

# Society for NeuroEconomics

NEUROSCIENCE • PSYCHOLOGY • ECONOMICS

# 14<sup>th</sup> Annual Meeting 2016

August 28 – 30

Berlin, Germany  
Hilton Berlin



## PROGRAM AT A GLANCE

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## OUR MISSION

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The mission of the Society for NeuroEconomics is to:

***Foster research on the foundations of economic behavior by promoting collaboration and discussion among scholars from the psychological, economic, and neural sciences.***

***Ensure the continued advancement of the field of neuroeconomics by supporting young researchers.***

The Society promotes this mission through annual meetings for presentation of original theory and research, and through educational programs to promote development of a common language and set of methodological tools for the field..

# ANNUAL MEETING

Since 2005, the Society for NeuroEconomics has been meeting annually to discuss emerging and exciting research in the field of neuroeconomics. These meetings have attracted researchers, students and followers from across the globe to present their work, network and discuss collaborations, obtain valuable feedback from peers and to stay informed about the current research being performed around the globe.

13 <sup>th</sup> Meeting	Sept. 25 – 27, 2015	Miami, Florida, USA
12 <sup>th</sup> Meeting	Sept. 26 – 28, 2014	Miami, Florida, USA
11 <sup>th</sup> Meeting	Sept. 27 – 29, 2013	Lausanne, Switzerland
10 <sup>th</sup> Meeting	Sept. 28 – 30, 2012	Miami, Florida, USA
9 <sup>th</sup> Meeting	Sept. 30 – Oct 2, 2011	Evanston, Illinois, USA
8 <sup>th</sup> Meeting	Oct 15 – 17, 2010	Evanston, Illinois, USA
7 <sup>th</sup> Meeting	Oct 15 – 17, 2009	Evanston, Illinois, USA
6 <sup>th</sup> Meeting	Sept. 25 – 28, 2008	Park City, Utah, USA

5 <sup>th</sup> Meeting	Sept. 27 – 30, 2007	Hull, Massachusetts, USA
4 <sup>th</sup> Meeting	Sept. 7 – 10, 2006	Park City, Utah, USA
3 <sup>rd</sup> Meeting	Sept. 15 – 18, 2005	Kiawah Island, South Carolina, USA
2 <sup>nd</sup> Meeting	2004	Kiawah Island, South Carolina, USA
1 <sup>st</sup> Meeting	2003	Martha's Vineyard, Massachusetts, USA

## SOCIETY FOR NEUROECONOMICS BOARD OF DIRECTORS

### Officers

<b>Paul Phillips</b> <i>President</i>	<i>The University of Washington</i>
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<b>Camelia Kuhnen</b> <i>Immediate Past-President</i>	<i>The University of North Carolina at Chapel Hill</i>
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<b>Elizabeth Phelps</b>	<i>New York University</i>
<b>Alan Sanfey</b>	<i>The Donders Institute for Brain, Cognition and Behaviour at Radboud University</i>

## SOCIETY FOR NEUROECONOMICS COMMITTEE LIST

### Nominations Committee

<b>Alan Sanfey, Chair</b>	<i>The Donders Institute for Brain, Cognition and Behaviour at Radboud University</i>
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<b>Camelia Kuhnen</b>	<i>The University of North Carolina at Chapel Hill</i>

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<b>Philippe Tobler</b>	<i>University of Zurich</i>
<b>Agnieszka Tymula</b>	<i>University of Sydney</i>



## PRESIDENT'S WELCOME

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Welcome to the 14<sup>th</sup> Annual Neuroeconomics meeting, the 12<sup>th</sup> since the incorporation of the Society for Neuroeconomics. We are especially exhilarated for the conference to come to Berlin this year. This is the second Society for Neuroeconomics meeting to be held in Europe. The first European meeting was in 2013 in Lausanne, Switzerland, and had the highest attendance in our conference history. This year, we anticipate the registration will surpass that record, making it the largest conference on Neuroeconomics to date. This success will ensure the future return of the meeting to Europe at regular intervals.

As in previous years, the conference will be comprised of a keynote lecture, parallel workshops, plenary panels and poster presentations. The panels and posters represent a broad scope of research spanning the range of neuroeconomics using combinations of approaches from psychology, economics and neuroscience to study decision making. The workshops will be tutorial-style presentations intended to provide information to aid investigators to integrate approaches between the elementary disciplines of neuroeconomics. The Kavli Foundation Workshop on Social and Decision Science and the Kavli Foundation Workshop on Neuroscience will run in parallel on Sunday (August 28) afternoon. The two sessions in the Social and Decision Science workshop will be led by Bernd Weber, M.D. and Hilke Plassmann, Ph.D., respectively. Dr. Weber is Director of the Center for Economics and Neuroscience at the University of Bonn. He has a background in molecular pharmacology but has transitioned his research to the use of economic methods to study human decision making. During his session he will emphasize some of the critical nuances that have come about due to differences in experimental approaches used in economics, psychology and neuroscience, and will discuss how to navigate these different cultures. Dr. Plassmann is Associate Professor of Marketing at INSEAD, Paris. Her session will focus on consumer behavior, highlighting areas of synergy and those of discord from the use of neuroscience in consumer research and will look to the future role of neuroscience in this field. She will also discuss the challenges of conducting neuroeconomics research in a business school. The first sessions in the Neuroscience workshop will be led by A. David Redish, Ph.D., Professor of Neuroscience at the University of Minnesota. He will talk about the use of computational neuroscience models to investigate neural algorithms underlying economic behavior. In the second session, Dr. Shohamy, Associate Professor of Psychology at Columbia University, will discuss how memory systems are engaged in economic decision making.

This year's keynote speaker is Richard G. M. Morris, D.Phil., C.B.E., F.R.S., Professor of Neuroscience at the University of Edinburgh and recipient of the 2016 Brain Prize. He will present the 7th Annual Kavli Foundation Plenary Lecture on Monday (August 29). Richard's esteemed career has focused on the neurobiology of memory. While he has not explicitly investigated economic decision making, he has contributed enormously to our field through numerous discoveries that have elucidated key components of the fundamental basis of memory and cognition, processes that are pivotal to the enactment of economic behaviors. He was one of the first investigators to provide tractable evidence linking putative cellular mechanisms of memory (i.e., synaptic plasticity) to information storage in vivo. For example, using innovative spatial-navigation tasks in rodents, he made the first demonstration that long-term potentiation (LTP) is necessary for learning. He also introduced the notion of synaptic tagging as a hypothesis for long-term memory storage. This is a mechanism by which synapses are selected to undergo late-phase LTP based on their antecedent activity. Professor Morris' lecture will synthesize these and other basic molecular mechanisms to account for prioritization of information that will undergo memory consolidation. The lecture will be followed by a traditional German banquet at a Bavarian-style restaurant and biergarten.

In addition to the banquet, there will be opportunities for informal interactions throughout the conference at poster sessions, buffet lunches and a cocktail reception, as well as time for social activities outside the program. The culture of the conference has evolved to promote the combination of constructive academic discourse during formal sessions with relaxed networking at other times. Therefore, we hope you are able to make the most of your time in Berlin.

Sincerely,

**Paul E. M. Phillips, Ph.D.**

*President, Society for NeuroEconomics*

# GENERAL CONFERENCE INFORMATION

## Meeting Venue

Hilton Berlin  
Mohrenstrasse 30  
10117, Berlin, Germany

## Registration

The annual meeting of the Society for NeuroEconomics registration includes admission to all sessions, coffee breaks, lunches as well as to the Networking Cocktail Reception, the 7<sup>th</sup> Annual Fred Kavli Lecture and the Beer Hall Dinner off site.

## Name Badges

Kindly wear your name badge at all time as your admission to the sessions and meals. At the end of the conference you are encouraged to recycle your badge at any of the recycle stations or at the registration desk when you leave.

Please note that Students have Red name badges and Post Doctoral registrants have Blue name badges. If you would like to self identify to other attendees, we have stickers available to place on your name badge.

**Red** – Ph D Student Looking for a Post Doc Position

**Green** – PI looking for someone to fill a Post Doc position in your lab

**Yellow** – If you are looking for a position beyond a Post Doc (Senior Post Doc, Fellow, Faculty)

## Registration and information desk

The registration/information desk, located in the Panorama Foyer is open daily during conference session hours:

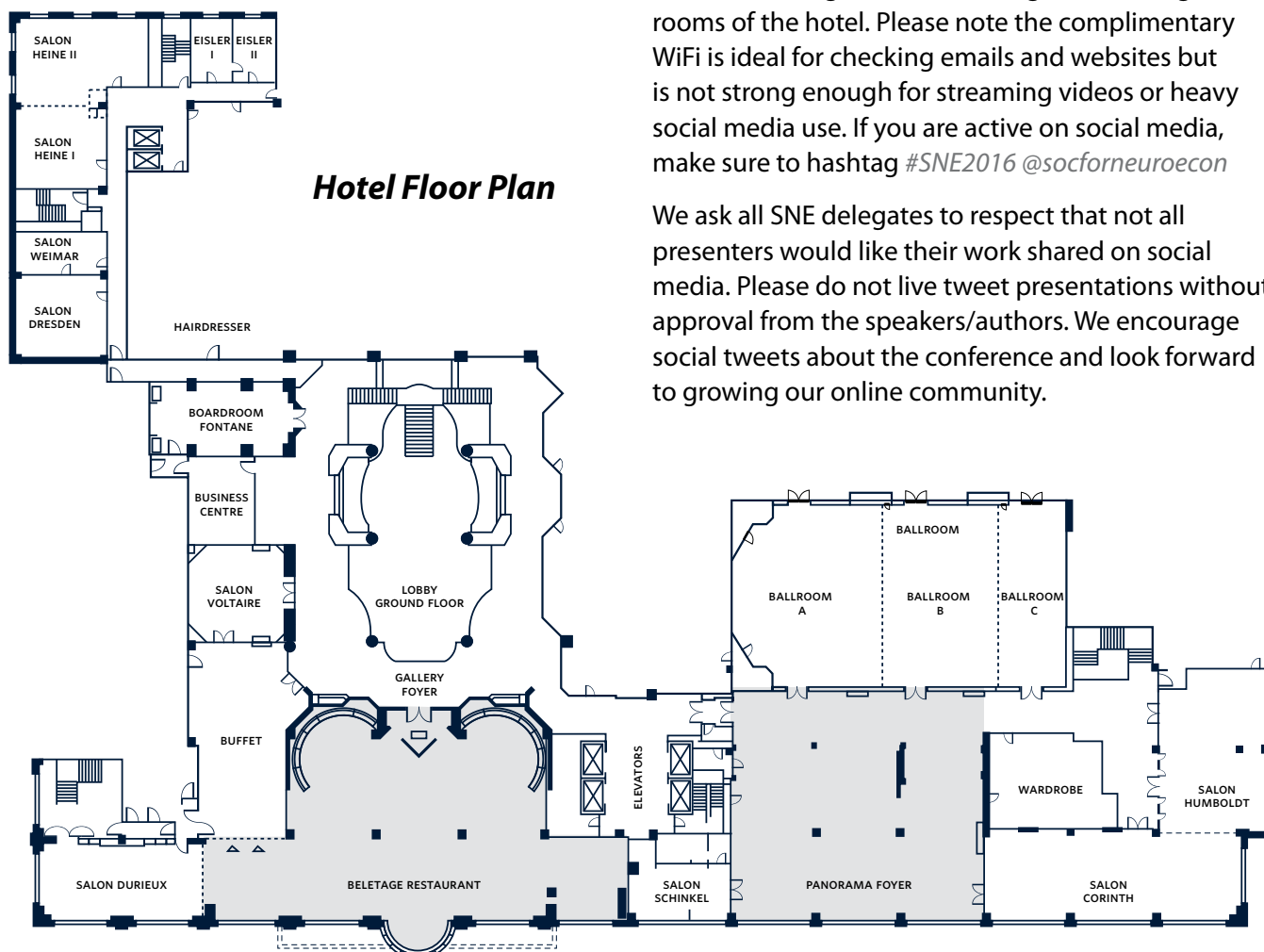
Sunday, August 28	7:30 – 18:00
Monday, August 29	8:00 – 17:00
Tuesday, August 30	8:00 – 17:00

If you'd like to pick up your name badge on Saturday August 27th a small desk will be located in the hotel lobby from 4pm - 7pm.

## Wireless Internet and Social Media

Complimentary wireless internet is available to the delegates of the Society of NeuroEconomics Annual Meeting. Please choose the Hilton network and enter the code: **SNE2016**. Complimentary wireless is available throughout the meeting rooms and guest rooms of the hotel. Please note the complimentary WiFi is ideal for checking emails and websites but is not strong enough for streaming videos or heavy social media use. If you are active on social media, make sure to hashtag **#SNE2016 @socforneuroecon**

We ask all SNE delegates to respect that not all presenters would like their work shared on social media. Please do not live tweet presentations without approval from the speakers/authors. We encourage social tweets about the conference and look forward to growing our online community.



## Berlin Information

Please visit the registration desk to pick up a map of Berlin. Don't miss out on the traditional and world famous currywurst! The Dom Curry is immediately outside the hotel and serves the Berlin specialty along with their homemade curry ketchup and fries.

## Staff

SNE staff from Podium Conference Specialists can be identified by the orange ribbons on their name badges. Volunteers can be identified by the yellow ribbons on their name badges. Feel free to ask any one of our staff for assistance, or visit the registration desk.

## Poster Sessions

Please visit our poster presenters during the three poster sessions. Coffee and tea will be served immediately before the poster session and please feel free to enjoy your beverage while reviewing the posters. The posters are spread throughout the Panorama Foyer. Information on Poster Authors, Poster Numbers and Poster Titles begins on page 14.

For a complete copy of the poster abstracts, please see the downloadable pdf abstract book on the Society for NeuroEconomic website.

### Poster Session 1

**Set Up:** Sunday, August 28, 2016  
between 08:00 and 08:30

**Session Time:** 10:50 – 13:15

**Tear Down:** 19:00

### Poster Session 2

**Set Up:** Monday, August 29, 2016  
between 08:00 and 08:45

**Session Time:** 10:50 – 13:15

**Tear Down:** 17:00

### Poster Session 3

**Set Up:** Tuesday, August 30, 2016  
between 08:00 and 08:30

**Session Time:** 10:50 – 13:15

**Tear Down:** 17:00



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## DETAILED PROGRAM

**Sunday, August 28, 2016**

08:30 – 08:45	<b>Welcome and Opening Remarks</b> Paul E Phillips <i>President</i>
08:45 – 10:20	<b>SESSION I</b> <b>Consumer and Organizational Behavior</b> <i>Chair: Paul Phillips The University of Washington</i>
08:45 – 09:05	<b>Neural Mechanisms underlying Diversification in Consumer Choice</b> <b>Linda Couwenberg</b> <i>Linda Couwenberg, Maarten Boksem, Maciej Szymanowski, Alan Sanfey, Ale Smidts</i>
09:10 – 09:30	<b>Responsibility Aversion and Leadership Ability - Behavioral, Cognitive and Neurocomputational Mechanisms</b> <b>Micah Edelson</b> <i>Micah G Edelson, Rafael Polania, Christian Ruff, Ernst Fehr, Todd A Hare</i>
09:35 – 09:55	<b>Neural Mechanisms of Everyday Decision-Making Under Scarcity</b> <b>Inge Huijmans</b> <i>Inge Huijmans, Leticia Rettore Micheli, Wenwen Xie, Mirre Stallen, Alan Sanfey</i>
10:00 – 10:20	<b>Divisive Normalization Yields Attraction and Compromise Effects</b> <b>Ryan Webb</b> <i>Ryan Webb, Peter Landry</i>
10:25 – 10:50	<b>Poster Spotlights I</b> <i>Chair: Ale Smidts Erasmus University</i>
10:25 – 10:30	<b>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.</b> <b>Carolyn Declerk</b> <i>Carolyn H Declerck, Christophe Boone, Bruno Lambert, Paul M Parizel</i>
10:30 – 10:35	<b>Visual search patterns predict the level of sophistication in interactive games</b> <b>Luca Polonio</b> <i>Luca Polonio, Joshua Zonca, Giorgio Coricelli</i>
10:35 – 10:40	<b>Neural mechanisms of control aversion during social decision making</b> <b>Sarah Rudolf</b> <i>Sarah Rudolf, Thomas Baumgartner, Katrin Schmelz, Urs Fischbacher, Daria Knoch</i>
10:40 – 10:45	<b>Contributions of neural adaptation to value-based and perceptual choice</b> <b>Alireza Soltani</b> <i>Alireza Soltani, Oihane Horno, Mehran Spitmaan</i>
10:45 – 10:50	<b>Independence of Irrelevant Alternatives in Decisions from Experience: A Challenge for Reinforcement Learning Models</b> <b>Mikhail Spektor</b> <i>Mikhail S Spektor, Sebastian Gluth, Laura Fontanesi, Jörg Rieskamp</i>



10:50 – 13:15  
Panorama Foyer

## **Poster Session I**

*Coffee/Tea and snacks served*

*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:  
University of Pennsylvania*



**NEUROSCIENCE**  
Initiative

13:15 – 14:15  
Beletage Restaurant

## **Buffet Lunch**

*Sponsored by: Universität Bonn,  
Centre for Economics and Neuroscience*



## **The Kavli Foundation Social and Decision Science Workshop**



14:15 – 15:45  
Salon Corinth

### ***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*

In this workshop, we discuss different approaches to investigate human behavior in neuroscience, psychology and economics. I will start with an overview of evolved differences in experimental approaches in psychology and economics, which have been picked up also by neuroeconomists. We will then go on to discuss confusion and difficulties arising from these differences as well as possible solutions especially for interdisciplinary groups.

15:45 – 16:05

Coffee Break

16:05 – 17:35  
Salon Corinth

### ***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  
Ballroom

#### ***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  
Ballroom

#### ***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.

17:35 – 19:00  
Panorama Foyer

#### ***Networking Cocktail Reception***

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**

08:45 – 10:20	<p><b>SESSION II</b></p> <p><b>Attention, Learning &amp; Memory</b></p> <p>Chair: <b>Hilke Plassmann</b> INSEAD &amp; Cognitive Neuroscience Unit, Ecole Normale Supérieure</p> <p>Sponsored by: NeuroObjective Press - The Human Decision</p>	 <p>The Human Decision System™</p>
08:45 – 09:05	<p><b>Seek, and ye shall find patience: Information Search Strategies Both Reveal and Shape Intertemporal Choice</b></p> <p><b>Crystal Reeck</b></p> <p>Crystal Reeck, Daniel Watt, Eric J Johnson</p>	
09:10 – 09:30	<p><b>Less is more: weaker prefrontal cortex leads to better implicit decision making</b></p> <p><b>Dezso Nemeth</b></p> <p>Dezso Nemeth, Karolina Janacsek</p>	
09:35 – 09:55	<p><b>Reward prediction errors enhance episodic memory</b></p> <p><b>Nina Rouhani</b></p> <p>Nina Rouhani, Ken Norman, Yael Niv</p>	
10:00 – 10:20	<p><b>Motivational processes engaged by levels of reward</b></p> <p><b>Roberto Viviani</b></p> <p>Roberto Viviani, Lisa Dommes, Julia Bosch, Julia C Stingl, Petra Beschoner</p>	
10:25 – 10:50	<p><b>Poster Spotlights II</b></p> <p>Chair: <b>Alan Sanfey</b> The Donders Institute for Brain, Cognition and Behaviour at Radboud University</p>	
10:25 – 10:30	<p><b>The role of time ambiguity in intertemporal choice</b></p> <p><b>Iris Ikink</b></p> <p>Iris Ikink, Jan B Engelmann, Wouter van den Bos, Karin Roelofs, Bernd Figner</p>	
10:30 – 10:35	<p><b>Assumptions of linear utility systematically bias estimations of impulsivity</b></p> <p><b>Silvia Lopez-Guzman</b></p> <p>Silvia Lopez-Guzman, Anna B Konova, Kenway Louie, Paul W Glimcher</p>	
10:35 – 10:40	<p><b>New flavor of the exploration - exploitation trade-off in contextual multi-armed bandit problems</b></p> <p><b>Hrvoje Stojic</b></p> <p>Hrvoje Stojic, Pantelis Analytis, Maarten Speekenbrink</p>	
10:40 – 10:45	<p><b>Disrupting the temporo-parietal junction reveals role of overcoming self-centeredness in delay of gratification</b></p> <p><b>Alexander Soutschek</b></p> <p>Alexander Soutschek, Christian C Ruff, Tobias Kalenscher, Philippe Tobler</p>	
10:45 – 10:50	<p><b>Human Striatum Represents Bayesian Surprise, Not Prediction Error, in Categorization Learning</b></p> <p><b>Ian Ballard</b></p> <p>Ian C Ballard, Samuel M McClure</p>	

## DETAILED PROGRAM

10:50 – 13:15 Panorama Foyer	<b>Poster Session II</b> <i>Coffee/Tea and snacks served</i> <i>Please visit our poster presenters in the Panorama Foyer. A full list of poster presenters can be found further in the conference program.</i> <i>Co-Sponsored by: INSEAD and PEMPlab</i>
	  
13:15 – 14:15 Beletage Restaurant	<b>Buffet Lunch</b> <i>Sponsored by: Laboratory for Social and Neural Systems Research at the University of Zurich</i>  <b>University of Zurich<sup>UZH</sup></b>
14:15 – 15:25	<b>SESSION III</b> <b>Social Influences and Social Decisions</b> <i>Chair: Joe Kable University of Pennsylvania</i>
14:15 - 14:35	<b><i>Overcorrection for Social Categorization Information Drives Impact Bias in Affective Forecasting</i></b> <b>Tatiana Lau</b> <i>Tatiana Lau, Carey K Morewedge, Mina Cikara</i>
14:40 - 15:00	<b><i>Social context influences decision signals in primate ACC</i></b> <b>Wei Song Ong</b> <i>Wei Song Ong, Michael L Platt</i>
15:05 - 15:25	<b><i>Computational and neural mechanisms of altruistic and healthy choices: cognitive regulation in social and non-social choice domains</i></b> <b>Anita Tusche</b> <i>Anita Tusche, Cendri Hutcherson</i>
<b>The Fred Kavli Plenary Lecture</b>	
15:30 – 16:40	<b><i>Retaining Memory: The paradoxical benefits of both novelty and familiarity</i></b> <b>Richard G M Morris, FRS</b> <i>Centre for Cognitive and Neural Systems, The University of Edinburgh</i> <i>Sponsored by: The Kavli Foundation</i> <p>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’</p>



15:30 – 16:40

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.

18:00 – 20:00

LöwenBräu

Leipziger Str. 65

### **Beer Hall Dinner**

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)*



**Institute for the Interdisciplinary  
Study of Decision Making**  
*From Neuroeconomics to Urban Informatics*

## **Tuesday, August 30, 2016**

08:30 – 08:45

### **Announcements**

**Paul E Phillips** *President*

Join us for the Early Career Award presentations, the Society Board Election Results and other Society information

08:45 – 10:20

### **SESSION IV**

#### **Valuation & Value Systems**

*Chair: Brian Knutson Stanford University*

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**

*Evan E Hart, Marisella Garcia, Yael Zoken, Alicia Izquierdo*

09:35 – 09:55

#### ***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 Newsome*

10:00 – 10:20

#### ***Decoding Preference Uncertainty in the Human Brain***

**Rafael Polania**

*Rafael Polania, Marcus Grueschow, Christian C Ruff*



## DETAILED PROGRAM

10:25 – 10:50	<b>Poster Spotlights III</b> <i>Chair: Elizabeth Phelps New York University</i>
10:25 – 10:30	<b><i>The neural correlates of uncertainty in probability updating and risky decision-making</i></b> <b>Wouter van den Bos</b> <i>Wouter van den bos, Robert Lorenz, Tim Pleskac, Corinna Laube, Laurianne Vagharchakian</i>
10:30 – 10:35	<b><i>Computational substrats for the limits in human probabilistic inference</i></b> <b>Yun-Yen Yang</b> <i>Yun-Yen Yang, Shih-Wei Wu</i>
10:35 – 10:40	<b><i>Neural substrates of group-based hierarchy and inequity preferences</i></b> <b>Alan de Souza Rodrigues Fermin</b> <i>Alan de Souza Rodrigues Fermin, Haruto Takagishi, Toshio Yamagishi, Yang Li, Yoshie Matsumoto, Ryota Kanai, Masamichi Sakagami</i>
10:40 – 10:45	<b><i>What is beautiful is trustworthy - neuroanatomic and -functional correlates of the Halo effect</i></b> <b>Soyoung Park</b> <i>Soyoung Q Park, Hackjin Kim, Hauke R Heekeren</i>
10:45 – 10:50	<b><i>Distinguishing different psychiatric populations based on a social hierarchy paradigm</i></b> <b>Iris Vilares Donga</b> <i>Iris Vilares, Tobias Nolte, Andreas Hula, Zhuoya Cui, Peter Fonagy, Terry Lohrenz, Lusha Zhu, Pearl Chiu, Brooks King-Casas, Peter Dayan, Read Montague</i>
10:50 – 13:15 Panorama Foyer	<b>Poster Session III</b> <i>Coffee/Tea and snacks served</i> <i>Please visit our poster presenters in the Panorama Foyer. A full list of poster presenters can be found further in the conference program.</i> <i>Co-Sponsored by: UNC Kenan Flagler Business School and Stanford University</i> <div>  <div> <b>UNC</b>  <small>KENAN-FLAGLER BUSINESS SCHOOL</small> </div> <div> <b>Stanford</b>  <small>University</small> </div>  </div>
13:15 – 14:15 Beletage Restaurant	<b>Buffet Lunch</b> <i>Sponsored by: Freie Universität Berlin</i> <div> <b>Freie Universität</b>  <b>Berlin</b> </div>

<b>SESSION V</b>	
<b>14:15 – 15:25</b>	<b><i>Aging &amp; Computational Psychiatry</i></b> <i>Chair: Ernst Fehr University of Zurich</i>
14:15 - 14:35	<b><i>The Shrinking of Anterior Prefrontal Lobe Correlates with Loss of Economic Rationality in Aging</i></b> <b>Hui-Kuan Chung</b> <i>Hui-Kuan Chung, Paul Glimcher, Agnieszka Tymula</i>
14:40 - 15:00	<b><i>Behavioural and neural correlates of the gambler's fallacy in Gambling Disorder</i></b> <b>Eve Limbrick-Oldfield</b> <i>Eve H Limbrick-Oldfield, Rachel Cocks, Inge Mick, Remy S Flechais, Michael R Aitken, Anne Lingford-Hughes, Henrietta Bowden-Jones, Luke Clark</i>
15:05 - 15:25	<b><i>Mesolimbic dopamine encodes both desire and satisfaction: lessons learned from studies of substance abuse in rats</i></b> <b>Paul E Phillips</b> <i>Paul E Philips, Ingo Willuhn, Lauren Burgeno</i>
<b>SESSION VI</b>	
<b>15:30 – 17:05</b>	<b><i>Bounded Rationality</i></b> <i>Chair: Ian Krajbich Ohio State University</i>
15:30 - 15:50	<b><i>Testing Models of Rational Inattention</i></b> <b>Mark Dean</b> <i>Mark Dean</i>
15:55 - 16:15	<b><i>Learning relative values in the striatum induces violations of normative decision making</i></b> <b>Gerhard Jocham</b> <i>Gerhard Jocham, Markus Ullsperger, Tilmann A Klein</i>
16:20 - 16:40	<b><i>Optimal and heuristic decision-making policies in the human brain</i></b> <b>Christoph Korn</b> <i>Christoph W Korn, Dominik Bach</i>
16:45 - 17:05	<b><i>Multiple timescales of valuation mediate adaptive choice behavior</i></b> <b>Kenway Louie</b> <i>Kenway Louie, Jan Zimmermann, Paul W Glimcher</i>



Join us for food, drink and more!

**Monday November 14, 2016**

**Hilton San Diego Bayfront**

**Sapphire Ballroom**

**6:30pm – 8:30pm**

We look forward to catching up with all the existing SNE members and meeting new members at SfN.

# POSTER SESSIONS

## About the Poster Sessions:

The Society for NeuroEconomics is pleased to present a wide range of current research through the poster sessions. The posters have been divided over three sessions, with each session on display for one day.

### Poster Session 1

Sunday, August 28, 2016

Session Time: 10:50 – 13:15

### Poster Session 2

Monday, August 29, 2016

Session Time: 10:50 – 13:15

### Poster Session 3

Tuesday, August 30, 2016

Session Time: 10:50 – 13:15

The poster board numbers work in the following way:

Session – Theme – Board Number (ex. 1-A-1)

### Poster Themes

- A Emotion & Affect
- B Individual & Lifespan Differences
- C Finance
- D Consumer Behavior & Marketing
- E Risk & Uncertainty
- F Intertemporal Decision-Making & Self-Control
- G Computational Modeling
- H Game Theory & Strategic Interactions
- I Learning & Memory
- J Valuation & Value Systems
- K Choice & Choice Systems
- L Social Rewards & Social Preferences

### Poster Session 1

Sunday, August 28, 2016

#### A – Emotion & Affect

##### 1-A-1 *The relationship between entrepreneurial and parental love*

Marja-Liisa Halko<sup>1</sup>, Kaisa Hytönen<sup>2</sup>, Tom Lahti<sup>3</sup>, Iiro Jääskeläinen<sup>2</sup>

<sup>1</sup>Aalto University, <sup>2</sup>Aalto University School of Science, <sup>3</sup>Hanken School of Economics

##### 1-A-2 *In the mood for Cheetos but Pringles will do: craving multiplicatively transforms the value of related snacks*

Anna Konova<sup>1</sup>, Paul Glimcher<sup>1</sup>

<sup>1</sup>New York University

##### 1-A-3 *Transport and emotion: the contribution of neurosciences*

Stéphanie Souche-Le Corvec<sup>1</sup>, Jinhua Zhao<sup>2</sup>

<sup>1</sup>University of Lyon - LAET, <sup>2</sup>MIT

##### 1-A-4 *Neural substrates of stimulus value in binary choice about the emotional expressiveness of sad faces*

Roberto Viviani<sup>1</sup>, Lisa Dommes<sup>2</sup>, Julia Bosch<sup>2</sup>, Petra Beschner<sup>2</sup>, Julia Stingl<sup>3</sup>

<sup>1</sup>University of Innsbruck/Ulm, <sup>2</sup>University of Ulm, <sup>3</sup>BfArM

#### B – Individual & Lifespan Differences

##### 1-B-5 *Age-related differences in social risk behavior are associated with dopamine synthesis capacity in the striatum*

Claudia Brunnlieb<sup>1</sup>, Matthew Betts, Ivayla Apostolova<sup>1</sup>, Ralph Buchert<sup>2</sup>, Coraline Metzger<sup>1</sup>, Holger Amthauer<sup>3</sup>, Emrah Düzel<sup>4</sup>, Bodo Vogt<sup>1</sup>

<sup>1</sup>Otto-von-Guericke University Magdeburg, <sup>2</sup>Charité-Universitätsmedizin Berlin, <sup>3</sup>University Hospital Magdeburg, <sup>4</sup>University Hospital Magdeburg; University College London

##### 1-B-6 *Changes in sensitivity to risk across the lifespan*

Georgina Moreno<sup>1</sup>, Peter Sokol-Hessner<sup>2</sup>, Elizabeth Phelps<sup>1</sup>

<sup>1</sup>New York University, <sup>2</sup>University of Denver

##### 1-B-7 *Adult Age Differences in Neural Representations of Value in Time, Probability and Effort Discounting Tasks*

Kendra Seaman<sup>1</sup>, Teresa Karrer<sup>1</sup>, Nickolas Brooks<sup>1</sup>, Linh Dang<sup>2</sup>, Ming Hsu<sup>3</sup>, David Zald<sup>2</sup>, Gregory Samanez-Larkin<sup>1</sup>

<sup>1</sup>Yale University, <sup>2</sup>Vanderbilt University, <sup>3</sup>University of California Berkeley

#### C – Finance

##### 1-C-8 *Cognitive Capacities, Trading Styles and Experimental Asset Market Bubbles*

Frédéric Schneider<sup>1</sup>, Steve Heinke<sup>1</sup>, Andreas Hefti<sup>1</sup>

<sup>1</sup>University of Zurich

### **1-C-9 Neural correlates of financial decisions during a real Direct Access Trading (DAT) session: an fMRI study**

GianMario Raggetti<sup>1</sup>, Maria Gabriella Ceravolo<sup>1</sup>, Lucrezia Fattobene<sup>2</sup>

<sup>1</sup>Università Politecnica delle Marche, <sup>2</sup>Università degli Studi di Roma 'Tor Vergata'

## **D – Consumer Behavior & Marketing**

### **1-D-10 Which brands go together? Neural response patterns during visual imagery of consumer brands are associated with subsequent evaluations on co-branding**

Hang Yee Chan<sup>1</sup>, Maarten A.S. Boksem<sup>1</sup>, Jennifer van den Berg<sup>1</sup>, Ale Smidts<sup>1</sup>

<sup>1</sup>Rotterdam School of Management

### **1-D-11 Neural measures of evoked emotions in predicting advertising effectiveness**

Esther Eijlers<sup>1</sup>, Maarten Boksem<sup>1</sup>, Ale Smidts<sup>1</sup>

<sup>1</sup>Rotterdam School of Management, Erasmus University Rotterdam

### **1-D-12 A classification of brand evangelism through temperamental and psychological measures**

Dario Menicagli<sup>1</sup>, Alessandro Gandolfo<sup>2</sup>, Silvio Ravaioli<sup>3</sup>, Daniele Dalli<sup>1</sup>, Paolo Bongioanni<sup>4</sup>, Emiliano Ricciardi<sup>1</sup>

<sup>1</sup>University of Pisa, <sup>2</sup>Department of Economics and Management, <sup>3</sup>Sant'Anna School of Advanced Studies, <sup>4</sup>University Hospital of Pisa

## **E – Risk & Uncertainty**

### **1-E-13 Traders' Decision-Making Processes: Results from psychometric tests and investment simulation**

Roberto Da Rocha Lima Filho<sup>1</sup>, Armando Rocha<sup>2</sup>, Eduardo Massad<sup>1</sup>

<sup>1</sup>University of São Paulo, <sup>2</sup>Enscer

### **1-E-14 Social modulation of risky behaviors**

Kim Fairley<sup>1</sup>, Jacob M. Parelman<sup>1</sup>, Danielle Farrant<sup>2</sup>, R. McKell Carter<sup>2</sup>

<sup>1</sup>Intermountain Neuroimaging Consortium, University of Colorado Boulder, <sup>2</sup>Intermountain Neuroimaging Consortium & Department of Psychology and Neuroscience, University of Col

### **1-E-15 Decomposing risk representation in parietal cortex**

Shabnam Hakimi<sup>1</sup>, John Clithero<sup>2</sup>, O'Daniel Mullette-Gillman<sup>3</sup>, David Smith<sup>4</sup>, R McLaurin<sup>5</sup>, Adrienne Taren<sup>6</sup>, Vinod Venkatraman<sup>7</sup>, Scott Huettel<sup>5</sup>, McKell Carter<sup>1</sup>

<sup>1</sup>University of Colorado, Boulder, <sup>2</sup>Pomona College, <sup>3</sup>National University of Singapore, <sup>4</sup>Rutgers University, <sup>5</sup>Duke University, <sup>6</sup>University of Pittsburgh, <sup>7</sup>Temple University

### **1-E-16 Toward a Greater Moderation: Neuroeconomics-based financial-system regulation may reduce bubble-crash effects of brain risk-seeking and -avoiding networks**

John Haracz<sup>1</sup>

<sup>1</sup>Indiana University

### **1-E-17 Tracing Intuition and Deliberation in Risky Decision Making for Oneself and Others**

Jan Hausfeld<sup>1</sup>, Kinga Posadzy<sup>2</sup>

<sup>1</sup>University of Konstanz, <sup>2</sup>Linköping University

## **F – Intertemporal Decision-Making & Self-Control**

### **1-F-19 Models of Discounted Utility in Intertemporal choices: Group vs. Individual Analysis**

Camila Agostino<sup>1</sup>, Yossi Zana<sup>1</sup>, Fuat Balci<sup>2</sup>

<sup>1</sup>Federal University of ABC, <sup>2</sup>Koç University

### **1-F-21 Reducing left dlPFC excitability with tDCS affects weighting, but not timing, of food attributes during dietary choice**

Anjali Raja Beharelle<sup>1</sup>, Silvia Maier<sup>1</sup>, Rafael Polanía<sup>1</sup>, Christian Ruff<sup>1</sup>, Todd Hare<sup>1</sup>

<sup>1</sup>University of Zurich

### **1-F-22 Attention to a common healthy consequence in food gambles diminishes dietary self-control**

Nicolette Sullivan<sup>1</sup>, Jonathan Winkle<sup>1</sup>, Michael Platt<sup>2</sup>, Gavan Fitzsimons<sup>1</sup>, Scott Huettel<sup>1</sup>

<sup>1</sup>Duke University, <sup>2</sup>University of Pennsylvania

## **G – Computational Modeling**

### **1-G-23 Modeling choices and response times during reinforcement learning**

Laura Fontanesi<sup>1</sup>, Sebastian Gluth<sup>1</sup>, Mikhail Spektor<sup>1</sup>, Joerg Rieskamp<sup>1</sup>

<sup>1</sup>University of Basel

### **1-G-24 Testing the selective integration model with the dot-probe technique**

Moshe Glickman<sup>1</sup>, Konstantinos Tsetsos<sup>2</sup>, Marius Usher<sup>1</sup>

<sup>1</sup>Tel-Aviv University, <sup>2</sup>University Medical Center Hamburg-Eppendorf (UKE)

### **1-G-25 Parsimony and prediction errors: Ventral striatal PEs are not uniquely explained by parameterized learning models**

Tasha Poppa<sup>1</sup>, Damien Brevers<sup>1</sup>, Antoine Bechara<sup>1</sup>

<sup>1</sup>University of Southern California

## **H – Game Theory & Strategic Interactions**

### **1-H-26 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 Declerck<sup>1</sup>, Christophe Boone<sup>1</sup>, Bruno Lambert<sup>1</sup>, Paul Parizel<sup>1</sup>

<sup>1</sup>University of Antwerp

### **1-H-27 What Drives the Theory of Mind Network? Disentangling the Effects of Social Context from the Prediction Problem.**

Christopher Hill<sup>1</sup>, Jean Daunizeau<sup>2</sup>, Christian Ruff<sup>1</sup>

<sup>1</sup>University of Zürich, <sup>2</sup>Institut du Cerveau et de la Moelle épinière (ICM)

### **1-H-28 Visual search patterns predict the level of sophistication in interactive games**

Luca Polonio<sup>1</sup>, Joshua Zonca<sup>1</sup>, Giorgio Coricelli<sup>2</sup>

<sup>1</sup>University of Trento, <sup>2</sup>University of Southern California

## POSTER SESSIONS

### I – Learning & Memory

#### 1-I-29 *Dynamic computation of hierarchical prediction errors during sequence learning*

Rong Guo<sup>1</sup>, Felix Blankenburg<sup>2</sup>, Jan Gläscher<sup>3</sup>, Klaus Obermayer<sup>1</sup>

<sup>1</sup>Technische Universität Berlin, <sup>2</sup>Freie Universität Berlin, <sup>3</sup>University Medical Center Hamburg-Eppendorf

#### 1-I-30 *Neural evidence for non-reward prediction errors in the auditory cortex*

Guillermo Horga<sup>1</sup>, Esther Jung<sup>1</sup>, Nathaniel Daw<sup>2</sup>

<sup>1</sup>Columbia University, <sup>2</sup>Princeton University

#### 1-I-31 *Observational Learning and Intelligence*

Alexander Vostroknutov<sup>1</sup>, Luca Polonio<sup>1</sup>, Giorgio Coricelli<sup>1</sup>

<sup>1</sup>University of Trento

### J – Valuation & Value Systems

#### 1-J-32 *Managing a zoo with the medial prefrontal cortex*

Keno Juchems<sup>1</sup>, Jill O'Reilly<sup>1</sup>, Chris Summerfield<sup>1</sup>

<sup>1</sup>University of Oxford

#### 1-J-33 *Observational Learning Increases Goal-Directed Control*

Brenton Keller<sup>1</sup>, Giorgio Coricelli<sup>1</sup>

<sup>1</sup>University of Southern California

#### 1-J-34 *A framework to reveal brain functional phenotypes: the case of the brain valuations system(s)*

Kaustubh Patil<sup>1</sup>, Stefano Plaminteri<sup>2</sup>, Mael Lebreton<sup>3</sup>

<sup>1</sup>MIT, <sup>2</sup>ENS, <sup>3</sup>Universiteit van Amsterdam

#### 1-J-35 *Brain mediators of Marketing Placebo Effects on Experienced Pleasantness*

Liane Schmidt<sup>1</sup>, Vasilisa Skvortsova<sup>2</sup>, Christina Walz<sup>3</sup>, Claus Kullen<sup>3</sup>, Bernd Weber<sup>3</sup>, Hilke Plassmann<sup>4</sup>

<sup>1</sup>INSERM U960, Laboratoire de Neurosciences cognitives, <sup>2</sup>Ecole Normale Supérieure, <sup>3</sup>Brain&Life Center, University Bonn, <sup>4</sup>INSEAD

#### 1-J-36 *Finding it hard to change your mind after one bad experience? You might be too Bayesian.*

Yeon Soon Shin<sup>1</sup>, Yael Niv<sup>1</sup>

<sup>1</sup>Princeton University

### K – Choice & Choice Systems

#### 1-K-37 *Evidence for Revealed Similarity in Value-based Choice Behavior*

Mel Win Khaw<sup>1</sup>, Silvio Ravaoli<sup>1</sup>, Michael Woodford<sup>1</sup>

<sup>1</sup>Columbia University

#### 1-K-38 *Modulation of motor cortex excitability during third-party punishment: a TMS study*

Emanuele Lo Gerfo<sup>1</sup>, Stefania Ottone<sup>1</sup>, Luca Zari<sup>2</sup>, Ferruccio Ponzano<sup>3</sup>, Alberto Pisoni<sup>1</sup>, Alessandra Vergallito<sup>1</sup>, Davide Fedeli<sup>1</sup>, Leonor Josephina Romero Lauro<sup>1</sup>

<sup>1</sup>University of Milano Bicocca, <sup>2</sup>University of Verona, <sup>3</sup>University of Piemonte Orientale

#### 1-K-39 *Causal neural networks underlying social norm compliance*

Marius Moisa<sup>1</sup>, Giuseppe Ugazio<sup>1</sup>, Marcus Grueschow<sup>1</sup>, Christopher Hill<sup>1</sup>, Ernst Fehr<sup>1</sup>, Christian Ruff<sup>1</sup>

<sup>1</sup>University of Zurich

#### 1-K-40 *Same, same but different? Evidence accumulation across moral and non-moral domains*

Philip Pärnamets<sup>1</sup>, Lars Hall<sup>2</sup>, Petter Johansson<sup>2</sup>

<sup>1</sup>Karolinska Institutet, <sup>2</sup>Lund University

#### 1-K-41 *Neural mechanisms of control aversion during social decision making*

Sarah Rudolf<sup>1</sup>, Thomas Baumgartner<sup>1</sup>, Katrin Schmelz<sup>2</sup>, Urs Fischbacher<sup>3</sup>, Daria Knoch<sup>1</sup>

<sup>1</sup>University of Bern, <sup>2</sup>University of Konstanz, <sup>3</sup>Thurgau Institute of Economics

#### 1-K-42 *Contributions of neural adaptation to value-based and perceptual choice*

Oihane Horno<sup>1</sup>, Mehran Spitmaan<sup>1</sup>, Alireza Soltani<sup>1</sup>

<sup>1</sup>Dartmouth College

#### 1-K-43 *Independence of Irrelevant Alternatives in Decisions from Experience: A Challenge for Reinforcement Learning Models*

Mikhail Spektor<sup>1</sup>, Sebastian Gluth<sup>1</sup>, Laura Fontanesi<sup>1</sup>, Jörg Rieskamp<sup>1</sup>

<sup>1</sup>University of Basel

#### 1-K-44 *Simple Economic Choice in Large Choice Sets: An Investigation of Hick's Law*

Armin Thomas<sup>1</sup>, Ian Krajbich<sup>2</sup>

<sup>1</sup>Technische Universität Berlin, <sup>2</sup>Ohio State University

#### 1-K-45 *Neural signatures of rational and heuristic strategies: an EEG analysis*

Szymon Wichary<sup>1</sup>, Mikolaj Magnuski<sup>1</sup>, Tomasz Oleksy<sup>2</sup>, Aneta Brzezicka<sup>1</sup>

<sup>1</sup>SWPS University of Social Sciences and Humanities, <sup>2</sup>University of Warsaw

#### 1-K-46 *Loss aversion predicts reliance on goal-directed control*

Alec Solway<sup>1</sup>, Terry Lohrenz<sup>1</sup>, Read Montague<sup>1</sup>

<sup>1</sup>Virginia Tech Carilion Research Institute

### L – Social Rewards & Social Preferences

#### 1-L-47 *Neural encoding of welfare during interpersonal utility comparisons*

Christopher Burke<sup>1</sup>, Philippe Tobler<sup>1</sup>

<sup>1</sup>University of Zurich

#### 1-L-48 *Cognitive dynamics of promise keeping vs. promise breaking*

Cinzia Calluso<sup>1</sup>, Anne Saulin<sup>1</sup>, Thomas Baumgartner<sup>1</sup>, Daria Knoch<sup>1</sup>

<sup>1</sup>Institute of Psychology, University of Bern



**1-L-49 Cognitive Processes of Distributional Preferences: A Response Time Study**

Fadong Chen<sup>1</sup>, Urs Fischbacher<sup>1</sup>

<sup>1</sup>University of Konstanz

**1-L-50 Learning changes group identification**

Björn Lindström<sup>1</sup>, Grit Hein, Alexander Soutcheck, Pyungwon Kang, Philippe Tobler

<sup>1</sup>University of Zurich

**1-L-51 Arginine vasopressin receptor gene (AVPR1A) is associated with human prosociality**

Kuniyuki Nishina<sup>1</sup>, Haruto Takagishi<sup>1</sup>, Miho Inoue-Murayama<sup>2</sup>, Hidehiko Takahashi<sup>2</sup>, Toshio Yamagishi<sup>3</sup>

<sup>1</sup>Tamagawa University, <sup>2</sup>Kyoto University, <sup>3</sup>Hitotsubashi University

**1-L-52 Validating an automated version of the rodent prosocial choice task**

Lisa Schönfeld<sup>1</sup>, Sandra Schäble<sup>1</sup>, Marijn van Wingerden<sup>1</sup>, Anton Ilango<sup>1</sup>, Tobias Kalenscher<sup>1</sup>

<sup>1</sup>Heinrich Heine University Düsseldorf

**1-L-53 A behavioral and neural exploration of deception**

Anastasia Shuster<sup>1</sup>, Dino Levy<sup>1</sup>

<sup>1</sup>Tel Aviv University

**1-L-54 Distinct Subregions within the Temporoparietal Junction and Posterior Cingulate Uniquely Track Prosocial Decision-Making**

Amanda Utevsky<sup>1</sup>, David Smith<sup>2</sup>, Vinod Venkatraman<sup>3</sup>, Scott Huettel<sup>1</sup>

<sup>1</sup>Duke University, <sup>2</sup>Rutgers University, <sup>3</sup>Temple University

**1-L-55 Facial Electromyography Reveals Dissociable Affective Responses in Social and Non-Social Cooperation**

André Weinreich<sup>1</sup>, Alexander Soutschek<sup>2</sup>

<sup>1</sup>Humboldt-Universität zu Berlin, <sup>2</sup>Universität Zürich

**1-L-56 Benefitting and punishing others: the dissociable impact of induced "care" and "power" motivation on economic interactions**

Gabriele Chierchia<sup>1</sup>, Franca Parianan Lesemann<sup>1</sup>, Dennis Snower<sup>2</sup>, Tania Singer<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Cognitive and Brain Sciences, <sup>2</sup>Kiel Institute for the World Economy

**Poster Session 2**

**Monday, August 29, 2016**

**A – Emotion & Affect**

**2-A-1 Affective Neuroscience meets Labor Economics: Assessing Non-Cognitive skills on Late Stage Investment on at-Risk Youth**

Pablo Egana del Sol<sup>1</sup>

<sup>1</sup>Columbia University

**2-A-2 Neuroscience & big data: Lawful patterns of approach/avoidance behavior across several thousand subjects**

John Sheppard<sup>1</sup>, Sherri Livengood<sup>1</sup>, Byoung Kim<sup>2</sup>, Myung Lee<sup>3</sup>, Hans Breiter<sup>1</sup>, Anne Blood<sup>3</sup>

<sup>1</sup>Northwestern University, <sup>2</sup>Massachusetts General Hospital and Harvard Medical School, <sup>3</sup>Harvard Medical School

**2-A-3 If only I had chosen differently! EEG manifestations of comparison between received and alternative outcomes**

Deborah Marciano-Romm<sup>1</sup>, Sacha Bourgeois-Gironde<sup>2</sup>, Leon Deouell<sup>1</sup>

<sup>1</sup>Hebrew University of Jerusalem, <sup>2</sup>Université Paris 2, Paris, France; Institut Jean-Nicod, École Normale Supérieure, Paris, France

**2-A-4 Emotion-induced changes in loss aversion are associated with altered neural value representations and functional connectivity of the amygdala**

Stefan Schulreich<sup>1</sup>, Holger Gerhardt<sup>2</sup>, Dar Meshi<sup>1</sup>, Hauke Heekeren<sup>1</sup>

<sup>1</sup>Freie Universität Berlin, <sup>2</sup>Universität Bonn

**B – Individual & Lifespan Differences**

**2-B-5 Glucose metabolism modulates effort discounting in normal- and overweight women**

Caroline Burrasch<sup>1</sup>, Nils Kroemer<sup>2</sup>, Maria Veldhuizen<sup>3</sup>, Roberta Delvy<sup>3</sup>, Dana Small<sup>3</sup>

<sup>1</sup>Universität zu Lübeck, <sup>2</sup>TU Dresden, <sup>3</sup>John B. Pierce Laboratory

**2-B-6 The development of self-control: inhibition and delay discounting**

Ili Ma<sup>1</sup>, Erik de Water<sup>2</sup>, Gabry Mies<sup>2</sup>, Anouk Scheres<sup>2</sup>

<sup>1</sup>Donders Institute Radboud University, <sup>2</sup>Behavioural Science Institute Radboud University

**C – Finance**

**2-C-7 The Neurofinance of The Home Bias Puzzle: A Dual-Process Model**

Marco Cecchini, Sebastiano Massaro<sup>1</sup>

<sup>1</sup>Warwick Business School

**2-C-8 Can brain activity predict stock prices?**

Mirre Stallen<sup>1</sup>, Nicholas Borg<sup>1</sup>, Parimarjan Negi<sup>1</sup>, Brian Knutson<sup>1</sup>

<sup>1</sup>Stanford University

**E – Risk & Uncertainty**

**2-E-9 Adaptive decision-making in mice with neuron-type specific inactivation of glutamate receptors in the dopamine system**

Przemyslaw Cieslak<sup>1</sup>, Jan Rodriguez Parkitna<sup>1</sup>

<sup>1</sup>Institute of Pharmacology of the Polish Academy of Sciences

**2-E-10 Reward accumulation and the dynamics of risky choice**

Keno Juchems<sup>1</sup>, Jan Balaguer<sup>1</sup>, Maria Ruz<sup>2</sup>, Chris Summerfield<sup>1</sup>

<sup>1</sup>University of Oxford, <sup>2</sup>University of Granada

**2-E-11 Reason's enemy is not emotion: Engagement of cognitive control networks explains biases in gain/loss framing**

Rosa Li<sup>1</sup>, David Smith<sup>2</sup>, John Clithero<sup>3</sup>, Vinod Venkatraman<sup>2</sup>, R. McKell Carter<sup>4</sup>, Scott Huettel<sup>1</sup>

<sup>1</sup>Duke University, <sup>2</sup>Temple University, <sup>3</sup>Pomona College, <sup>4</sup>University of Colorado Boulder

## POSTER SESSIONS

### 2-E-12 *Self-Other differences in dynamic risk-taking*

Annabel Losecaat Vermeer<sup>1</sup>, Alan Sanfey<sup>2</sup>, Francesco Foroni<sup>3</sup>, Raffaella Rumiati<sup>3</sup>

<sup>1</sup>University of Vienna, <sup>2</sup>Radboud University Nijmegen,

<sup>3</sup>International School for Advanced Studies (SISSA)

### 2-E-13 *Lifetime stress exposure correlates with ambiguity aversion*

Benjamin Lu<sup>1</sup>, Candace Raio<sup>1</sup>, Michael Grubb<sup>1</sup>, Grant Shields<sup>2</sup>, George Slavich<sup>3</sup>, Paul Glimcher<sup>1</sup>

<sup>1</sup>New York University, <sup>2</sup>University of California, Davis,

<sup>3</sup>University of California, Los Angeles

### 2-E-14 *Human information seeking behavior is influenced by reward in addition to the reduction of uncertainty*

Silvio Ravaoli<sup>1</sup>, Adrien Baranès<sup>1</sup>, Michael Woodford<sup>1</sup>, Jacqueline Gottlieb<sup>1</sup>

<sup>1</sup>Columbia University

### 2-E-15 *Normalization model offers an alternative explanation of the origins of endowment effect*

Agnieszka Tymula<sup>1</sup>, Paul Glimcher<sup>2</sup>

<sup>1</sup>University of Sydney, <sup>2</sup>New York University

### 2-E-16 *Trading off information against reward in time in a perceptual decision task*

Mu-Chen Wang<sup>1</sup>, Shih-Wei Wu<sup>1</sup>

<sup>1</sup>National Yang-Ming University

### 2-E-17 *Risk for me or risk for others, decision for strangers reduce the degree of loss aversion*

Qiang Shen<sup>1</sup>, Haoye Sun<sup>2</sup>, Lei Wang<sup>2</sup>

<sup>1</sup>Zhejiang University of Technology, <sup>2</sup>Zhejiang University

### 2-E-18 *Investigating the building blocks of naturalistic risk-taking: Risk-perception in the Balloon Analogue Risk Task*

Oliver Schuermann<sup>1</sup>

<sup>1</sup>University of Basel

## F – Intertemporal Decision-Making & Self-Control

### 2-F-18 *The role of time ambiguity in intertemporal choice*

Iris Ikink<sup>1</sup>, Jan Engelmann<sup>2</sup>, Wouter van den Bos<sup>3</sup>, Karin Roelofs<sup>1</sup>, Bernd Figner<sup>1</sup>

<sup>1</sup>Radboud University, Behavioural Science Institute and Donders Institute for Brain, Cognition, and Behavior,

<sup>2</sup>University of Amsterdam, Amsterdam School of Economics

<sup>3</sup>Center for Adaptive Rationality, Max Planck Institute for Human Development

### 2-F-19 *Incentivized inhibition: The role of connections from the ventrolateral prefrontal cortex to the anterior insula.*

Josiah Leong<sup>1</sup>, Kelly Hennigan<sup>1</sup>, Gregory Samanez-Larkin<sup>2</sup>, Brian Knutson<sup>1</sup>

<sup>1</sup>Stanford University, <sup>2</sup>Yale University

### 2-F-20 *Assumptions of linear utility systematically bias estimations of impulsivity*

Silvia Lopez-Guzman<sup>1</sup>, Anna Konova<sup>1</sup>, Kenway Louie<sup>1</sup>, Paul Glimcher<sup>1</sup>

<sup>1</sup>NYU

### 2-F-21 *Disrupting the temporo-parietal junction reveals role of overcoming self-centeredness in delay of gratification*

Alexander Soutschek<sup>1</sup>, Christian Ruff<sup>1</sup>, Tobias Kalenscher<sup>2</sup>, Philippe Tobler<sup>1</sup>

<sup>1</sup>University of Zurich, <sup>2</sup>Heinrich-Heine University of Dusseldorf

## G – Computational Modeling

### 2-G-22 *Forming a Desired Belief: A Computational Account*

Donal Cahill<sup>1</sup>, Tali Sharot<sup>1</sup>

<sup>1</sup>UCL

### 2-G-23 *Golf Theory, a geometrical modeling approach to decision process*

Mohsen Falahi<sup>1</sup>, Kerstin Preuschoff<sup>1</sup>

<sup>1</sup>University of Geneva

### 2-G-24 *Discreteness and Delay in Adjustment to a Changing Environment: Experimental Evidence*

Mel Win Khaw<sup>1</sup>, Luminata Stevens<sup>2</sup>, Michael Woodford<sup>1</sup>

<sup>1</sup>Columbia University, <sup>2</sup>University of Maryland

### 2-G-25 *Studying value guided decision making through model-based multivariate fMRI*

Angela Radulescu<sup>1</sup>, Carsten Allefeld<sup>2</sup>, Nicolas Schuck<sup>1</sup>, John-Dylan Haynes<sup>2</sup>, Yael Niv<sup>1</sup>

<sup>1</sup>Princeton University, <sup>2</sup>Charité – Universitätsmedizin Berlin

## H – Game Theory & Strategic Interactions

### 2-H-26 *Serotonin depletion is associated with increased aggressive behavior in the Hawk-Dove game*

Paul Bengart<sup>1</sup>, Bodo Vogt<sup>1</sup>

<sup>1</sup>Otto-von-Guericke University Magdeburg

### 2-H-27 *Proposer's fairness in the Ultimatum Game: An Event Related Potentials study*

Alessandra Lintas<sup>1</sup>, Sarat Chandra Vysyaraju<sup>2</sup>, Alessandro Villa<sup>1</sup>

<sup>1</sup>University of Lausanne, <sup>2</sup>Columbia University

### 2-H-28 *Sophisticated attention comes into play: linking relational representation in reasoning and strategic sophistication in games*

Joshua Zonca<sup>1</sup>, Luca Polonio<sup>1</sup>, Giorgio Coricelli<sup>2</sup>

<sup>1</sup>University of Trento/Cimec, <sup>2</sup>University of Southern California

## I – Learning & Memory

### 2-I-29 *Human Striatum Represents Bayesian Surprise, Not Prediction Error, in Categorization Learning*

Ian Ballard<sup>1</sup>, Samuel McClure<sup>2</sup>

<sup>1</sup>Stanford University, <sup>2</sup>Arizona State University

### 2-I-31 *Physiological markers during adaptive learning in a changing environment*

Chang-Hao Kao<sup>1</sup>, Joseph Kable<sup>1</sup>

<sup>1</sup>University of Pennsylvania

## **J – Valuation & Value Systems**

### **2-J-32 Bias in valuation of economic information and its neural correlates**

Kenji Kobayashi<sup>1</sup>, Ming Hsu<sup>1</sup>  
<sup>1</sup>UC Berkeley

### **2-J-33 Removing the curse of dimensionality: a trade-off between adaptability and precision**

Shiva Farashahi<sup>1</sup>, Katherine Rowe<sup>1</sup>, Zohra Aslami<sup>1</sup>, Alireza Soltani<sup>1</sup>  
<sup>1</sup>Dartmouth College

### **2-J-34 Neural correlates of subjective preferences and the aesthetic experience of visual art**

Philipp Fiessinger<sup>1</sup>, Petra Beschoner<sup>1</sup>, Lisa Dommes<sup>1</sup>, Julia Bosch<sup>2</sup>, Manuela Marin<sup>3</sup>, Julia Stingl<sup>4</sup>, Roberto Viviani<sup>5</sup>  
<sup>1</sup>University of Ulm, <sup>2</sup>University of Ulm/Innsbruck, <sup>3</sup>University of Innsbruck, <sup>4</sup>BfArM, <sup>5</sup>University of Innsbruck/Ulm

### **2-J-35 Individuals with ventromedial prefrontal damage have preferences that are more unstable, but fundamentally transitive**

Linda Yu<sup>1</sup>, Jason Dana<sup>2</sup>, Joseph Kable<sup>1</sup>  
<sup>1</sup>University of Pennsylvania, <sup>2</sup>Yale School of Management

### **2-J-36 Impact of selective attention on value-based vs perceptual choice**

Shuli Yu<sup>1</sup>, Timothy Pleskac<sup>1</sup>  
<sup>1</sup>Max Planck Institute for Human Development

## **K – Choice & Choice Systems**

### **2-K-37 Towards a Mathematical Description of Similarities and Differences in Physical and Cognitive Effort Discounting**

Przemyslaw Marcowski<sup>1</sup>, Wojciech Bialaszek<sup>1</sup>, Pawel Ostaszewski<sup>1</sup>  
<sup>1</sup>SWPS University of Social Sciences and Humanities

### **2-K-38 Mistakes Were Made: The Causal Role of the Superior Frontal Sulcus in Perceptual Choices in a Combined TMS-fMRI Study**

Miguel Antonio Garcia<sup>1</sup>, Marcus Grueschow<sup>1</sup>, Rafael Polania<sup>1</sup>, Marius Moisa<sup>1</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zurich

### **2-K-39 Value-based attentional capture impairs trinary choice**

Sebastian Gluth<sup>1</sup>, Mikhail Spektor<sup>1</sup>, Jörg Rieskamp<sup>1</sup>  
<sup>1</sup>University of Basel

### **2-K-40 The role of GABA and glutamate in anterior cingulate cortex during strategic patch-leaving choices**

Theo Gruendler<sup>1</sup>, Oliver Speck<sup>1</sup>, Gerhard Jocham<sup>1</sup>  
<sup>1</sup>Otto-von-Guericke University

### **2-K-41 How arousal enhances optimal decision making in the human brain**

Marcus Grueschow<sup>1</sup>, Rafael Polania<sup>1</sup>, Todd Hare<sup>1</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zürich

### **2-K-42 Revealed Indifference: Using Response Times to Infer Preferences**

Arkady Konovalov<sup>1</sup>, Ian Krajbich<sup>1</sup>  
<sup>1</sup>The Ohio State University

### **2-K-43 Naturally nice and controlled: effects of exposure to nature on stress and decision making**

Jeffrey Stevens<sup>1</sup>  
<sup>1</sup>University of Nebraska-Lincoln

### **2-K-44 New flavor of the exploration-exploitation trade-off in contextual multi-armed bandit problems**

Hrvoje Stojic<sup>1</sup>, Pantelis Analytis<sup>2</sup>, Maarten Speekenbrink<sup>3</sup>  
<sup>1</sup>Universitat Pompeu Fabra, <sup>2</sup>Max Planck Institute for Human Development, <sup>3</sup>University College London

### **2-K-45 (Only) remembered choices shape future preferences**

Katharina Voigt<sup>1</sup>, Sebastian Speer<sup>2</sup>, Carsten Murawski<sup>1</sup>, Stefan Bode<sup>1</sup>  
<sup>1</sup>The University of Melbourne, <sup>2</sup>The University of Amsterdam

### **2-K-46 How election results change the recall of our predictions? An fMRI study on the Hindsight Bias of political election**

Yin-Hua Chen<sup>1</sup>, Hsu-Po Cheng<sup>1</sup>, Yu-Wen Lu<sup>1</sup>, Pei-Hong Lee<sup>1</sup>, Georg Northoff<sup>2</sup>, Nai-Shing Yen<sup>1</sup>  
<sup>1</sup>National Chengchi University, <sup>2</sup>University of Ottawa

### **2-K-47 An fMRI Study of A Neural Mechanism: A Competitive Certainty and Immediate Reward**

Hiroyasu Yoneda<sup>1</sup>  
<sup>1</sup>Keiai University

## **L – Social Rewards & Social Preferences**

### **2-L-48 Neural mechanisms of promises, and the punishment of broken promises**

Xu Gong<sup>1</sup>, Alan Sanfey<sup>2</sup>  
<sup>1</sup>Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, <sup>2</sup>Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, University Nijmegen

### **2-L-49 Neural and Computational Basis of Pay-it-Forward Reciprocity: An fMRI Investigation**

Yang Hu<sup>1</sup>, Thorben Wölk<sup>1</sup>, Lisheng He<sup>2</sup>, Bernd Weber<sup>1</sup>  
<sup>1</sup>University of Bonn, <sup>2</sup>The University of Warwick

### **2-L-50 Neuroendocrinological signatures of social discounting**

Tobias Kalenscher<sup>1</sup>, Zsafia Margittai<sup>1</sup>  
<sup>1</sup>Heinrich Heine University Düsseldorf

### **2-L-51 Inequality of Opportunity and Giving behavior**

Leticia Micheli<sup>1</sup>, Kelly Geyskens<sup>1</sup>, Caroline Goukens<sup>1</sup>  
<sup>1</sup>Maastricht University

### **2-L-52 Lying for the Greater Good: The Role of Executive-Control and Theory-of-Mind Neural Processes on Pro-Social Deception**

Narun Pornpattananangkul<sup>1</sup>, Shanshan Zhen<sup>2</sup>, Rongjun Yu<sup>1</sup>  
<sup>1</sup>National University of Singapore, <sup>2</sup>South China Normal University

### **2-L-53 The Leader or the Subordinate as a social performer? - The impact of hierarchy rank on social conformity in rats**

Sandra Schäble<sup>1</sup>, Tobias Kalenscher<sup>1</sup>  
<sup>1</sup>Heinrich-Heine-University

## POSTER SESSIONS

### **2-L-54** *A matter of distance - The effect of oxytocin on cooperative behavior depends on social distance*

Sabrina Strang<sup>1</sup>, Holger Gerhardt<sup>2</sup>, Nina Marsh<sup>3</sup>, Yang Hu<sup>2</sup>, René Hurlemann<sup>1</sup>, Soyoung Park<sup>1</sup>

<sup>1</sup>University of Lübeck, <sup>2</sup>University of Bonn, <sup>3</sup>University Hospital Bonn

### **2-L-55** *Mapping the motivations for Trust Game reciprocity*

Jeroen van Baar<sup>1</sup>, Luke Chang<sup>2</sup>, Alan Sanfey<sup>1</sup>

<sup>1</sup>Radboud University Nijmegen, <sup>2</sup>Dartmouth College

## **Poster Session 3**

Tuesday, August 30, 2016

### **A – Emotion & Affect**

#### **3-A-1** *Sleep Deprivation Alters the Integration of Affect in Subsequent Evaluations*

Aiqing Ling<sup>1</sup>, Irma Kurniawan<sup>2</sup>, Michael Chee<sup>2</sup>, Hilke Plassmann<sup>1</sup>

<sup>1</sup>INSEAD, <sup>2</sup>Duke-NUS Medical School

#### **3-A-2** *Misfortune might be a blessing in disguise: Fairness perception and emotional experience modulate decision making*

Hong-Hsiang Liu<sup>1</sup>, Yin-Dir Hwang<sup>1</sup>, Ming-Hsien Hsieh<sup>1</sup>, Yung-Fong Hsu<sup>1</sup>, Wen-Sung Lai<sup>1</sup>

<sup>1</sup>National Taiwan University

#### **3-A-3** *Insula gray matter volume reflects individual sensitivity to observed injustice*

Thomas Baumgartner<sup>1</sup>, Anne Saulin<sup>1</sup>, Grit Hein<sup>1</sup>, Daria Knoch<sup>1</sup>

<sup>1</sup>University of Bern, Institute of Psychology, Department of Social Psychology and Social Neuroscience

### **B – Individual & Lifespan Differences**

#### **3-B-4** *To ask, task or image? Examining the convergent validity of self-report, behavioral, and neural measures of risk taking and associated constructs in younger and older adults*

Loreen Mamerow<sup>1</sup>, Renato Frey<sup>1</sup>, Rui Mata<sup>1</sup>

<sup>1</sup>University of Basel

#### **3-B-5** *Older adults rely more on simpler decision strategies than younger adults when trading off exploration and exploitation in complex choice environments*

Job Schepens<sup>1</sup>, Ralph Hertwig<sup>1</sup>, Robert Lorenz<sup>1</sup>, Wouter van den Bos<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Development

### **D – Consumer Behavior & Marketing**

#### **3-D-6** *Behavioral and Neural Preference Signals of Architectural Design*

Kaisa Hytönen<sup>1</sup>, Jarmo Heinonen<sup>2</sup>, Sini Maunula<sup>1</sup>, Leeni Minkkinen<sup>2</sup>, Jyrki Suomala<sup>2</sup>

<sup>1</sup>Laurea University of Applied Sciences, <sup>2</sup>Laurea University of Applied Sciences

#### **3-D-7** *Modulation of the automatic approach bias towards high caloric food*

Sergio Oroz Artigas<sup>1</sup>, Sabrina Strang<sup>1</sup>, Nora Swaboda<sup>2</sup>, Soyoung Park<sup>1</sup>

<sup>1</sup>University of Lübeck, <sup>2</sup>Humboldt-Universität Berlin

#### **3-D-8** *Does Red Bull give you wings? Placebo effects of commercially available cognitive enhancers on performance motivation*

Liane Schmidt<sup>1</sup>, Pierre Chandon<sup>1</sup>, Mathias Pessiglione<sup>2</sup>, Hilke Plassmann<sup>1</sup>

<sup>1</sup>INSEAD, <sup>2</sup>Institute du Cerveau et de la Moelle Epiniere

### **E – Risk & Uncertainty**

#### **3-E-9** *Connecting Prospect and Portfolio Theories through Relative Preference Behavior*

John Sheppard<sup>1</sup>, Sherri Livengood<sup>1</sup>, Byoung Kim<sup>2</sup>, Myung Lee<sup>2</sup>, Anne Blood<sup>2</sup>, Hans Breiter<sup>1</sup>

<sup>1</sup>Northwestern University, <sup>2</sup>Harvard Medical School

#### **3-E-10** *Temporal Characterization of Risk Prediction and Error in the Human Brain*

Emanuele De Luca<sup>1</sup>, Elsa Fouragnan<sup>2</sup>, Marios Philiastides<sup>1</sup>

<sup>1</sup>University of Glasgow, <sup>2</sup>University of Oxford

#### **3-E-11** *The neural basis of perceived risk, cognitive constraint, and expected value in temporal instrumental learning*

Michael Hallquist<sup>1</sup>, Alexandre Dombrovski<sup>2</sup>, Kai Hwang<sup>3</sup>, Beatriz Luna<sup>2</sup>

<sup>1</sup>The Pennsylvania State University, <sup>2</sup>University of Pittsburgh, <sup>3</sup>University of California -- Berkeley

#### **3-E-12** *Financial and sensori-motor decisions: Do learning-induced changes in risk-preferences transfer across domains?*

Andreas Jarvstad<sup>1</sup>

<sup>1</sup>University of Oxford

#### **3-E-13** *Risk Aversion as a Perceptual Distortion*

Mel Win Khaw<sup>1</sup>, Michael Woodford<sup>1</sup>

<sup>1</sup>Columbia University

#### **3-E-14** *How the risk-reward relationship shapes decisions under risk and uncertainty*

Christina Leuker<sup>1</sup>, Timothy Pleskac<sup>1</sup>, Thorsten Pachur<sup>1</sup>, Ralph Hertwig<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Development

#### **3-E-15** *Risk and surprise in perceptual and value-based decision making*

Leyla Loued-Khenissi<sup>1</sup>, Adrien Pfeuffer<sup>2</sup>, Wolfgang Einhaueser<sup>3</sup>, Kerstin Preuschoff<sup>4</sup>

<sup>1</sup>Ecole Polytechnique Federale de Lausanne, <sup>2</sup>University of Marburg, <sup>3</sup>Technische Universität Chemnitz, <sup>4</sup>University of Geneva

#### **3-E-16** *The role of statistical learning in a probabilistic gambling task: Strategies and the beginner's luck*

Adam Takacs<sup>1</sup>, Andrea Kóbor<sup>2</sup>, Zsófia Kardos<sup>2</sup>, Karolina Janacsek<sup>2</sup>, Dezsó Nemeth<sup>2</sup>

<sup>1</sup>ELTE, <sup>2</sup>Hungarian Academy of Sciences



**3-E-17 The neural correlates of uncertainty in probability updating and risky decision-making**

Wouter van den Bos<sup>1</sup>, Robert Lorenz<sup>1</sup>, Tim Pleskac<sup>1</sup>, Corinna Laube<sup>1</sup>, Laurianne Vagharchakian<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Development

**3-E-18 Computational substrats for the limits in human probabilistic inference**

Yun-Yen Yang<sup>1</sup>, Shih-Wei Wu<sup>1</sup>

<sup>1</sup>National Yang-Ming University

**F – Intertemporal Decision-Making & Self-Control**

**3-F-19 Dynamic quantification of the subjective cost of self-control**

Candace Raio<sup>1</sup>, Paul Glimcher<sup>1</sup>

<sup>1</sup>New York University

**3-F-20 The influence of short-term aerobic exercise on food decision-making**

Laura Enax<sup>1</sup>, Eva Heiliger<sup>1</sup>, Nadine Gier<sup>1</sup>, Bernd Weber<sup>1</sup>

<sup>1</sup>University of Bonn

**3-F-21 Optimizing incentive design for intertemporal choice**

Shabnam Hakimi<sup>1</sup>, Adrian Ward<sup>2</sup>, Shruthi Sukumar<sup>1</sup>, Camden Elliott-Williams<sup>1</sup>, Michael Mozer<sup>1</sup>

<sup>1</sup>University of Colorado, Boulder, <sup>2</sup>University of Texas, Austin

**3-F-22 Dissociable Effects of Age and Testosterone on Adolescent Impatience**

Corinna Laube<sup>1</sup>, Robert Lorenz<sup>1</sup>, Wouter van den Bos<sup>1</sup>

<sup>1</sup>Max Planck Institute for Human Development

**3-F-23 Positive autobiographical memory retrieval effects on temporal discounting: neural mechanisms**

Karolina Lempert<sup>1</sup>, Megan Speer<sup>2</sup>, Mauricio Delgado<sup>2</sup>, Elizabeth Phelps<sup>1</sup>

<sup>1</sup>New York University, <sup>2</sup>Rutgers University - Newark

**G – Computational Modeling**

**3-G-24 StrategiC Exploration/exploitation of Temporal Instrumental Contingencies (SCEPTIC): a reinforcement learning (RL) model with a memory constraint**

Alexandre Dombrovski<sup>1</sup>, Michael Hallquist<sup>2</sup>

<sup>1</sup>University of Pittsburgh, <sup>2</sup>Penn State University

**3-G-25 How Humans Solve Complex Problems: The Case of the Knapsack Problem**

Carsten Murawski<sup>1</sup>, Peter Bossaerts<sup>1</sup>

<sup>1</sup>The University of Melbourne

**3-G-26 Balancing New Against Old Information: The Role of Surprise in Learning**

Mohammad Faraji<sup>1</sup>, Wulfram Gerstner<sup>1</sup>, Kerstin Preuschoff<sup>2</sup>

<sup>1</sup>EPFL, <sup>2</sup>University of Geneva

**3-G-27 Flexible adaptation of reward-guided learning to the correlation structure of choice alternatives**

Vasilisa Skvortsova<sup>1</sup>, Rémi Dromnelle<sup>1</sup>, Stefano Palminteri<sup>2</sup>, Valentin Wyart<sup>2</sup>

<sup>1</sup>Ecole Normale Supérieure, <sup>2</sup>Ecole Normale Supérieure INSERM U960

**H – Game Theory & Strategic Interactions**

**3-H-28 Inferring the Beliefs of Others during Cooperative Decisions**

Tessa Rusch<sup>1</sup>, Michael Spezio<sup>2</sup>, Jan Gläscher<sup>1</sup>

<sup>1</sup>University Medical Center Hamburg-Eppendorf, <sup>2</sup>Scripps College

**3-H-29 Of love, sticks and stones: Acute stress differentially affects ingroup love and outgroup hate**

Adam Schweda<sup>1</sup>, Zsolia Hangebrauk<sup>1</sup>, Nadira Faber<sup>2</sup>, Molly Crockett<sup>2</sup>, Tobias Kalenscher<sup>1</sup>

<sup>1</sup>Heinrich-Heine-University Düsseldorf, <sup>2</sup>University of Oxford

**I – Learning & Memory**

**3-I-30 Route-based Learning and Map-based Planning during Navigation: Contributions of the Reward System**

Dian Anggraini<sup>1</sup>, Stefan Glasauer<sup>2</sup>, Klaus Wunderlich<sup>1</sup>

<sup>1</sup>Ludwig-Maximilians-Universitaet, <sup>2</sup>Center for Sensorimotor Research Klinikum der Universitaet Muenchen

**3-I-31 Mixed valuation strategies in the context of predictive gaze cues both facilitate and hamper instrumental avoidance learning**

Philip Pärnamets<sup>1</sup>, Andreas Olsson<sup>1</sup>

<sup>1</sup>Karolinska Institutet

**3-I-32 Verbal Descriptions of Others' Ability Corrupt Avoidance Learning from Observing their Behavior**

Ida Selbing<sup>1</sup>, Andreas Olsson<sup>1</sup>

<sup>1</sup>Karolinska Institutet

**J – Valuation & Value Systems**

**3-J-33 Dopaminergic contributions to declining value learning in old age**

Lieke de Boer<sup>1</sup>, Jan Axelsson<sup>2</sup>, Katrine Riklund<sup>2</sup>, Lars Nyberg<sup>2</sup>, Lars Bäckmann<sup>1</sup>, Marc Guitart-Masip<sup>1</sup>

<sup>1</sup>Karolinska Institutet, <sup>2</sup>Umeå University

**3-J-34 Influence of others' choice behavior on observational learning**

Nadège Bault<sup>1</sup>, Tobias Larsen<sup>1</sup>, Luca Polonio<sup>1</sup>, Alexander Vostroknutov<sup>1</sup>, Giorgio Coricelli<sup>2</sup>

<sup>1</sup>University of Trento, <sup>2</sup>University of Southern California

**3-J-35 Model-based Time Frequency Analysis Reveals A Neural Signature of Context-related Reward Processes**

William Cunningham<sup>1</sup>, Vincent Man<sup>1</sup>

<sup>1</sup>University of Toronto

**3-J-36 Rapidly Adaptive Hedonic Utility**

Arthur Robson, Lorne Whitehead<sup>1</sup>

<sup>1</sup>University of British Columbia

**3-J-37 Choosing between human values and food: the Pavlovian substrates of intrinsic preferences**

Roberto Viviani<sup>1</sup>, Lisa Dommes<sup>2</sup>, Julia Bosch<sup>2</sup>, Petra Beschoner<sup>2</sup>, Julia Stingl<sup>3</sup>, Tatjana Schnell<sup>4</sup>

<sup>1</sup>University of Innsbruck/Ulm, <sup>2</sup>University of Ulm, <sup>3</sup>BfArM, <sup>4</sup>University of Innsbruck



## POSTER SESSIONS

### K – Choice & Choice Systems

#### 3-K-38 *Examining the role of memory retrieval in value-based decisions in humans*

Akram Bakkour<sup>1</sup>, Yul HR Kang<sup>1</sup>, Michael Shadlen<sup>1</sup>, Daphna Shohamy<sup>1</sup>

<sup>1</sup>Columbia University

#### 3-K-39 *Pupil dilation reveals latent decision processes in value-based choice*

Wei Chen<sup>1</sup>, Ian Krajbich<sup>1</sup>

<sup>1</sup>The Ohio State University

#### 3-K-40 *Neural mechanisms of choice-induced preference change: EEG study*

Marco Colosio<sup>1</sup>, Anna Shestakova<sup>1</sup>, Vadim Nikulin<sup>2</sup>, Nikita Novikov<sup>1</sup>, Vasily Klucharev<sup>1</sup>

<sup>1</sup>Higher School of Economics, <sup>2</sup>Charité - University Medicine Berlin

#### 3-K-41 *Easy access, easy choice? How attitude accessibility and certainty influence the choice process*

Rachael Gwinn<sup>1</sup>, Ian Krajbich<sup>1</sup>

<sup>1</sup>The Ohio State University

#### 3-K-42 *Methodological investigation of economic consistency and its neural correlates*

Vered Kurtz<sup>1</sup>, Dotan Persitz<sup>1</sup>, Dino Levy<sup>1</sup>

<sup>1</sup>Tel Aviv University

#### 3-K-43 *Is there “value” in preference?*

David Hansel<sup>1</sup>, Lior Lebovich<sup>2</sup>, Yoni Lavi<sup>3</sup>, Ran Darshan<sup>1</sup>, Yonatan Loewenstein<sup>4</sup>

<sup>1</sup>Center for Neurophysics, Physiology and Pathology, CNRS UMR8119 & Université Paris Descartes, P, <sup>2</sup>The Edmond and Lily Safra Center for Brain Sciences, The Hebrew University of Jerusalem, <sup>3</sup>The Institute of Life Sciences, The Hebrew University of Jerusalem

#### 3-K-44 *Individual differences in risk sensitivity and model-free learning predict foraging decisions*

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