neural correlates of uncertainty in probability updating and risky decision-making Wouter van den Bos Wouter van den bos, Robert Lorenz, Tim Pleskac, Corinna Laube,
10:30 - 10:35	Computational substrats for the limits in human probabilistic inference Yun-Yen Yang Yun-Yen Yang, Shih-Wei Wu
10:35 - 10:40	Neural substrates of group-based hierarchy and inequity preferences Alan de Souza Rodrigues Fermin Alan de Souza Rodrigues Fermin, Haruto Takagishi, Toshio Yamagishi, Yang Li, Yoshie Matsumoto



10:40 - 10:45 What is beautiful is trustworthy - neuroanatomic and -functional correlates of the Halo effect Soyoung Park Soyoung Q Park, Hackjin Kim, Hauke R Heekeren 10:45 - 10:50 Distinguishing different psychiatric populations based on a social hierarchy paradigm Iris Vilares Donga Iris Vilares, Tobias Nolte, Andreas Hula, Zhuoya Cui, Peter Fonagy, Terry Lohrenz, Lusha Zhu, Pearl Chiu, Brooks King-Casas, Peter Dayan, Read Montague Poster Session III Coffee/Tea and snacks served 10:50 - 13:15 Please visit our poster presenters in the Panorama Foyer. A full list of poster presenters can be found further in the conference program. Sponsored by The Brain, Mind and Markets Lab at the University of Melbourne **Buffet Lunch** 13:15 - 14:15 Beletage Restaurant Aging & Computational Psychiatry Session V 14:15 - 15:25 14:15 - 14:35 The Shrinking of Anterior Prefrontal Lobe Correlates with Loss of **Economic Rationality in Aging** Hui-Kuan Chung Hui-Kuan Chung, Paul Glimcher, Agnieszka Tymula 14:40 - 15:00 Behavioural and neural correlates of the gambler?s fallacy in **Gambling Disorder** Eve Limbrick-Oldfield Eve H Limbrick-Oldfield, Rachel Cocks, Inge Mick, Remy S Flechais, Michael R Aitken, Anne Lingford-Hughes, Henrietta Bowden-Jones, Luke Clark 15:05 - 15:25 Mesolimbic dopamine encodes both desire and satisfaction: lessons learned from studies of substance abuse in rats Paul E Phillips Paul E Philips, Ingo Willuhn, Lauren Burgeno



Session VI	Bounded Rationality
15:30 – 17:05	
15:30 - 15:50	Testing Models of Rational Inattention
	Mark Dean
	Mark Dean
15:55 - 16:15	Learning relative values in the striatum induces violations of
	normative decision making
	Gerhard Jocham
	Gerhard Jocham, Markus Ullsperger, Tilmann A Klein
16:20 - 16:40	Optimal and heuristic decision-making policies in the human brain
	Christoph Korn
	Christoph W Korn, Dominik Bach
16:45 - 17:05	Multiple timescales of valuation mediate adaptive choice behavior
	Kenway Louie
	Kenway Louie, Jan Zimmermann, Paul W Glimcher