



Society for  
NeuroEconomics  
NEUROSCIENCE • PSYCHOLOGY • ECONOMICS



# 17<sup>th</sup> Annual Meeting

Dublin, Ireland

October 4–6, 2019

Clayton Hotel  
Burlington Road

[www.neuroeconomics.org](http://www.neuroeconomics.org) |  [#SNE2019](https://twitter.com/socforneuroecon) | [@socforneuroecon](https://twitter.com/socforneuroecon)

Society for NeuroEconomics Program-at-a-Glance Dublin, Ireland									
Time	Friday October 4, 2019			Saturday October 5, 2019			Sunday October 6, 2019		
8:00	Registration / Information Desk Open Posters on Display (Session 1)			Registration / Information Desk Open Posters on Display (Session 2)			Registration / Information Desk Open Posters on Display (Session 3)		
8:15									
8:30		Welcome & Opening Remarks (08:30 - 8:45)						Announcements (08:30 - 8:45)	
8:45		Session I Valuation and Value System  (8:45 - 10:20)			Session II Learning  (08:45 - 10:20)			Session IV Risk, Effort, and Delay  (08:45 - 10:20)	
9:00									
9:15									
9:30									
9:45									
10:00									
10:15		Poster Spotlights I (10:25 - 10:50)			Poster Spotlights II (10:25 - 10:50)			Poster Spotlights III (10:25 - 10:50)	
10:30		Poster Session I (10:50 - 13:15)			Poster Session II (10:50 - 13:15)			Poster Session III (10:50 - 13:15)	
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13:30	Buffet Lunch (13:15 - 14:15)		Buffet Lunch (13:15 - 14:15)		Buffet Lunch (13:15 - 14:15)				
13:45									
14:00									
14:15									
14:30	The Kavli Foundation Social and Decision Science Workshop I (14:15 - 15:45)		Session III Social Reward and Social Preferences  (14:15 - 15:50)		Session V Choice and Choice Mechanisms  (14:15 - 15:25)				
14:45									
15:00									
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16:00	Coffee Break (15:45 - 16:05)		Break		Session VI Attention  (15:30 - 17:05)				
16:15									
16:30	The Kavli Foundation Social and Decision Science Workshop II (16:05 - 17:35)		Kavli Plenary Lecture  (16:00 - 17:00)						
16:45									
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17:45									
18:00	Networking Cocktail Reception (17:35 - 19:00)		All Attendee Dinner Reception (18:30 - 20:00)						
18:15									
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18:45									
19:00									
19:15	Dinner on Own Pub Meet-Ups		Pub Meet-Ups						
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## ABOUT THE SNE SOCIETY

### OUR MISSION

The mission of the Society for NeuroEconomics is to:

1. Foster research on the foundations of economic behavior by promoting collaboration and discussion among scholars from the psychological, economic, and neural sciences.
2. 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.

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## ANNUAL MEETINGS

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. If you are active on social media, make sure to hashtag **#SNE2019**

*@socforneuroecon*

Thanks to **Fáilte Ireland** for their support of the 2019 Meeting



16 <sup>th</sup> Annual Meeting	October 5 – 7, 2018	Philadelphia	United States
15 <sup>th</sup> Annual Meeting	October 6 – 8, 2017	Toronto	Canada
14 <sup>th</sup> Annual Meeting	August 28 – 30, 2016	Berlin	Germany
13 <sup>th</sup> Annual Meeting	September 25 – 27, 2015	Miami, Florida	United States
12 <sup>th</sup> Annual Meeting	September 26 – 28, 2014	Miami, Florida	United States
11 <sup>th</sup> Annual Meeting	September 27 – 29, 2013	Lausanne	Switzerland
10 <sup>th</sup> Annual Meeting	September 28 – 30, 2012	Miami, Florida	United States
9 <sup>th</sup> Annual Meeting	September 30 – October 2, 2011	Evanston, Illinois	United States
8 <sup>th</sup> Annual Meeting	October 15 – 17, 2010	Evanston, Illinois	United States
7 <sup>th</sup> Annual Meeting	October 15 – 17, 2009	Evanston, Illinois	United States
6 <sup>th</sup> Annual Meeting	September 25 – 28, 2008	Park City, Utah	United States
5 <sup>th</sup> Annual Meeting	September 27 – 30, 2007	Hull, Massachusetts	United States
4 <sup>th</sup> Annual Meeting	September 7 – 10, 2006	Park City, Utah	United States
3 <sup>rd</sup> Annual Meeting	September 15 – 18, 2005	Kiawah Island, South Carolina	United States
2 <sup>nd</sup> Annual Meeting	2004	Kiawah Island, South Carolina	United States
1 <sup>st</sup> Annual Meeting	2003	Martha's Vineyard, Massachusetts	United States

## WELCOME



### Dear Friends and Colleagues,

Fáilte go mBaile Átha Cliath! On behalf of the Society for NeuroEconomics, I am delighted to welcome you all to Dublin for our 17th Annual Meeting. As we gather in Europe for the third time, it is remarkable to observe the truly international scope of our Society, with representation at the meeting from Institutions in over 25 countries. This diversity, in background, approach, methods and theory, is a cornerstone of our interdisciplinary Society, and the Annual Meeting is a wonderful forum for scholars with a variety of expertise critical to our mission of integrating economic, psychological, and neuroscientific approaches to understanding decision-making. In addition to the obvious inherent scientific interest of developing greater insight into perhaps our most essential human behavior, a better understanding of how people make choices is of paramount importance to public health and public policy, where more complete knowledge of how we decide can have real impact on people's lives. Our program this year reflects these twin goals, and I look forward to a productive and inspiring meeting!

I extend a sincere thanks to our Program Committee, who have worked tirelessly to construct a diverse and stimulating program which illustrates the impressive breadth of work in Neuroeconomics. Over the course of our time together in Dublin we will have the opportunity to see 23 talks, 15 poster spotlights, and 3 poster sessions, highlighting exciting avenues of current research and providing a clear demonstration of the vitality of our field.

The Kavli Foundation continues to generously support two unique aspects of our annual meeting, the Kavli Foundation Workshops and the Kavli Foundation Lecture.

The Kavli Foundation Workshops feature invited speakers presenting cutting-edge research topics, aimed towards facilitating the integration of these advances into the field of Neuroeconomics. This year, the Kavli Foundation Workshops on Neuroscience will focus on better understanding the role of information seeking in decision-making, using sophisticated behavioral, computational, and neuroimaging techniques in both humans and non-human primates. Hosting these workshops will be Jacqueline Gottlieb (Columbia University) and Laurence Hunt (University of Oxford). Running in parallel, the Kavli Foundation Workshops on Social and Decision Sciences will concentrate on how Neuroeconomics can contribute to public health, examining the science of eating behavior and how stress and anxiety can perturb decision-making. These workshops will be led by Pierre Chandon (INSEAD) and Karin Roelofs (Donders Institute for Brain, Cognition, and Behavior).

The tenth annual Kavli Foundation Plenary Lecture will be delivered by Peter Dayan, Fellow of the Royal Society, co-recipient of the 2017 Brain Prize, and currently Director of the Max Planck Institute for Biological Cybernetics. Professor Dayan's work on computational neuroscience and reinforcement learning has inspired the work of many scholars in the field of Neuroeconomics, and we are delighted that he has accepted the invitation to attend our meeting and present his work.

The success of our annual meeting depends on the generous support of many organizations and institutions, and we are very appreciative of all who contribute. Alongside the Kavli Foundation, the Institute for the Study of Decision Making at NYU has remained our longest-running Platinum-level sponsor, and we once again extend our thanks to the Institute for their support as well as to all our other sponsors.

Finally, I wish you a wonderful visit to Dublin, and hope that the local culture of conviviality and garrulousness will enhance the typically positive and energizing tone of our Meetings. Much of the pleasure and inspiration from our yearly gatherings emerges from the informal exchanges that take place during the poster sessions, coffee breaks, and social events, and so I would encourage you all to take full advantage of these opportunities to catch up with old friends, make new ones, and develop exciting new collaborations.

Enjoy the meeting!

**Alan Sanfey**  
*President, Society for NeuroEconomics*

## GENERAL MEETING INFORMATION

### MEETING VENUE

**Clayton Hotel Burlington Road**  
Leeson Street Upper  
Dublin 4, Ireland  
D04 A318

### 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 10th Annual Fred Kavli Lecture and a grazing dinner reception on Saturday evening.

### NAME BADGES

Kindly wear your name badge at all time as your admission to the sessions and functions. At the end of the conference you are encouraged to recycle your badge at any of the recycle stations or 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** – PhD 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 is open daily during conference session hours:

Friday, October 4	8:00 – 17:45
Saturday, October 5	8:15 – 17:00
Sunday, October 6	8:00 – 17:00

### WIRELESS INTERNET

Complimentary wireless internet is available to the delegates of the Society of NeuroEconomics Annual Meeting. 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.

1. Network name: **Clayton Hotel Wifi**
2. **No password** is needed to sign in

### 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 during the poster session and please feel free to enjoy your beverage while reviewing the posters. Information on Poster Authors, Poster Numbers and Poster Titles begins on page 17. For a complete copy of the poster abstracts, please see the downloadable pdf abstract book from the Society for NeuroEconomics website.

#### Poster Session I

Set Up: Friday October 4, 2019  
between 08:00 and 08:30  
Session Time: 10:50 – 13:15 **Tear Down: 19:00**

#### Poster Session II

Set Up: Saturday October 5, 2019  
between 08:00 and 08:45  
Session Time: 10:50 – 13:15 **Tear Down: 17:00**

#### Poster Session III

Set Up: Sunday October 6, 2019  
between 08:00 and 08:30  
Session Time: 10:50 – 13:15 **Tear Down: 17:00**

## SOCIAL PROGRAMME

### Networking Cocktail Reception

Friday, October 4, 17:35 - 19:00

Clayton Hotel

### Grazing Dinner Reception

Saturday, October 5, 18:30 – 20:00

The reception will be held at NoLita, 64 South Great George's Street. Located in the heart of Dublin's city centre, NoLita prides itself on being one of the cities most loved nightlife hotspots.

[nolita.ie](http://nolita.ie)

### Pub Meet-Ups

On Friday and Saturday, delegates are encouraged to meet up with each other at different pubs each night and experience Dublin's best pubs. The meet-up takes place following the days program.

#### Friday night – Baggot street

Baggot Street is known for its many pubs, and is home to the "Baggot Street Mile", a pub crawl which consists of having a pint in every pub on both Upper and Lower Baggot Street and some of the adjoining streets, usually at least twelve pubs in number.

*Toners*, 139 Baggot Street Lower

*Doheny & Nesbitt*, 5 Baggot Street Lower

*O'Donoghues Bar*, 15 Merrion Row

#### Saturday night – Dublin historic center

*The Stag's Head*, 1 Dame Ct

*Mulligan and Haines*, 32 Dame Street

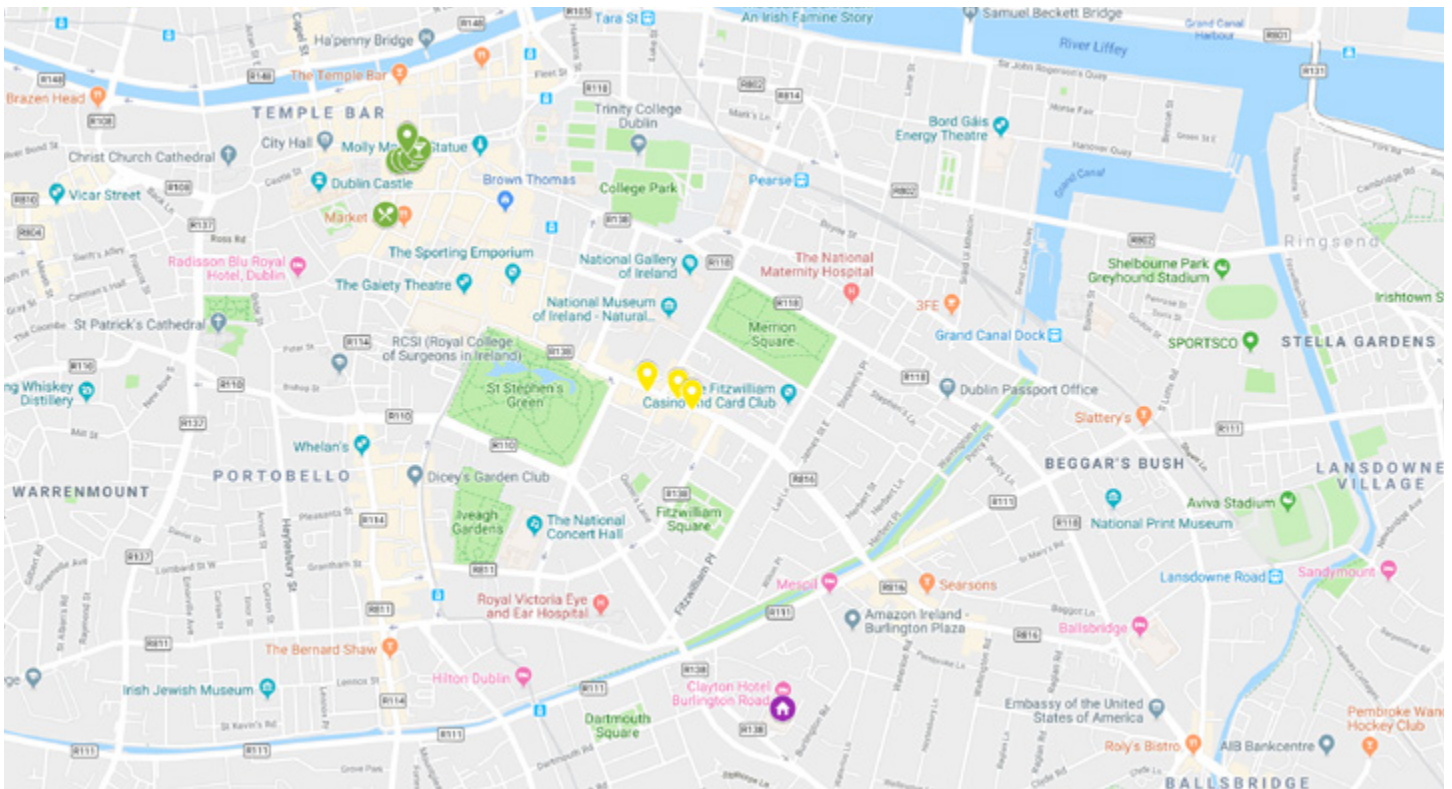
*Haly's Bar*, 28 Dame Street

*The Dame Tavern*, 18 Dame Ct

*J. T. Pim's*, 4 South Great George's Street

## INTERACTIVE MAP

Click the map below to access online google maps with live location markers.





## AWARDS

### 2019 STUDENT TRAVEL AWARDS

The following are the recipients of the 2019 SNE Student Travel Awards. The award is supported by the Society for NeuroEconomics and generous donor foundations.

**Carolina Feher da Silva**, *University of Zurich*

**Anthony Gabay**, *University of Oxford*

**Nir Moneta**, *Max Planck Institute for Human Development*

**Pradyumna Sepulveda**, *University College London*

**Bo Shen**, *New York University*

**Mikhail Spektor**, *University of Freiburg*

**Sai Sun**, *South China Normal University*

**Brian Sweis**, *University of Minnesota*

**Maya Zhe Wang**, *University of Minnesota*

**Wenjia Joyce Zhao**, *University of Pennsylvania*

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# 8<sup>th</sup> Consumer Neuroscience Satellite Symposium

The Michael Smurfit Graduate Business School,  
University College Dublin

Thursday, October 3, 2019, 11:30 – 7:00pm



## SPEAKERS

**Laurette Dube** and **Leslie Fellows**, *McGill University, Canada*

**Alexander Genevsky**, *Rotterdam School of Management, Erasmus University, the Netherlands*

**Dilip Soman**, *Rotman School of Management, University of Toronto, Canada*

## ORGANIZERS

**Laurette Dube**, *Desautels Faculty of Management, McGill University, Canada*

**Aiqing Ling**, *INSEAD & Michael Smurfit Graduate Business School, University College Dublin, Ireland*

**Hilke Plassmann**, *INSEAD, France*

**Julie Schiro**, *the Michael Smurfit Graduate Business School, University College Dublin, Ireland*

**Carolyn Yoon**, *Ross School of Business, University of Michigan, USA*

The purpose of the symposium is to take stock of the current knowledge at the intersection of business school research and neuroscience, provide ideas for future research, and allow interested researchers to meet and discuss research ideas.

## From Brain to Individual to Real-World Outcomes.

The event is sponsored by

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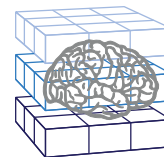
# VANCOUVER

## CANADA

### 18th Annual Meeting October 9–11, 2020

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[www.neuroeconomics.org](http://www.neuroeconomics.org)

## DETAILED PROGRAM

FRIDAY, OCTOBER 4

### 08:30 – 08:45 Welcome and Opening Remarks

Alan Sanfey, SNE President

### 08:45 – 10:20 Session I Valuation and Value System

Chair: Alan Sanfey, Donders Institute

#### 08:45 – 09:05 *The construction of value: How subjective preferences for visual art are computed from elementary stimulus features*

John O'Doherty<sup>1</sup>, Kiyohito Iigaya<sup>1</sup>, Sanghyun Yi<sup>1</sup>, Iman Wahle<sup>1</sup>, Sandy Tanwisuth<sup>1</sup>  
<sup>1</sup>Caltech

#### 09:10 – 09:30 *A dynamic utility maximization model explains rats' willingness to work for water*

Pamela Reinagel<sup>1</sup>  
<sup>1</sup>UCSD

#### 09:35 – 09:55 *Dopamine modulates the richness of the environment in human economic foraging*

Matthew Apps<sup>1</sup>, Campbell Le Heron, Masud Husain<sup>1</sup>  
<sup>1</sup>University of Oxford

#### 10:00 – 10:20 *Forecasting the social media impact of nature imagery with neural data*

Nik Sawe<sup>1</sup>, Tierney Thys<sup>2</sup>, Kelly MacNiven<sup>1</sup>, Brian Knutson<sup>1</sup>  
<sup>1</sup>Stanford University, <sup>2</sup>California Academy of Sciences

### 10:25 – 10:50 Poster Spotlights I

Chair: Uma Karmarkar, University of California, San Diego

#### 10:25 - 10:30 *Decomposing neurocognitive bases of indebtedness in grateful situations: A dual-motivational account*

Xiaoxue Gao<sup>1</sup>, Eshin Jolly<sup>2</sup>, Luke Chang<sup>2</sup>, Xiaolin Zhou<sup>1</sup>  
<sup>1</sup>Peking University, <sup>2</sup>Dartmouth College

#### 10:30 - 10:35 *Delay discounting and anhedonia: A transdiagnostic approach*

Min Su Kang<sup>1</sup>, Daniel Wolf<sup>1</sup>, Rebecca Kazinka<sup>1</sup>, Sangil Lee<sup>1</sup>, Kosha Ruparel<sup>1</sup>, Mark Elliott<sup>1</sup>, Claudia Baldassano<sup>1</sup>, Anna Xu<sup>1</sup>, Matthew Cieslak<sup>1</sup>, Theodore Satterthwaite<sup>1</sup>, Joseph Kable<sup>1</sup>  
<sup>1</sup>University of Pennsylvania

#### 10:35 - 10:40 *Violations of economic rationality in reinforcement learning are driven by a saliency-dependent reward-prediction-error signal in the ventral striatum*

Mikhail Spektor<sup>1</sup>, Sebastian Gluth<sup>2</sup>, Jörg Rieskamp<sup>2</sup>  
<sup>1</sup>University of Freiburg, <sup>2</sup>University of Basel

#### 10:40 - 10:45 *Early childhood trauma negatively affects real-life outcomes via detrimental effects on neurodevelopment: Large-scale evidence from the UK biobank*

Gökhan Aydoğan<sup>1</sup>, Remi Daviet<sup>2</sup>, Richard Karlsson Linnér<sup>3</sup>, Philipp Koellinger<sup>3</sup>, Gideon Nave<sup>2</sup>, Birgit Kleim<sup>1</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zurich, <sup>2</sup>University of Pennsylvania, <sup>3</sup>VU University Amsterdam



**10:45 – 10:50** *Over- and underreaction in detecting regime shifts and the neurocomputational substrates for estimating probability of change*

**Mu-Chen Wang<sup>1</sup>**, George Wu<sup>2</sup>, Shih-Wei Wu<sup>1</sup>  
<sup>1</sup>National Yang-Ming University, <sup>2</sup>University of Chicago

**10:50 – 13:15** **Poster Session I**

Coffee/Tea served  
Please visit our poster presenters.

sponsored by:



**13:15 – 14:15** **Buffet Lunch** (hotel restaurant, main floor)

**The Kavli Foundation  
Social and Decision Science Workshops**

*Chair: Hilke Plassman, INSEAD*

sponsored by:



**14:15 – 15:45** *Pleasure, size, and food marketing*

**Pierre Chandon, Ph.D., INSEAD**

Traditional policy solutions to prevent overeating (warnings, labels, taxes, bans), despite their usefulness, generate strong resistance because they are perceived as restricting business and freedom of choice. The typical industry response, food reformulation, is mistrusted on both hedonic or health grounds and can backfire because of “health halos”. More fundamentally, obesity is largely driven by ever-increasing food portion sizes and yet, our efforts to fight it have focused on trying to influence what people eat instead of how much they eat. I believe that it is time to consider another approach, which I call Epicurean Nudging, focused on fighting overeating by making people happier to spend more for less food, a triple win for public health, business, and eating enjoyment. In this talk, I will focus on two strategies. The first is to reduce portion sizes through smart downsizing. The second approach seeks to increase preferences for smaller portions by making the sensory pleasure of eating central again. I will show how it can be done through sensory imagery training in schools and with more epicurean menu descriptions in restaurants.

**15:45 – 16:05** **Coffee Break**

sponsored by:



**16:05 – 17:35** *Dare to approach: Neural control of approach-avoidance decisions and implications for stress-resilience*

**Karin Roelofs, Ph.D., Donders Institute and Behavioural Science Institute, Radboud University**

Decision-making under acutely threatening situations depends largely on the capacity to override automatic defensive responses such as freezing reactions or fight-or-flight tendencies. Distinct parts of the frontal cortex are implicated in regulating these defensive reactions. I will first present a number of experimental paradigms by which we assessed neural control over these defensive reactions in humans, in which we combined decision tasks with neural and autonomic measures. The first series of studies indicates that down-regulation of amygdala activity by the anterior prefrontal cortex (aPFC) is involved when people need to override their automatic social approach-avoidance action tendencies. The second series of studies investigates the role of freezing in fight-or-flight decisions under acute threat, detailing the role of freezing and associated amygdala-midbrain (periaqueductal gray) connections in fight-withhold decisions, and the role of amygdala-perigenual anterior cingulate cortex (pgACC) connections in the shift from freezing to action. Next, I will move on to explore whether

alterations in these defensive stress-reactions can predict resilience versus vulnerability to real-life stressors. I will present evidence from prospective longitudinal studies showing that freezing and the neural control over automatic defensive responses are predictive for long-term resilience in a developmental and a high-risk (police) sample, respectively. Together, these series of studies indicate that distinct neural circuits are implicated in controlling defensive action decisions, and that the ability to flexibly shift between different defensive response modes is essential for adequate threat coping. It is this ability that may fail in stress-related disorders such as anxiety disorders.

## The Kavli Foundation Neuroscience Workshops

Chair: **Kenway Louie**, *New York University*

sponsored by:



**14:15 – 15:45**     *Uncertainty reduction and valence: Two dimensions of belief-based utility*

**Jacqueline Gottlieb**, Ph.D., *Columbia University Medical Center*

Although economics has long acknowledged the importance of uncertainty for economic decisions, the idea that informational constraints arise in the mind of the decision maker, rather solely in market mechanisms, has only recently begun to be appreciated. Converging evidence shows that people have preferences for what types of information to attend to with important consequences for cognition and economic behavior. I will describe evidence from my work in humans and non-human primates that the utility of information is defined along two dimensions – the reduction in uncertainty that a signal is expected to bring and the valence – desirable or undesirable content – that is expected to be conveyed by the information. I will speak about new empirical approaches for studying these dimensions and our evolving understanding of their neural mechanisms.

**15:45 – 16:05**     **Coffee Break**

**16:05 – 17:35**     *Prefrontal circuits for decision making*

**Laurence Hunt**, Ph.D., *Oxford Centre for Human Brain Activity*

Naturalistic decision-making typically involves sequential deployment of attention to choice alternatives to gather information before a decision is made. Attention filters how information enters decision circuits, implying attentional control may shape how decision computations unfold. I will discuss results from a study examining neuronal activity from three subregions of prefrontal cortex (PFC) as monkeys performed an attention-guided decision-making task. From the first saccade to decision-relevant information, a triple dissociation of decision- and attention-related computations emerged in parallel across PFC subregions. During subsequent saccades, orbitofrontal cortex activity reflected value comparison between currently and previously attended information. By contrast, anterior cingulate cortex carried several signals reflecting belief updating in light of newly attended information, integration of evidence to a decision bound, and an emerging plan for what action to choose. Our findings show how anatomically dissociable PFC representations evolve during attention-guided information search, supporting computations critical for value-guided choice.

**17:35 – 19:00**     **Networking Cocktail Reception**

Conference  
Floor

Join us for appetizers, drinks and networking opportunities

sponsored by:

**Caltech** T&C Chen Center for Social  
and Decision Neuroscience



**University of  
Zurich** <sup>UZH</sup>

## SATURDAY, OCTOBER 5

### 08:45 – 10:20 Session II Learning

Chair: Lesley Fellows, McGill University

#### 08:45 – 09:05 *Planning activities in monkey OFC-RSC circuit in a 3D virtual reality foraging task*

Maya Zhe Wang<sup>1</sup>, Benjamin Hayden<sup>1</sup>  
<sup>1</sup>University of Minnesota

#### 09:10 – 09:30 *Model-free or muddled models in the two-stage task?*

Carolina Feher da Silva<sup>1</sup>, Gaia Lombardi<sup>1</sup>, Micah Edelson<sup>1</sup>, Todd Hare<sup>1</sup>  
<sup>1</sup>University of Zurich

#### 09:35 – 09:55 *Neurocomputational mechanisms of learning on social networks*

Yaomin Jiang<sup>1</sup>, Qingtian Mi<sup>1</sup>, Lusha Zhu<sup>1</sup>  
<sup>1</sup>Peking University

#### 10:00 – 10:20 *Plasticity of human strategic sophistication*

Sibilla Di Guida<sup>1</sup>, Luca Polonio<sup>2</sup>, Davide Marchiori<sup>1</sup>  
<sup>1</sup>University of Southern Denmark, <sup>2</sup>University of Minnesota

### 10:25 – 10:50 Poster Spotlights II

Chair: Catherine Hartley, New York University

#### 10:25 – 10:30 *Testosterone administration increases social discounting in healthy males*

Yin Wu<sup>1</sup>  
<sup>1</sup>Shenzhen University

#### 10:30 – 10:35 *Individual differences in dopamine predict self-control of everyday desires*

Jaime Castrellon<sup>1</sup>, David Zald<sup>2</sup>, Gregory Samanez-Larkin<sup>1</sup>  
<sup>1</sup>Duke University, <sup>2</sup>Vanderbilt University

#### 10:35 – 10:40 *The bounded rationality of probability distortion*

Laurence Maloney<sup>1</sup>, Hang Zhang<sup>2</sup>  
<sup>1</sup>New York University, <sup>2</sup>Peking University

#### 10:40 – 10:45 *Agreement with the group majority vote prevents consideration of past outcomes*

Marwa El Zein<sup>1</sup>, Bahador Bahrami<sup>1</sup>  
<sup>1</sup>University College London

#### 10:45 – 10:50 *The construction and deconstruction of suboptimal preferences through reinforcement learning*

Sophie Bavard<sup>1</sup>, Aldo Rustichini<sup>2</sup>, Stefano Palminteri<sup>1</sup>  
<sup>1</sup>INSERM, <sup>2</sup>University of Minnesota

### 10:50 – 13:15 Poster Session II

Coffee/Tea served

Please visit our poster presenters.

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### 13:15 – 14:15 Buffet Lunch (hotel restaurant, main floor)

## 14:15 – 15:25 **Session III Social Reward and Social Preferences**

Chair: **Cendri Hutcherson**, *University of Toronto*

### 14:15 – 14:35 *Neurocomputational mechanisms at play when weighing concerns for extrinsic rewards, moral values and social image*

**Jean-Claude Dreher**<sup>1</sup>, Chen Qu<sup>2</sup>, Elise Metereau<sup>1</sup>, Luigi Butera<sup>3</sup>, Marie-Claire Villeval<sup>1</sup>, Ignacio Obeso<sup>1</sup>, I Moisa<sup>4</sup>, Christian Ruff<sup>4</sup>

<sup>1</sup>CNRS, <sup>2</sup>South China Normal University, <sup>3</sup>Copenhagen Business School, <sup>4</sup>University of Zurich

### 14:40 – 15:00 *Size matters: Social preferences are reflected in the cortical thickness of the temporoparietal junction*

**Andrea Fariña**<sup>1</sup>, Michael Giffin<sup>1</sup>, Jörg Gross<sup>1</sup>, Carsten De Dreu<sup>1</sup>

<sup>1</sup>Leiden University

### 15:05 – 15:25 *Model-free learning is prioritised when avoiding harm to others*

**Patricia Lockwood**<sup>1</sup>, Miriam Klein-Flugge<sup>1</sup>, Ayat Abdurahman<sup>1</sup>, Molly Crockett<sup>2</sup>

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

### 15:30 – 15:50 *MDMA increases cooperation and recruitment of social brain areas when playing trustworthy players in an iterated prisoner's dilemma*

**Anthony Gabay**<sup>1</sup>, Matthew Kempton<sup>2</sup>, James Gilleen<sup>3</sup>, Mitul Mehta<sup>2</sup>

<sup>1</sup>University of Oxford, <sup>2</sup>King's College London, <sup>3</sup>University of Roehampton

## **The Fred Kavli Plenary Lecture**

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### 16:00 – 17:00 *Savouring and its modulation by prediction errors*

**Peter Dayan**, *Max Planck Institute for Biological Cybernetics*

Humans and animals apparently extract intrinsic value from anticipating, or savoring, impending rewards. Further, when these outcomes are uncertain, people typically prefer to know their fate in advance. We link these two phenomena through the suggestion that reward prediction errors occasioned by the revelation can boost the level of savoring. The result is a behavioural anomaly that has consequences for maladaptivity such as gambling. We formalize this proposal, and investigate its neurobiology in humans using fMRI. In a task involving delayed probabilistic rewards, we found that participants had a greater preference for advance information for greater delays and lower probabilities, consistent with the boosting hypothesis. Ventromedial prefrontal cortex (vmPFC) encoded the time-varying anticipatory value signal predicted by the behavioral model. Reward prediction errors, encoded in dopaminergic midbrain, were coupled to vmPFC via hippocampus. We suggest that boosting might be driven by enhanced hippocampus-based imagination of future outcomes.

## 18:30 – 20:00 **All Attendee Dinner Reception**

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## SUNDAY, OCTOBER 6

### 08:30 – 08:45 Announcements

**Alan Sanfey**

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

### 08:45 – 10:20 **Session IV Risk, Effort, and Delay** *Chair: Kerstin Preuschoff, Université de Genève*

#### 08:45 – 09:05 *How executive fatigue arises and affects decision making*

**Antonius Wiehler<sup>1</sup>**, Bastien Blain<sup>2</sup>, Francesca Branzoli<sup>1</sup>, Isaac Adanyeguh<sup>3</sup>, Fanny Mochel<sup>3</sup>, Donata Marra<sup>3</sup>, Mathias Pessiglione<sup>1</sup>

<sup>1</sup>ICM, Hôpital Pitié Salpêtrière, <sup>2</sup>University College London, <sup>3</sup>Hôpital Pitié Salpêtrière

#### 09:10 – 09:30 *The neuroimaging analysis replication and prediction study results: Variability of neuroimaging results across analysis teams and over optimism in prediction markets*

**Tom Schonberg<sup>1</sup>**, Rotem Botvinik-Nezer<sup>1</sup>, Felix Holzmeister<sup>2</sup>, Colin Camerer<sup>3</sup>, Anna Dreber<sup>4</sup>, Jürgen Huber<sup>2</sup>, Magnus Johannesson<sup>5</sup>, Michael Kirchler<sup>2</sup>, Russell Poldrack<sup>6</sup>

<sup>1</sup>Tel Aviv University, <sup>2</sup>University of Innsbruck, <sup>3</sup>California Institute of Technology, <sup>4</sup>Stockholm School of Economics and University of Innsbruck, <sup>5</sup>Stockholm School of Economics, <sup>6</sup>Stanford University

#### 09:35 – 09:55 *Translational neuroeconomics in addiction: Species-specific similarities and differences in dysfunction between wanting vs liking among humans and mice.*

**Brian Sweis<sup>1</sup>**, Jazmin Camchong<sup>1</sup>, Samantha Abram<sup>2</sup>, Sheila Specker<sup>1</sup>, Kelvin Lim<sup>1</sup>, Angus MacDonald<sup>1</sup>, Mark Thomas<sup>1</sup>, David Redish<sup>1</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>San Francisco VA Medical Center

#### 10:00 – 10:20 *Large-scale evidence for neuroanatomical and genetic associations with risky behaviors*

Gökhan Aydogan<sup>1</sup>, Remi Daviet<sup>2</sup>, Richard Karlsson Linnér<sup>3</sup>, Todd Hare<sup>1</sup>, Joe Kable<sup>2</sup>, Henry Kranzler<sup>2</sup>, Reagan Wetherill<sup>2</sup>, Christian Ruff<sup>1</sup>, Philipp Koellinger<sup>3</sup>, **Gideon Nave<sup>2</sup>**

<sup>1</sup>University of Zürich, <sup>2</sup>University of Pennsylvania, <sup>3</sup>VU Amsterdam

### 10:25 – 10:50 **Poster Spotlights III** *Chair: Agnieszka Tymula, The University of Sydney*

#### 10:25 – 10:30 *Increasing honesty with “smart drugs”: The effects of methylphenidate and atomoxetine on cheating behavior*

**Andreas Kappes<sup>1</sup>**, Molly Crockett<sup>2</sup>

<sup>1</sup>City, University of London, <sup>2</sup>Yale University

#### 10:30 – 10:35 *Medial forebrain bundle structure is associated with impulsivity in humans*

**Kelly MacNiven<sup>1</sup>**, Josiah Leong<sup>1</sup>, Brian Knutson<sup>1</sup>

<sup>1</sup>Stanford University

#### 10:35 – 10:40 *Efficient noisy sampling and decision behavior*

**Joseph Heng<sup>1</sup>**, Michael Woodford<sup>2</sup>, Rafael Polania<sup>1</sup>

<sup>1</sup>ETH Zurich, <sup>2</sup>Columbia University

#### 10:40 – 10:45 *Investigation of the role of the ventro-medial prefrontal cortex local morphology in its functional organization*

**Alizee Lopez-Persem<sup>1</sup>**, Lennart Verhagen<sup>1</sup>, Celine Amiez<sup>2</sup>, Michael Petrides<sup>3</sup>, Jerome Sallet<sup>1</sup>

<sup>1</sup>University of Oxford, <sup>2</sup>University of Lyon, <sup>3</sup>McGill University

10:45 – 10:50 *Enhancement of the reward prediction error signal of midbrain dopamine neuron by the cost of obtaining the reward*

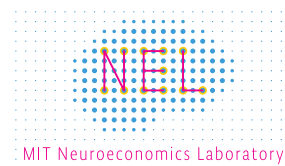
Masamichi Sakagami<sup>1</sup>, John O'Doherty<sup>2</sup>, Shingo Tanaka<sup>3</sup>  
<sup>1</sup>Tamagawa University, <sup>2</sup>Caltech, <sup>3</sup>Niigata University

10:50 – 13:15 **Poster Session III**

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Coffee/Tea served

Please visit our poster presenters.



13:15 – 14:15 **Buffet Lunch** (hotel restaurant, main floor)

14:15 – 15:25 **Session V Choice and Choice Mechanisms**

Chair: David Redish, University of Minnesota

14:15 – 14:35 *Towards a space of behavioral interventions*

Wenjia Joyce Zhao<sup>1</sup>, Aoife Coady<sup>1</sup>, Sudeep Bhatia<sup>1</sup>  
<sup>1</sup>University of Pennsylvania

14:40 – 15:00 *A novel circuit architecture for choice: Local disinhibition generates normalized value coding, persistent activity, and winner-take-all dynamics in value-guided decision making*

Bo Shen<sup>1</sup>, Kenway Louie<sup>1</sup>, Paul Glimcher<sup>1</sup>  
<sup>1</sup>New York University

15:05 – 15:25 *Multiple memory traces of choice and reward in macaque frontal cortex*

Marco Wittmann<sup>1</sup>, Elsa Fouragnan<sup>2</sup>, Davide Folloni<sup>1</sup>, Bolton Chau<sup>3</sup>, Mehdi Khamassi<sup>4</sup>, Matthew Rushworth<sup>1</sup>  
<sup>1</sup>University of Oxford, <sup>2</sup>University of Plymouth, <sup>3</sup>The Hong Kong Polytechnic University, <sup>4</sup>Sorbonne Université

15:30 – 17:05 **Session VI Attention**

Chair: Todd Hare, University of Zurich

15:30 – 15:50 *Visual attention modulates the accumulation of goal-relevant evidence and not value*

Pradyumna Sepulveda<sup>1</sup>, Marius Usher<sup>2</sup>, Ned Davies<sup>1</sup>, Amy Benson<sup>1</sup>, Pietro Ortoleva<sup>3</sup>, Benedetto De Martino<sup>1</sup>  
<sup>1</sup>University College London, <sup>2</sup>Tel-Aviv University, <sup>3</sup>Princeton University

15:55 – 16:15 *The role of attention in opportunity cost neglect*

Stephanie Smith<sup>1</sup>, Stephen Spiller<sup>2</sup>, Ian Krajbich<sup>1</sup>  
<sup>1</sup>The Ohio State University, <sup>2</sup>UCLA

16:20 – 16:40 *Distinct mechanisms underlie mean reward and reward variance in risky decision making: Evidence from behavior, eye-tracking and fMRI*

Sai Sun<sup>1</sup>, Rongjun Yu<sup>2</sup>  
<sup>1</sup>South China Normal University, <sup>2</sup>National Singapore University

16:45 – 17:05 *How contextually irrelevant values influence choice and vmPFC activity in humans*

Nir Moneta<sup>1</sup>, Hauke Heekeren<sup>2</sup>, Nicolas Schuck<sup>1</sup>  
<sup>1</sup>Max Planck Institute for Human Development, <sup>2</sup>Freie Universität Berlin

## 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.

**Session 1:** Friday, October 4, 2019  
10:50 – 13:15

**Session 2:** Saturday, October 5, 2019  
10:50 – 13:15

**Session 3:** Sunday, October 6, 2019  
10:50 – 13:15

The poster board numbers work in the following way:

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

### Poster Themes

- A** Attention
- B** Choice & Choice Mechanisms
- C** Consumer Behavior & Marketing
- D** Emotion & Affect
- E** Game Theory & Strategic Interactions
- F** Individual & Lifespan Differences
- G** Intertemporal Decision
- H** Learning & Memory
- I** Risk & Uncertainty
- J** Social Rewards & Social Preferences
- K** Valuation & Value Systems

## POSTER SESSION 1

FRIDAY OCTOBER 4, 2019

### A – ATTENTION

**1-A-1** *Prolonged attention to probability reduces probability weighting in risky choice*

Michael Grubb<sup>1</sup>, Yutong Li<sup>2</sup>, Ruby Larisch<sup>2</sup>, Ifat Levy<sup>2</sup>  
<sup>1</sup>Trinity College, <sup>2</sup>Yale Medical School

**1-A-2** *Out of sight, out of mind: Visual attention and loss aversion*

Alejandro Hirmas<sup>1</sup>, Jan Engelmann<sup>1</sup>  
<sup>1</sup>Universiteit van Amsterdam

**1-A-3** *Is the decoy effect an attention-driven phenomenon?*

Gaia Lombardi<sup>1</sup>, Todd Hare<sup>1</sup>, Ernst Fehr<sup>1</sup>  
<sup>1</sup>University of Zurich

**1-A-4** *Combining choices and response times in the field: A drift-diffusion model of mobile advertisements*

Ryan Webb<sup>1</sup>, Khai Chiong<sup>2</sup>, Matthew Shum<sup>3</sup>, Richard Chen<sup>4</sup>  
<sup>1</sup>University of Toronto, <sup>2</sup>University of Texas at Dallas, <sup>3</sup>California Institute of Technology, <sup>4</sup>Happy Elements Inc

### B – CHOICE & CHOICE MECHANISMS

**1-B-5** *Choice framing effects arising from non-choice items*

Uma Karmarkar<sup>1</sup>, Ann Carroll<sup>2</sup>  
<sup>1</sup>UCSD, <sup>2</sup>Northwestern University

**1-B-6** *Sources of confidence in value-based choice*

Jeroen Brus<sup>1</sup>, Marcus Grueschow<sup>1</sup>, Rafael Polania<sup>1</sup>  
<sup>1</sup>ETH

**1-B-7** *Classifying individuals into "Info-Types" based on information-seeking motives*

Chris Kelly<sup>1</sup>, Tali Sharot<sup>1</sup>  
<sup>1</sup>University College London

**1-B-8** *Associations of loss aversion with feedback-related negativity during free and restricted choices.*

Katerina Kokmotou<sup>1</sup>, John Tyson-Carr<sup>1</sup>, Hannah Roberts<sup>1</sup>, Adam Byrne<sup>1</sup>, Yuxin Xie<sup>2</sup>, Vicente Soto<sup>1</sup>, Timo Giesbrecht<sup>3</sup>, Athanasios Pantelous<sup>4</sup>, Andrej Stancak<sup>1</sup>  
<sup>1</sup>University of Liverpool, <sup>2</sup>Southwestern University of Finance and Economics, <sup>3</sup>Unilever, <sup>4</sup>Monash University

**1-B-9** *Decomposing preferences with the drift diffusion model*

Nitisha Desai<sup>1</sup>, Ian Krajbich<sup>1</sup>  
<sup>1</sup>The Ohio State University

**1-B-10 Early childhood trauma negatively affects real-life outcomes via detrimental effects on neurodevelopment: Large-scale evidence from the UK biobank**

Gökhan Aydoğan<sup>1</sup>, Remi Daviet<sup>2</sup>, Richard Karlsson Linnér<sup>3</sup>, Philipp Koellinger<sup>3</sup>, Gideon Nave<sup>2</sup>, Birgit Kleim<sup>4</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zürich, <sup>2</sup>University of Pennsylvania, <sup>3</sup>VU Amsterdam, <sup>4</sup>University of Zurich

**1-B-11 Commonalities between the attraction effect and the Gestalt law of proximity**

Liz Izakson<sup>1</sup>, Yoav Zeevi<sup>1</sup>, Dino Levy<sup>1</sup>  
<sup>1</sup>Tel-Aviv University

**1-B-12 Testing the DDM: A behavioral Experiment to measure evidence accumulation during decision making**

Stefan Bucher<sup>1</sup>, Paul Glimcher<sup>1</sup>  
<sup>1</sup>New York University

**1-B-13 Language and recall regions of the brain track evidence of guilt in mock criminal scenarios.**

Jaime Castrellon<sup>1</sup>, J.H. Pate Skene<sup>1</sup>, Lun Yin<sup>1</sup>, Shabnam Hakimi<sup>1</sup>, Jacob Parelman<sup>2</sup>, Jonathan Law<sup>1</sup>, Jesse A.G. Skene<sup>1</sup>, David Ball<sup>3</sup>, Artemis Malekpour<sup>3</sup>, John Pearson<sup>1</sup>, McKell Carter<sup>4</sup>  
<sup>1</sup>Duke University, <sup>2</sup>University of Pennsylvania, <sup>3</sup>Malekpour and Ball Consulting, Jurywatch Inc., <sup>4</sup>University of Colorado Boulder

**1-B-14 Conjoint measurement of quality and quantity of sensory data in evidence-based decision-making**

Hsu Chen Yi<sup>1</sup>, Wu Shih-Wei<sup>1</sup>  
<sup>1</sup>National Yang Ming University

**1-B-15 The neuroeconomics of narratives and asset-price bubbles: Persuasive bubble-driving narratives may favor valuation- over control-network activation**

John Haracz<sup>1</sup>  
<sup>1</sup>Indiana University

**1-B-16 Arousal and neural signals during deliberation to exert physical effort**

Irma Kurniawan<sup>1</sup>, Marcus Grüşchow<sup>1</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zürich

**C – CONSUMER BEHAVIOR & MARKETING**

**1-C-17 The N400 study of price perception**

Aleksei Gorin<sup>1</sup>, Egor Levchenko<sup>1</sup>, Anush Ghambaryan<sup>1</sup>, Andrei Kislov<sup>1</sup>, Anna Shestakova<sup>1</sup>, Vasilij Klucharev<sup>1</sup>  
<sup>1</sup>National Research University Higher School of Economics

**1-C-18 Hierarchical recurrent CNN for decoding valuations from neural activity to predict consumer preferences**

Adam Hakim<sup>1</sup>, Dino Levy<sup>1</sup>  
<sup>1</sup>Tel Aviv University

**1-C-19 Reward type matters for probing behavioral similarity across species: A comparative study on rat and human consumers**

Yue Hu<sup>1</sup>, Tobias Kalenscher<sup>1</sup>  
<sup>1</sup>Heinrich-Heine-Universität Düsseldorf

**1-C-20 Variations of choice behavior and eye fixation according to rating level, category homogeneity, and choice difficulty**

Seungji Lee<sup>1</sup>, Sung-Phil Kim<sup>1</sup>  
<sup>1</sup>Ulsan National Institute of Science and Technology

**1-C-21 How relations between goods affect valuation**

Hui-Kuan Chung<sup>1</sup>, Philippe Tobler<sup>1</sup>  
<sup>1</sup>University of Zurich

**E – GAME THEORY & STRATEGIC INTERACTIONS**

**1-E-22 Acute tryptophan depletion in healthy subjects leads to greater preferences for negative reciprocity.**

Paul Bengart<sup>1</sup>, Theo Gruendler<sup>1</sup>, Bodo Vogt<sup>1</sup>  
<sup>1</sup>Otto-von-Guericke University Magdeburg

**1-E-23 Enhancing cooperation through the selective provision of social information to reinforcement-learning agents**

Krzysztof Bielski<sup>1</sup>, Iwona Szatkowska<sup>1</sup>, Elliot Ludvig<sup>2</sup>  
<sup>1</sup>Nencki Institute of Experimental Biology PAS, <sup>2</sup>University of Warwick

**1-E-24 Your pupils betray you - lie detection through cross-participant pupil synchrony**

Yaoguang Jiang<sup>1</sup>, Kristine Lai<sup>1</sup>, Feng Sheng<sup>1</sup>, Michael Platt<sup>1</sup>  
<sup>1</sup>University of Pennsylvania

**1-E-25 Capturing choice processes during strategic interactions with the drift-diffusion model**

Arkady Konovalov<sup>1</sup>, Jie Hu<sup>1</sup>, Christian Ruff<sup>1</sup>  
<sup>1</sup>University of Zürich

**1-E-26 Robust prediction of individual differences in trust propensity from intrinsic brain morphology and functional connectivity**

Chunliang Feng<sup>1</sup>, Zhiyuan Zhu<sup>2</sup>, Zaixu Cui<sup>3</sup>, Haiyang Geng<sup>3</sup>, Jean-Claude Dreher<sup>4</sup>, Xia Wu<sup>5</sup>, Yue-Jia Luo<sup>2</sup>, Frank Krueger<sup>2</sup>  
<sup>1</sup>X, <sup>2</sup>George Mason University, <sup>3</sup>China, <sup>4</sup>CNRS, <sup>5</sup>Shenzhen University

**G - INTERTEMPORAL DECISION**

**1-G-27 Delay discounting and anhedonia: a transdiagnostic approach**

Min Su Kang<sup>1</sup>, Daniel Wolf<sup>1</sup>, Rebecca Kazinka<sup>2</sup>, Sangil Lee<sup>1</sup>, Kosha Ruparel<sup>1</sup>, Mark Elliott<sup>1</sup>, Claudia Baldassano<sup>1</sup>, Anna Xu<sup>1</sup>, Matthew Cieslak<sup>1</sup>, Theodore Satterthwaite<sup>1</sup>, Joseph Kable<sup>1</sup>  
<sup>1</sup>University of Pennsylvania, <sup>2</sup>University of Minnesota



**1-G-28** *The cortical oscillatory patterns during varying levels of cognitive effort: Effects of reward and value of effort*

Adam Byrne<sup>1</sup>

<sup>1</sup>University of Liverpool

**1-G-29** *Across space, time, and country lines: A cross-cultural examination of time perception and its influence on economic decision-making.*

Denise Croote<sup>1</sup>, Alison Montagnin<sup>2</sup>, Baojun Lai<sup>3</sup>, Jingchu Hu<sup>3</sup>, Daniela Schiller<sup>1</sup>

<sup>1</sup>Icahn School of Medicine at Mount Sinai, <sup>2</sup>University of Geneva, <sup>3</sup>South China Normal University

**1-G-30** *Role of locus coeruleus noradrenergic arousal in choice conflict adjustments*

Marcus Grueschow<sup>1</sup>, Birgit Kleim<sup>1</sup>, Christian Ruff<sup>1</sup>

<sup>1</sup>University of Zürich

**1-G-31** *Task-switching in social contexts*

Melissa Jhurry<sup>1</sup>, Lasana Harris<sup>1</sup>

<sup>1</sup>University College London

**1-G-32** *Preferences and temporal patterns of intertemporal decision making in marijuana users versus never and former users*

Suzanne Mitchell<sup>1</sup>, Yoonseo Song<sup>2</sup>

<sup>1</sup>Oregon Health & Science University, <sup>2</sup>University of Washington

## I – RISK & UNCERTAINTY

**1-I-34** *Risk aversion: Attention, arousal and incentive effects*

Abdelaziz Alsharawy<sup>1</sup>, Sheryl Ball<sup>1</sup>, Xiaomeng Zhang<sup>1</sup>, Alec Smith<sup>1</sup>

<sup>1</sup>Virginia Tech

**1-I-35** *Disruption of frontal activity asymmetry using tACS to modulate risk-taking behavior*

Aline Dantas<sup>1</sup>, Alexander Sack<sup>1</sup>, Teresa Schuhmann<sup>1</sup>, Elisabeth Brugger<sup>1</sup>, Peiran Jiao<sup>1</sup>

<sup>1</sup>Maastricht University

**1-I-36** *Measuring ambiguity attitude efficiently*

Geraldine Gvozdanovic<sup>1</sup>, Robert Schreiber<sup>1</sup>, Ana Cubillo<sup>1</sup>, Lydia Hellrung<sup>1</sup>, Boris Quednow<sup>1</sup>, Philippe Tobler<sup>1</sup>

<sup>1</sup>University of Zürich

**1-I-37** *Associations between white matter connectivity and individual differences in risky and social choices*

William Hampton<sup>1</sup>, Bernd Weber<sup>2</sup>, Eric Johnson<sup>3</sup>

<sup>1</sup>Temple University, <sup>2</sup>Universität Bonn, <sup>3</sup>Columbia University

**1-I-38** *Excitotoxic lesions of the lateral orbitofrontal cortex, but not medial prefrontal cortex, altered risk-dependent choice in the rat*

Yi-Hua Yang<sup>1</sup>, Shuo-Fu Chen<sup>1</sup>, Chuen-Yu Chuang<sup>1</sup>, Ruey-Ming Liao<sup>1</sup>

<sup>1</sup>National Cheng-Chi University

**1-I-39** *Influence of volatility on matching behavior in mice*

Mehran Spitmaan<sup>1</sup>, Bilal Bari<sup>2</sup>, Jeremiah Cohen<sup>2</sup>, Alireza Soltani<sup>1</sup>

<sup>1</sup>Dartmouth College, <sup>2</sup>Johns Hopkins University School of Medicine

**1-I-40** *High gamma activity in the human prefrontal and insular cortices represent monetary gains and losses during decision making*

Siao-Jhen Wu<sup>1</sup>, Shih-Wei Wu<sup>1</sup>

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

## J – SOCIAL REWARDS & SOCIAL PREFERENCES

**1-J-41** *Exploration of uncertainty with trust decisions in social networks*

Rei Akaishi<sup>1</sup>, Haruno Masahiko<sup>2</sup>

<sup>1</sup>Riken CBS, <sup>2</sup>CiNet

**1-J-42** *Behavioral and neural predictors of the effectiveness of mobile digital health message framing*

Christian Benitez<sup>1</sup>, Jaime Castrellon<sup>1</sup>, Micaela Brewington<sup>1</sup>, Melanie Camejo Coffigny<sup>1</sup>, Eliana Armora<sup>2</sup>, Alexander Bendeck<sup>1</sup>, Uma Rao<sup>1</sup>, Sade Abiodun<sup>1</sup>, Mikella Green<sup>1</sup>, Eric Juarez<sup>1</sup>, Candace Brown<sup>3</sup>, Kendra Seaman<sup>4</sup>, Emily Falk<sup>5</sup>, Gregory Samanez-Larkin<sup>1</sup>

<sup>1</sup>Duke University, <sup>2</sup>University of North Carolina Chapel Hill,

<sup>3</sup>University of North Carolina Charlotte, <sup>4</sup>University of Texas at Dallas, <sup>5</sup>University of Pennsylvania

**1-J-43** *A neurocomputational account of moral hypocrisy*

Molly Crockett<sup>1</sup>, Hongbo Yu<sup>1</sup>

<sup>1</sup>Yale University

**1-J-44** *Decomposing neurocognitive bases of indebtedness in grateful situations: A dual-motivational account*

Xiaoxue Gao<sup>1</sup>, Eshin Jolly<sup>2</sup>, Luke Chang<sup>2</sup>, Xiaolin Zhou<sup>1</sup>

<sup>1</sup>Peking University, <sup>2</sup>Dartmouth College

**1-J-45** *Neural correlates of expected wealth, competitive success, and risk in economic contests*

Michael Giffin<sup>1</sup>, Steven Scholte<sup>2</sup>, Frans van Winden<sup>2</sup>, Richard Ridderinkhof<sup>2</sup>, Carsten De Dreu<sup>1</sup>

<sup>1</sup>Leiden University, <sup>2</sup>University of Amsterdam

**1-J-46** *Differential roles of MPFC subregions in self-serving prosocial dishonesty*

Juyoung Kim<sup>1</sup>, Hackjin Kim<sup>1</sup>

<sup>1</sup>Korea University

**1-J-47** *Mentalising with the future? Electrical stimulation of the right TPJ increases sustainable decision-making*

Benedikt Langenbach<sup>1</sup>, Branislav Savic<sup>1</sup>, Thomas Baumgartner<sup>1</sup>, Daria Knoch<sup>1</sup>

<sup>1</sup>University of Bern

**1-J-48 A new behavior change model compatible with expected utility theory**

Kaosu Matsumori<sup>1</sup>, Kazuki Iijima<sup>1</sup>, Yasuharu Koike<sup>2</sup>, Kenji Matsumoto<sup>1</sup>

<sup>1</sup>Tamagawa University Brain Science Institute, <sup>2</sup>Tokyo Institute of Technology

**1-J-49 Reciprocal fairness and human justice. A brain stimulation study**

Marcello Negrini<sup>1</sup>, Leticia Rettore Micheli<sup>1</sup>, Teresa Schuhmann<sup>1</sup>, Arno Riedl<sup>1</sup>

<sup>1</sup>Maastricht University

**1-J-50 Mood dynamics during altruistic decision making**

Yuki Shimura<sup>1</sup>, Bastien Blain<sup>1</sup>, Matilde Vaghi<sup>1</sup>, Liyuan Xu<sup>1</sup>, Robb Rutledge<sup>1</sup>

<sup>1</sup>University College London

**1-J-51 Spreading news: The multimodal factors of information sharing behaviors**

Gabriele Bellucci<sup>1</sup>, Anne-Katrin Muth<sup>1</sup>, Alexander Lux<sup>2</sup>, Olaf Uhl<sup>3</sup>, Berthold Koletzko<sup>3</sup>, Sebastian Schmid<sup>2</sup>, Soyoung Park<sup>1</sup>

<sup>1</sup>German Institute of Human Nutrition, <sup>2</sup>University of Lübeck, <sup>3</sup>Ludwig-Maximilians-Universität Munich,

**1-J-52 When the grass is greener on the other side of the border: How the wealth of foreign countries affects our own life-satisfaction.**

Filip Gesiarz<sup>1</sup>, Jan De Neve<sup>1</sup>, Tali Sharot<sup>1</sup>

<sup>1</sup>University College London

**1-K-57 Examining valuation decisions during product purchases: a combined mobile EEG and eye tracking investigation**

Hannah Roberts<sup>1</sup>, John Tyson-Carr<sup>1</sup>, Vicente Soto<sup>1</sup>, Katerina Kokmotou<sup>1</sup>, Adam Byrne<sup>1</sup>, Nicholas Fallon<sup>1</sup>, Timo Giesbrecht<sup>2</sup>, Andrej Stancak<sup>1</sup>

<sup>1</sup>University of Liverpool, <sup>2</sup>Unilever

**1-K-58 Violations of economic rationality in reinforcement learning are driven by a saliency-dependent reward-prediction-error signal in the ventral striatum**

Mikhail Spektor<sup>1</sup>, Sebastian Gluth<sup>2</sup>, Jörg Rieskamp<sup>2</sup>

<sup>1</sup>University of Freiburg, <sup>2</sup>University of Basel

**1-K-59 Over- and underreaction in detecting regime shifts and the neurocomputational substrates for estimating probability of change**

Mu-Chen Wang<sup>1</sup>, George Wu<sup>2</sup>, Shih-Wei Wu<sup>1</sup>

<sup>1</sup>National Yang-Ming University, <sup>2</sup>University of Chicago

## K – VALUATION & VALUE SYSTEMS

**1-K-53 Resting-state connectivity correlates of gain and loss valuation in a mixed-gambles task**

Nadav Aridan<sup>1</sup>, Ido Tavor<sup>1</sup>, Roni Iwanir<sup>1</sup>, Rotem Botvinik-Nezer<sup>1</sup>, Tom Schonberg<sup>1</sup>

<sup>1</sup>Tel aviv university

**1-K-54 The geometry of flexible goal-dependent representations for value-based choice**

Giuseppe Castegnetti<sup>1</sup>, Mariana Zurita<sup>1</sup>, Benedetto De Martino<sup>1</sup>

<sup>1</sup>University College London

**1-K-55 Stable value-based choices relate to structural connectivity between hippocampus and parietal cortex**

Marius Moisa<sup>1</sup>, Rafael Polania<sup>2</sup>, Marcus Grueschow<sup>1</sup>, Yoo Jin Lee<sup>1</sup>, Zoltan Nagy<sup>1</sup>, Christian Ruff<sup>1</sup>

<sup>1</sup>University of Zurich, <sup>2</sup>ETH Zurich

**1-K-56 Normalized value coding adapts choice performance to prevalent rewards**

Patrick O'Neill<sup>1</sup>, Kenway Louie<sup>1</sup>

<sup>1</sup>New York University

## POSTER SESSION 2

SATURDAY OCTOBER 5, 2019

### B – CHOICE & CHOICE MECHANISMS

**2-B-1** *Exploring value-computation elements and motor-execution elements as sources of choice inconsistency*

Vered Kurtz-David<sup>1</sup>, Adam Hakim<sup>1</sup>, Dino Levy<sup>1</sup>

<sup>1</sup>Tel Aviv University

**2-B-2** *Dorsolateral prefrontal cortex plays dual role for mental effort*

Alexander Soutschek<sup>1</sup>, Philippe Tobler<sup>1</sup>

<sup>1</sup>University of Zurich

**2-B-3** *Forecasting the US primary elections from convenience samples using behavioural science tools*

Joseph Marks<sup>1</sup>, Tali Sharot<sup>1</sup>

<sup>1</sup>University College London

**2-B-4** *Predicting decision regret in vaccination: Does the decision matter?*

Eugene Tay<sup>1</sup>, Francesco Angileri<sup>2</sup>, Sebastiano Massaro<sup>3</sup>

<sup>1</sup>Warwick University, <sup>2</sup>The University of Western Australia,

<sup>3</sup>Surrey Business School

**2-B-5** *Avoidance of delayed mental effort cost without awareness*

Asako Nagase<sup>1</sup>, Shuhei Yamaguchi<sup>2</sup>, Ritsuko Hanajima<sup>1</sup>, Kenji Morita<sup>3</sup>

<sup>1</sup>Tottori University, <sup>2</sup>Shimane university, <sup>3</sup>The University of Tokyo

**2-B-6** *A common neurocomputational mechanism for visual perception and risky choice*

Vivek Nandur<sup>1</sup>, Tal Sela<sup>2</sup>, Ryan Webb<sup>1</sup>, Dino Levy<sup>2</sup>

<sup>1</sup>University of Toronto, <sup>2</sup>Tel Aviv University

**2-B-7** *Use of decision heuristics in face of complex decision environments: An eye-tracking study*

Ramiro Eduardo Rea Reyes<sup>1</sup>, Youngbin Kwak<sup>1</sup>

<sup>1</sup>University of Massachusetts, Amherst

**2-B-8** *The websurf task in an Amazon mechanical Turk sample*

Rebecca Kazinka<sup>1</sup>, Angus MacDonald<sup>1</sup>, A. David Redish<sup>1</sup>

<sup>1</sup>University of Minnesota

**2-B-9** *Integration of reward and representational information during categorical decision making in the angular gyrus and ventromedial prefrontal cortex*

Carol Seger<sup>1</sup>, Kurt Braunlich<sup>2</sup>, Zhiya Liu<sup>1</sup>

<sup>1</sup>South China Normal University, <sup>2</sup>National Institutes of Health

### C - CONSUMER BEHAVIOR & MARKETING

**2-C-10** *Double decoys and a possible parameterization: Empirical analyses of pairwise normalization*

Ryan Webb<sup>1</sup>, Remi Daviet<sup>2</sup>

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

**2-C-11** *Marketing placebo effects on taste perception are not related to the level of trust in marketers and not affected by oxytocin*

Daniela Schelski<sup>1</sup>, Dirk Scheele<sup>1</sup>, Liane Schmidt<sup>2</sup>, René Hurlemann<sup>3</sup>, Bernd Weber<sup>1</sup>, Hilke Plassmann<sup>4</sup>

<sup>1</sup>University of Bonn, <sup>2</sup>INSERM, <sup>3</sup>University of Oldenburg Medical Campus, <sup>4</sup>INSEAD

**2-C-12** *Understanding of how consumers evaluate brand extension: An fMRI study*

Taeyang Yang<sup>1</sup>, Ji-Hyun Kim<sup>1</sup>, Sung-Phil Kim<sup>1</sup>

<sup>1</sup>Ulsan National Institute of Science and Technology

**2-C-13** *The underlying neural mechanism of inaction inertia in consumption*

Honghong Tang<sup>1</sup>, Song Su<sup>1</sup>, Chao Liu<sup>1</sup>

<sup>1</sup>Beijing Normal University

### D – EMOTION & AFFECT

**2-D-14** *Can we change beliefs? Evidence for effects of ketamine on belief-updating in resistant major depressive disorder*

Hugo Bottemanne<sup>1</sup>, Victor Pitron<sup>1</sup>, Jean-Yves Rotgé<sup>1</sup>, Tali Sharot<sup>2</sup>, Philippe Fossati<sup>1</sup>, Liane Schmidt<sup>1</sup>

<sup>1</sup>Sorbonne University, <sup>2</sup>University College London

**2-D-15** *Emotion dynamics across adulthood in everyday life: Older adults are better at regulating desires and more stable in their affective experiences*

Daisy Burr<sup>1</sup>, Jaime Castrellon<sup>1</sup>, David Zald<sup>2</sup>, Gregory Samanez-Larkin<sup>1</sup>

<sup>1</sup>Duke University, <sup>2</sup>Vanderbilt University

**2-D-16** *Interaction between mood and adaptive learning*

Bastien Blain<sup>1</sup>, Robb Rutledge<sup>1</sup>

<sup>1</sup>Max Planck UCL Centre for Computational Psychiatry and Ageing Research

**2-D-17** *Agreement with the group majority vote prevents consideration of past outcomes*

Marwa El Zein<sup>1</sup>, Bahador Bahrami<sup>1</sup>

<sup>1</sup>University College London

**2-D-18** *The role of mood in cognitive control*

Matilde Vaghi<sup>1</sup>, Bastien Blain<sup>1</sup>, Ray Dolan<sup>1</sup>, Robb Rutledge<sup>1</sup>

<sup>1</sup>University College London

**2-D-19** *The construction and deconstruction of suboptimal preferences through reinforcement learning*

Sophie Bavard<sup>1</sup>, Aldo Rustichini<sup>2</sup>, Stefano Palminteri<sup>1</sup>  
<sup>1</sup>INSERN, <sup>2</sup>University of Minnesota

**E – GAME THEORY & STRATEGIC INTERACTIONS**

**2-E-20** *Cross-brain neural signatures of strategic competition in humans and monkeys*

Yaoguang Jiang<sup>1</sup>, Kristine Lai<sup>1</sup>, Michael Platt<sup>1</sup>  
<sup>1</sup>University of Pennsylvania

**2-E-21** *An interaction between social affective biases and monetary offer amounts in human interpersonal negotiations*

Erdem Pulcu<sup>1</sup>, Catherine Harmer<sup>1</sup>, Michael Browning<sup>1</sup>, Daniel Murphy<sup>1</sup>  
<sup>1</sup>University of Oxford

**2-E-22** *Learning what makes a good offer: A neuro-computational account*

Michael Giffin<sup>1</sup>, Maël Lebreton<sup>2</sup>, Andrea Farina<sup>1</sup>, Jörg Gross<sup>1</sup>, Carsten De Dreu<sup>1</sup>  
<sup>1</sup>Leiden University, <sup>2</sup>Université de Geneve

**2-E-23** *Emotions in strategic interaction: The case of anger and guilt*

Arno Riedl<sup>1</sup>, Evi Nalmpanti<sup>1</sup>, Sasha Vostroknutov<sup>1</sup>, Vincent van de Ven<sup>1</sup>  
<sup>1</sup>Maastricht University

**2-E-24** *The neural trade-off between social cooperation and competition in the Space Dilemma.*

M. Andrea Pisauro<sup>1</sup>, Elsa Fouragnan<sup>2</sup>, Matthew Apps<sup>1</sup>, Marios Philiastides<sup>3</sup>  
<sup>1</sup>University of Oxford, <sup>2</sup>University of Plymouth, <sup>3</sup>University of Glasgow

**F – INDIVIDUAL & LIFESPAN DIFFERENCES**

**2-F-25** *Differential regional decline in striatal and medial temporal dopamine receptor availability across adulthood*

Eric Juarez<sup>1</sup>, Kendra Seaman<sup>2</sup>, Christian Benitez<sup>1</sup>, Roberto Cabeza<sup>1</sup>, David Zald<sup>3</sup>, Gregory Samanez-Larkin<sup>1</sup>  
<sup>1</sup>Duke University, <sup>2</sup>University of Texas at Dallas, <sup>3</sup>Vanderbilt University

**2-F-26** *Using twitter to detect depression and predict onset of depressive episodes*

Sean Kelley<sup>1</sup>, Claire Gillan<sup>1</sup>  
<sup>1</sup>Trinity College Dublin

**2-F-27** *Self-efficacy, depressive symptoms, and the pursuit of physical health rewards*

Melanie Camejo Coffigny<sup>1</sup>, Jaime Castrellon<sup>1</sup>, Christian Benitez<sup>1</sup>, Eliana Armora Langoni<sup>1</sup>, Gregory Samanez-Larkin<sup>1</sup>  
<sup>1</sup>Duke University

**2-F-28** *Positive illusion is associated with a high responsiveness to reward: evidences from functional magnetic resonance imaging and psychiatry sample*

Qian Cui<sup>1</sup>, Yuyan Chen<sup>1</sup>, Wei Sheng<sup>1</sup>, Qin Tang<sup>1</sup>, Ailing Xie<sup>1</sup>, Jing Huang<sup>1</sup>, HuaFu Chen<sup>1</sup>  
<sup>1</sup>University of Electronic Science and Technology of China

**G – INTERTEMPORAL DECISION**

**2-G-29** *Risk and ambiguity aversion in the domain of self-control*

Candace Raio<sup>1</sup>, Lewis Leone<sup>2</sup>, Paul Glimcher<sup>1</sup>  
<sup>1</sup>New York University, <sup>2</sup>Fordham University

**2-G-30** *Within-individual changes in temporal discounting induced by shifts in the processing times of immediate and delayed rewards*

Nicolette Sullivan<sup>1</sup>, Scott Huettel<sup>2</sup>, Antonio Rangel<sup>3</sup>  
<sup>1</sup>The London School of Economics, <sup>2</sup>Duke University, <sup>3</sup>Caltech

**2-G-31** *The effect of bariatric surgery on delay discounting for food and money: A longitudinal study*

Ratnalekha Viswanadham<sup>1</sup>, Yann Cornil<sup>2</sup>, Pierre Chandon<sup>1</sup>, Liane Schmidt<sup>3</sup>, Christine Poitou<sup>4</sup>, Michele Chabert<sup>4</sup>, Judith Aron-Wisnewsky<sup>4</sup>, Karine Clément<sup>4</sup>, Hilke Plassmann<sup>1</sup>  
<sup>1</sup>INSEAD, <sup>2</sup>University of British Columbia, <sup>3</sup>Institut du Cerveau et de la Moelle Épineière, <sup>4</sup>Université Pierre et Marie Curie Paris VI

**2-G-32** *The impact of future perspective on delay discounting: Contribution of socioeconomic status and sociopolitical event*

Francesca Walsh<sup>1</sup>, Youngbin Kwak<sup>1</sup>  
<sup>1</sup>University of Massachusetts Amherst

**2-G-33** *Present bias for monetary and dietary rewards: Evidence from Chinese teenagers*

Xueting Wang<sup>1</sup>, Agnieszka Tymula<sup>1</sup>, Stephen Chung<sup>1</sup>  
<sup>1</sup>The University of Sydney

**2-G-34** *Individual differences in dopamine predict self-control of everyday desires*

Jaime Castrellon<sup>1</sup>, David Zald<sup>2</sup>, Gregory Samanez-Larkin<sup>1</sup>  
<sup>1</sup>Duke University, <sup>2</sup>Vanderbilt University

**H – LEARNING & MEMORY**

**2-H-35** *Dorsomedial prefrontal cortex plays a causal role for imitation learning*

Pyeongwon Kang<sup>1</sup>, Marius Moisa<sup>1</sup>, Alexander Soutschek<sup>2</sup>, Björn Lindström<sup>3</sup>, Christian Ruff<sup>1</sup>, Philippe Tobler<sup>1</sup>  
<sup>1</sup>University of Zurich, <sup>2</sup>Ludwig Maximilian University of Munich, <sup>3</sup>University of Amsterdam

**2-H-36** *Learning and individual differences in adaptive persistence*

Yixin Chen<sup>1</sup>, Tiantian Li<sup>1</sup>, James Lynch<sup>1</sup>, Joe McGuire<sup>1</sup>  
<sup>1</sup>Boston University



**2-H-37 Differences in reinforcement learning dynamics predict major depressive disorder**

Dahlia Mukherjee<sup>1</sup>, Alexandre Filipowicz<sup>2</sup>, Khoi Vo<sup>3</sup>, Theodore Satterthwaite<sup>2</sup>, Joseph Kable<sup>2</sup>

<sup>1</sup>Penn State, <sup>2</sup>University of Pennsylvania, <sup>3</sup>Duke University

**2-H-38 Individual differences in the mechanistic control of the dopaminergic midbrain**

Lydia Hellrung<sup>1</sup>, Matthias Kirschner<sup>2</sup>, James Sulzer<sup>3</sup>, Ronald Sladky<sup>1</sup>, Frank Scharnowski<sup>1</sup>, Marcus Herdener<sup>1</sup>, Philippe Tobler<sup>1</sup>

<sup>1</sup>University of Zurich, <sup>2</sup>McGill University, <sup>3</sup>University of Texas at Austin

**2-H-39 Physiological markers predict the adjustment of learning rates in dynamic environments**

Chang-Hao Kao<sup>1</sup>, Yixin Chen<sup>2</sup>, Frewine Ogbaselase<sup>1</sup>, Joshua Gold<sup>1</sup>, Joseph Kable<sup>1</sup>

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

**2-H-40 Effects of schemas and risk on learning and decision making in ecological settings**

Gediminas Luksys<sup>1</sup>, Anna Padanyi<sup>1</sup>, Leanne Hamersztein<sup>1</sup>, Shihui Liang<sup>1</sup>, Ziyuan Han<sup>1</sup>, Robin Hill<sup>1</sup>

<sup>1</sup>University of Edinburgh

**I - RISK & UNCERTAINTY**

**2-I-41 Implicit meta-learning of noise and volatility**

Leah Bakst<sup>1</sup>, Joseph McGuire<sup>1</sup>

<sup>1</sup>Boston University

**2-I-42 The bounded rationality of probability distortion**

Laurence Maloney<sup>1</sup>, Hang Zhang<sup>2</sup>

<sup>1</sup>New York University, <sup>2</sup>Peking University

**2-I-43 Range sensitivity in decisions under uncertainty**

Miguel Antonio Garcia<sup>1</sup>, Sebastian Weissengruber<sup>1</sup>, Christian Ruff<sup>1</sup>

<sup>1</sup>University of Zurich

**2-I-44 The neural correlates of prudent behavior**

Adam Hakim<sup>1</sup>, Vered Kurtz<sup>1</sup>, Bar Light<sup>2</sup>, Dino Levy<sup>1</sup>

<sup>1</sup>Tel Aviv University, <sup>2</sup>Stanford University

**2-I-45 Ergodicity-breaking reveals time optimal economic behavior in humans**

David Meder<sup>1</sup>, Finn Rabe<sup>1</sup>, Tobias Morville<sup>2</sup>, Kristoffer Madsen<sup>1</sup>, Magnus Koudahl<sup>1</sup>, Ray Dolan<sup>1</sup>, Hartwig Siebner<sup>1</sup>, Oliver Hulme<sup>1</sup>

<sup>1</sup>Danish Research Centre for Magnetic Resonance, <sup>2</sup>Copenhagen University Hospital Hvidovre

**2-I-46 The effect of subjective loss on negative emotion and risk taking**

Dongmei Mei<sup>1</sup>, Liman Man Wai Li<sup>2</sup>, Tong Li<sup>3</sup>

<sup>1</sup>Sun Yat-sen University, <sup>2</sup>The Education University of Hong Kong, <sup>3</sup>Qiannan Normal University for Nationalities

**2-I-47 Persistence in base-rate neglect is associated with weighting subjective uncertainty on prior distributions**

Chia-Jen Lee<sup>1</sup>, Shih-Wei Wu<sup>1</sup>

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

**J – SOCIAL REWARDS & SOCIAL PREFERENCES**

**2-J-48 Reputational influences on charitable and self-interested motivations**

Dianna Amasino<sup>1</sup>, Scott Huettel<sup>2</sup>, Alan Sanfey<sup>3</sup>

<sup>1</sup>University of Amsterdam, <sup>2</sup>Duke University, <sup>3</sup>Radboud University

**2-J-49 Testosterone administration increases social discounting in healthy males**

Yin Wu<sup>1</sup>

<sup>1</sup>Shenzhen University

**2-J-50 Does unfairness sound wrong? A cross-domain investigation of expectations in music and social decision-making.**

Claudia Civali<sup>1</sup>, Rachel Teodorini<sup>1</sup>, Elisa Carrus<sup>1</sup>

<sup>1</sup>London South Bank University

**2-J-51 Plenty more fish in the sea: People forage for fairness among potential social partners**

Anthony Gabay<sup>1</sup>, Matthew Apps<sup>1</sup>

<sup>1</sup>University of Oxford

**2-J-52 Dynamics of Adaptation to Social Norms**

Uri Hertz<sup>1</sup>

<sup>1</sup>University of Haifa

**2-J-53 Role of the rDLPFC in prosocial motivation and self-maximization: rTMS study**

Oksana Zinchenko<sup>1</sup>, Olga Savello<sup>1</sup>, Vasily Klucharev<sup>1</sup>

<sup>1</sup>National Research University Higher School of Economics

**2-J-54 The effects of type and time of response to unfairness on impression formation**

Gahyun Lim<sup>1</sup>, Hackjin Kim<sup>1</sup>

<sup>1</sup>Korea University

**K – VALUATION & VALUE SYSTEMS**

**2-K-55 Developmental differences in the neural mechanisms underlying effort-based decision-making**

Amanda Arulpragasam<sup>1</sup>, Allison LoPilato<sup>1</sup>, Brittany DeVries<sup>1</sup>, Ellen Andrews<sup>1</sup>, Jessica Cooper<sup>1</sup>, Edward Craighead<sup>1</sup>, Michael Treadway<sup>1</sup>

<sup>1</sup>Emory University

**2-K-56 Misattributing incidental affect on individuals' consumption utility**

Aiqing Ling<sup>1</sup>, Nathalie George<sup>2</sup>, Baba Shiv<sup>3</sup>, Hilke Plassmann<sup>4</sup>

<sup>1</sup>UCD, <sup>2</sup>UPMC, <sup>3</sup>Stanford Business School, <sup>4</sup>INSEAD

**2-K-57 *tDCS-induced modulation of the feedback-related negativity in the MID task***

Aleksei Gorin<sup>1</sup>, Anna Shestakova<sup>1</sup>, Valeriy Klyuchnikov<sup>1</sup>,  
Victoria Moiseeva<sup>1</sup>, Vasily Klucharev<sup>1</sup>

<sup>1</sup>National Research University Higher School of Economics

**2-K-58 *Naturalizing motivational salience in brain and behaviour***

Jae-Chang Kim<sup>1</sup>, Lydia Hellrung<sup>1</sup>, Marcus Grüschow<sup>1</sup>,  
Philippe Tobler<sup>1</sup>

<sup>1</sup>UZH

**2-K-59 *Tired of working: Neurocomputational mechanisms of motivational fatigue in effort-based valuation***

Tanja Müller<sup>1</sup>, Campbell Le Heron<sup>2</sup>, Miriam Klein-Flügge<sup>1</sup>,  
Masud Husain<sup>1</sup>, Matthew Apps<sup>1</sup>

<sup>1</sup>University of Oxford, <sup>2</sup>New Zealand Brain Research Institute

**2-K-60 *Neural mechanisms underlying effortful persistence***

Lauren Patrick<sup>1</sup>, Kevin Anderson<sup>1</sup>, David Gruskin<sup>1</sup>,  
Avram Holmes<sup>1</sup>

<sup>1</sup>Yale University

**POSTER SESSION 3**

**SUNDAY OCTOBER 6, 2019**

**B – CHOICE & CHOICE MECHANISMS**

**3-B-1 *No compromise! No context dependent decision bias in older participants with declining availability of presynaptic dopamine.***

Verena Wackershauser<sup>1</sup>, Claudia Brunnlieb<sup>2</sup>, Matthew Betts<sup>3</sup>,  
Ivayla Apostolova<sup>4</sup>, Theo Gruendler<sup>1</sup>, Emrah Düzel<sup>3</sup>, Bodo Vogt<sup>1</sup>  
<sup>1</sup>Otto-von-Guericke University, <sup>2</sup>VDI/VDE-IT, <sup>3</sup>German Center for Neurodegenerative Diseases, <sup>4</sup>University Hospital Hamburg-Eppendorf

**3-B-2 *The role of information lifespan and rate of information flow on decisions involving tradeoffs between time and information***

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

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

**3-B-3 *A reversed memory bias on value-based decisions in the loss domain***

Regina Weillbächer<sup>1</sup>, Peter Kraemer<sup>1</sup>, Sebastian Gluth<sup>1</sup>

<sup>1</sup>University Basel

**3-B-4 *Transdiagnostic phenotyping reveals a range of metacognitive deficits associated with compulsivity***

Tricia Seow<sup>1</sup>, Claire Gillan<sup>1</sup>

<sup>1</sup>Trinity College Dublin

**3-B-5 *Pupillary and microsaccadic responses to cognitive effort and emotional arousal during multi-attribute decision making***

Szymon Wichary<sup>1</sup>, Justyna Zurawska<sup>2</sup>, Andrew Duchowski<sup>3</sup>,  
Krzysztof Krejtz<sup>2</sup>

<sup>1</sup>Leiden University, <sup>2</sup>University of Social Sciences and Humanities,  
<sup>3</sup>Clemson University

**3-B-6 *Evaluation of graphical visualization behavioral in a multi-criteria decision making context***

Lucia Reis Peixoto Roselli<sup>1</sup>,  
Anderson Lucas Carneiro de Lima da Silva<sup>1</sup>,  
Adiel Teixeira de Almeida<sup>1</sup>

<sup>1</sup>Federal University of Pernambuco

**3-B-7 *Computational markers of individualized learning: Large-scale meta-analysis of nonreinforced preference modification studies***

Tom Salomon<sup>1</sup>, Nathaniel Daw<sup>2</sup>, Tom Schonberg<sup>1</sup>

<sup>1</sup>Tel Aviv University, <sup>2</sup>Princeton University

**3-B-8 *Influence of chronic stress on economic decision-making in mice***

Rapheal Williams<sup>1</sup>, Paul Phillips<sup>1</sup>

<sup>1</sup>University of Washington

### 3-B-9 *Explicit value cues alter the decision process*

Blair Shevlin<sup>1</sup>, Stephanie Smith<sup>2</sup>, Jan Hausfeld<sup>3</sup>, Ian Krajbich<sup>1</sup>  
<sup>1</sup>The Ohio State University, <sup>2</sup>UCLA, <sup>3</sup>University of Bern

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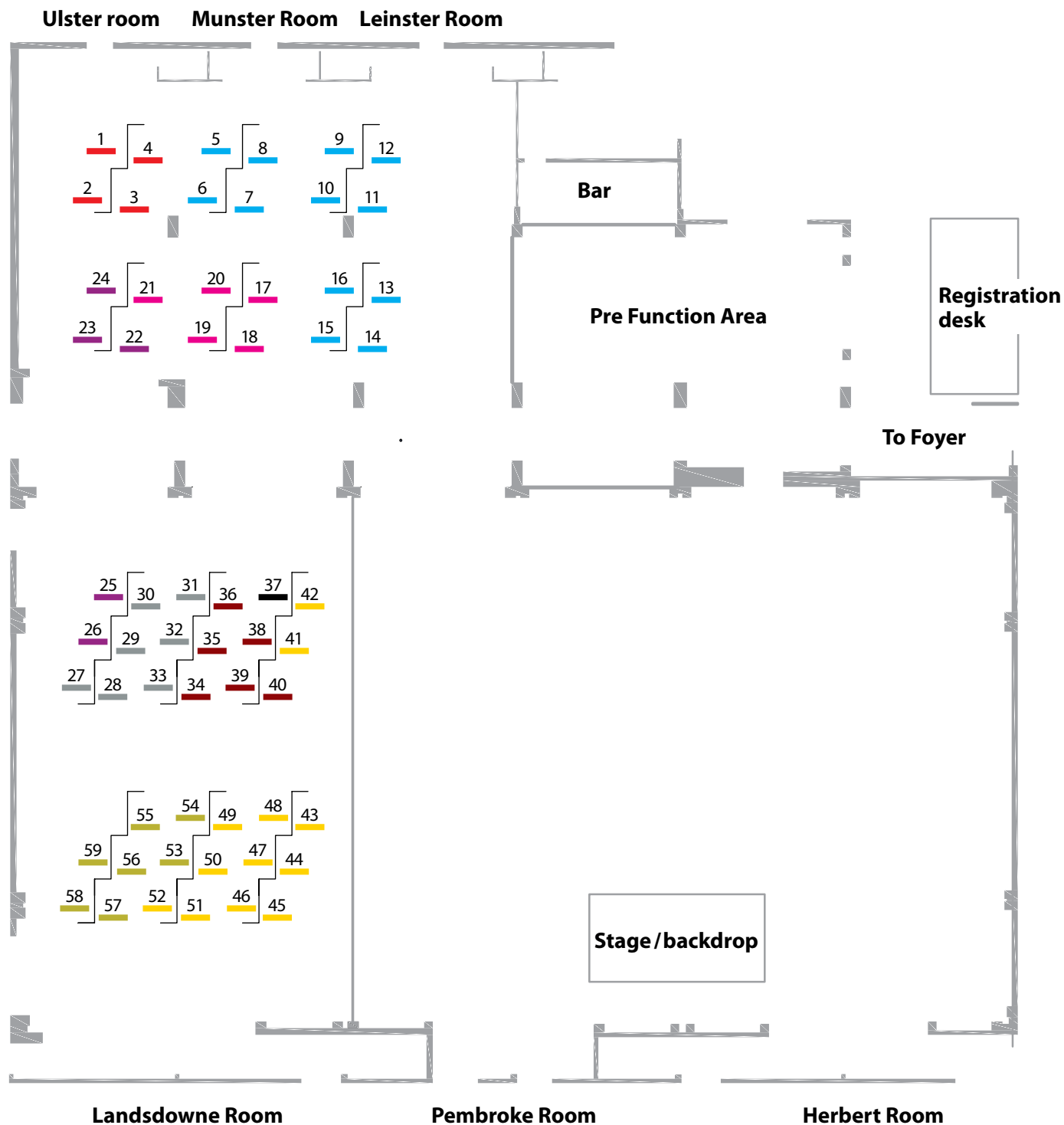
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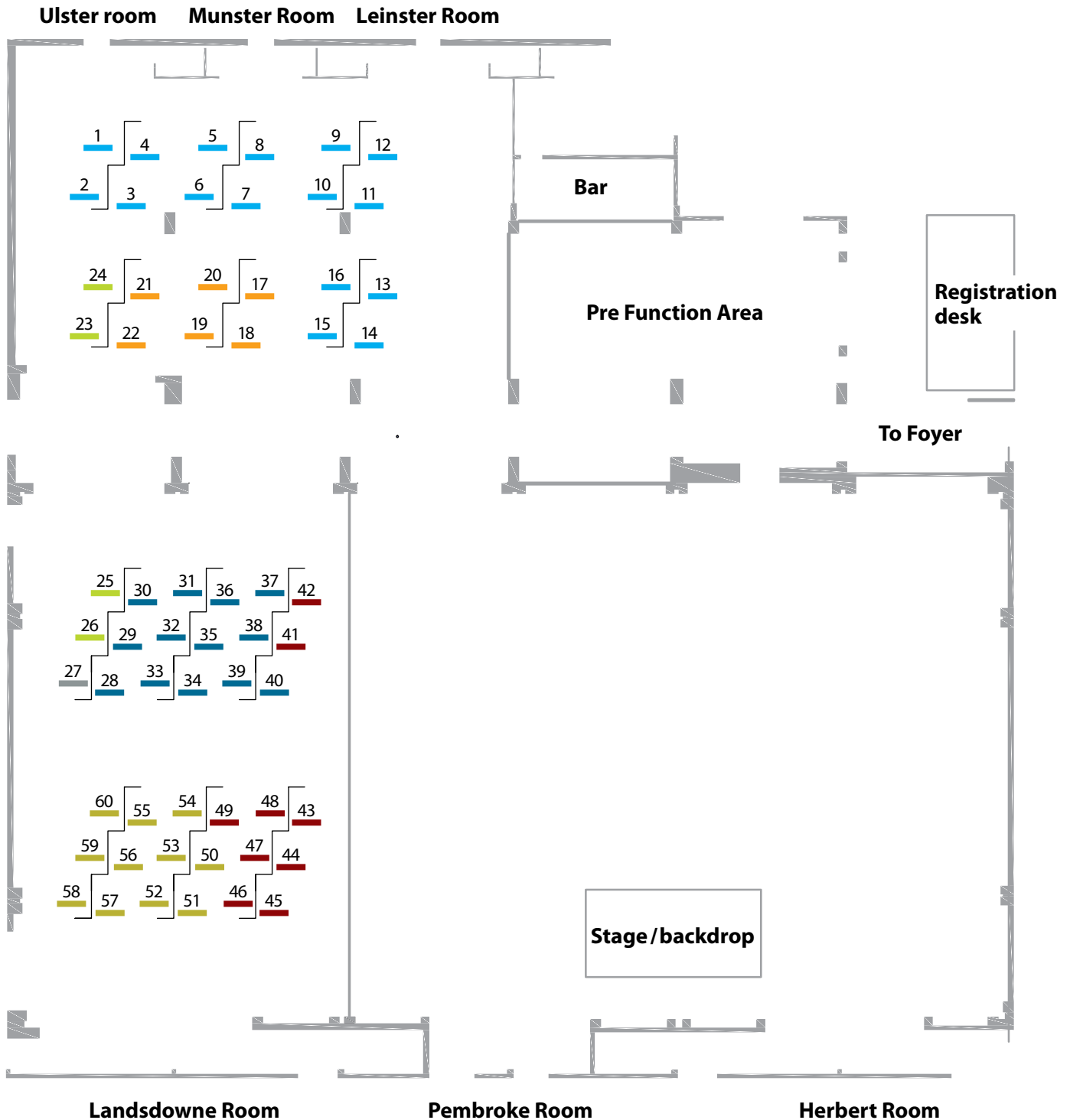
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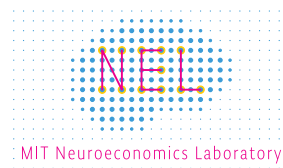
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