

Program ASSC 25 Amsterdam

	Tuesday July 12th	Wednesday July 13th	Thursday July 14th	Friday July 15th
9:00	Tutorials session 1	Concurrent talks 1 - 4	Parallel symposia 1 & 2	Parallel symposia 3 & 4
9:30				
10:00				
10:30				
11:00				
11:30	Keynote prof. Bayne – A0.01	Keynote prof. Roelfsema – A0.01	Keynote prof. Tracey – A0.01	
12:00	Tutorials session 2	On site lunch		
12:30				
13:00		Poster session 1 – 'de Brug'	Poster session 2 – 'de Brug'	Poster session 3 – 'de Brug'
13:30				
14:00				
14:30	Consciousness debate part 1	Concurrent talks 5-8	Concurrent talks 9-12	
15:00	16:15 Opening – A0.01			
15:30	Presidential address prof. Pacherie – A0.01	Snacks		
16:00	Keynote prof. Sergent – A0.01	Consciousness debate part 2	Canal boat tour	W. James Prize - A0.01
16:30				Closing ceremony – A0.01
17:00				
17:30	Reception – Hotel Arena		Conference dinner - Noorderlicht	
18:00				
18:30				
19:00				
19:30				
20:00				
20:30				
21:00				Conference party – Brazilian Roots
21:30				

The conference takes place at the Roeterseiland Campus of the University of Amsterdam in buildings A and C. The registration/information desk in hall A will be open every day from 8:00 until 19:30.

Tuesday July 12th

9:00-12:00

Tutorials session 1

A practical guide to collaborative consciousness science	Rony Hirschhorn Csaba Kozma Tanya Brown Alex Lepauvre	A2.06
Information theory tools for practical analyses of neuroscientific data	Pedro A.M. Mediano Fernando E. Rosas Daniel Bor	A2.07
Modeling metacognition using the HMeta – d toolbox	Stephen Fleming	A2.10
Neurophenomenology and micro-phenomenology to the study of the subjective experience	Adriana Alcaraz Sanchez Fynn-Mathis Trautwein Ema Demšar Ohad Nave	A2.09

13:00-16:00

Tutorials session 2

Fitting SDT, meta-d' and other ordinal models using the bhsdtr2 package	Borysław Paulewicz	A2.08
Integrated information theory – overview and recent developments towards IIT 4.0	Larissa Albantakis William Marshall Melanie Boly	A2.07
The ethics of animal consciousness	Timo Stein Matan Mazor	A2.10
The inner workings of registered reports	Zoltan Dienes	A2.06
Time and consciousness	Paula Droege	A2.09

16:15 – 16:30

Opening

A0.01

16:30 – 17:30

Presidential address by prof. Elisabeth Pacherie

A0.01

Shared experiences

We are conscious creatures but we are also hyper-social creatures. Indeed, some of our more vivid experiences appear to be shared experiences: the joy experienced by supporters when their team wins a game, the sense of joint agency experienced by the team members when playing together or the memories evoked when old war veterans reminisce together. However, the exact nature of such shared experiences remains difficult to pin down. In what sense must experiences be related to qualify as shared experiences? What specific subjective qualities, if any, characterize them in contrast to purely individual experiences? What are the cognitive processes responsible for their emergence? What are the factors modulating these experiences? How can they be studied experimentally? I will try and provide some tentative and partial answers to these questions. Taking the experience of joint agency as my main case study, I will delineate a conceptual framework for approaching this phenomenon and present some recent empirical work. In closing, I will highlight some of the many outstanding questions we face and promising avenues of research.

17:30 – 18:30

Keynote by prof. Claire Sergent

A0.01

The global workspace and the global playground: a functional perspective on consciousness beyond task-related processes

When we contrast how the brain processes the same external stimulation according to whether we report it as perceived or not, we observe a whole series of neural events that correlate with this conscious report. One of the challenges we are now facing in consciousness research is to identify, among these correlates, what corresponds to core mechanisms of conscious access, and distinguish them from upstream events, such as early sensory processing, that influence the future conscious or unconscious fate of an information, and from downstream events that reflect a mere consequence of conscious access, such as the possibility to engage in explicit decision-making tasks or reports. Here I will present the results of two experimental approaches that we are currently developing in my team to perform this dissection, and I will discuss their potential for identifying neural signatures of conscious access independent of report. These new developments call for an extension of functional perspectives on consciousness such as the global workspace model, to explain conscious experience beyond task-related processes.

19:00 – 22:00

Reception

Hotel ArenA

Wednesday July 13th

9:00-11:00

Concurrent talks 1 – Perceptual Consciousness 1

C1.03

Tonic catecholamine activity and spatial attention jointly shape visual perception	Stijn Nuiten	9:00
Visual ambiguity facilitates access to consciousness	Nadav Amir	9:15
Using Saccade-Induced Change Blindness to Refine Existing Theories of Conscious Perception	Brian Odegaard	9:30
Perceptual expectations and false percepts generate stimulus-specific activity in distinct layers of the early visual cortex	Joost Haarsma	9:45
Perceptual Awareness Negativity - does it reflect awareness or attention?	Michal Bola	10:00
Reproduction, but not confidence, can dissociate conscious perception from non-perceptual bias	Nicolás Sánchez-Fuenzalida	10:15
How to create new visual illusions (and why it matters)	Arthur Shapiro	10:30
Two Puzzles for Attention Science	Rebecca Keller	10:45

9:00-11:00

Concurrent talks 2 – (Measuring) unconscious processes

C1.04

Unconscious reactions and reactions to unconscious stimuli	Tomáš Dominik	9:00
Progressing, not regressing: a possible solution to the problem of regression to the mean in unconscious processing studies	Itay Yaron	9:15
Measurement Error and the Investigation of Unconscious Mental Processes	Simone Malejka	9:30
How (not) to underestimate unconscious perception	Matthias Michel	9:45
Feasibility of Unconscious Instrumental Conditioning: A Registered Replication	Ryan Scott	10:00
Adaptively conscious: Stimulus awareness is necessary for both instrumental learning and responding to previously learned stimuli	Lina Skora	10:15
Validating the threshold of conscious sensory perception	Aaron Schurger	10:30
Bias in assessing awareness in research on unconscious mental processes	David Shanks	10:45

Wednesday July 13th

9:00-11:00	Concurrent talks 3 – Consciousness in the clinic	A1.02
	Stimulation of the subthalamic nucleus increases confidence in conscious perception	Audrey Kist 9:00
	Early cognitive decline in Parkinson's disease is associated with enhanced frontal theta oscillations and minor hallucinations	Fosco Bernasconi 9:15
	Neural signatures of unresponsiveness vs unconsciousness during seizures	Urszula Gorska 9:30
	Breathing patterns signal consciousness state, recovery and survival in disorders of consciousness	Anat Arzi 9:45
	Investigation of apomorphine-related neural mechanisms in severe brain-injured patients with prolonged disorders of consciousness	Emilie Szymkowicz 10:00
	Neurophysiological interpretable and quantitative screening of Disorders of Consciousness beyond behavioural responsiveness	Michele A. Colombo 10:15
	Multicentre Study on tDCS in Patients with Disorders of Consciousness: A Sham Controlled Double Blind Randomized Trial	Aurore Thibaut 10:30
	High density EEG signatures of connected vs disconnected consciousness during REM sleep	Benedetta Cecconi 10:45
9:00-11:00	Concurrent talks 4 – Philosophical and experimental approaches to understanding perceptual experience	C0.02
	Does consciousness emerge?	Carolyn Dicey Jennings 9:00
	The Emperor's New Markov Blankets	Manuel Baltieri 9:15
	Conscious appreciation of the reliability of an inference	Nicholas Shea 9:30
	Phenomenal consciousness: in search of property Σ	Herman de Regt 9:45
	Background organismic sentience, a key bridge between life and mind	Ignacio Cea 10:00
	Sensory qualities and labelled lines: the case of thermosensation	Patrick Haggard 10:15
	Role of Conscious Perception in Semantic Processing	Nitzan Micher 10:30
	Imagination - constructing an internal conscious landscape	Oryan Zacks 10:45
11:00 – 11:30	Coffee	Hall A

Wednesday July 13th

11:30 – 12:30

Keynote by prof. Tim Bayne

A0.01

Organoids, Androids and the Consciousness Club

At present, the creation of conscious agents involves techniques that will be familiar to anyone who has spent time on a farm or taken a sex education class. These techniques will surely remain popular, but we may soon have new ways to create conscious agents. One possible path to synthetic consciousness involves human brain organoids; another involves AI systems, such as the descendants of IBM's Watson and DeepMind's AlphaZero. Even if neither of these paths do in fact lead to the creation of synthetic consciousness, they are likely to lead to the creation of artefacts that might reasonably be taken as conscious. These developments raise a number of deep and difficult questions. Should we expand the membership of the 'consciousness club' by creating new kinds of conscious agents, or would any attempt to bring new kinds of conscious entities into existence be morally problematic? Whose interests should we take into account in considering whether or not to create synthetic consciousness? What difference would (or should) consciousness make to our treatment of artefacts? This talk explores these (and other) questions, focusing on how debates about the nature of consciousness might influence their answers.

12:30 – 14:00

Lunch

TBA

13:30 -15:30

Poster session 1

Topics: time perception; confidence and metacognition; disorders of consciousness; interoception, pain and emotion; methods and paradigms; philosophy of mind; unconscious processes; volition; perceptual consciousness

'de Brug' /
the bridge

Time perception

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Sub-second dopamine fluctuations in human striatum and their role in trial-to-trial variations in interval timing	Renata Sadibolova	1
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Confidence and metacognition

A low-dimensional approximation of optimal confidence	Pierre Le Denmat	2
Action planning modulates perceptual confidence	Remi Sanchez	3
Decision confidence underlies both attractive and repulsive history biases	Robin Vloeberghs	4
Expectations about precision bias metacognition and awareness	Helen Olawole-Scott	5
Getting drowsy but knowing you are doing it worse: impaired performance but preserved metacognition as we fall asleep	Joaquim Streicher	6
Identifying shared markers of evidence accumulation and confidence using stereotactic electroencephalography	Nathan Faivre	7
Individual Differences in the Vividness of Visual Imagery and Episodic Memory	Nora Andermane	8
Is Metacognition Domain-specific or Domain-general?	Astrid Emilie Lund	9
Manipulating prior beliefs causally induces under- and overconfidence	Hélène Van Marcke	10
Mind wandering as inference: contextual cues shape mind wandering reports	Naya Polychroni	11

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Modulation of the Centroparietal Positive Potential by Strength and Amount of Evidence and its Relation to Decision Confidence	Maximilian Bruchmann	12
Noradrenaline encodes surprise and confidence during learning in stochastic and changing environments	Audrey Mazancieux	13
Reward makes it feel less costly: subjective experience of effort is constructed weighing contextual cues	Gaia Corlazzoli	14
Should I sample or should I go: Deciding when to stop sampling and how confidence relates to stopping decisions	Esin Turkakin	15
Why does it feel good to be sure? A unifying framework of decision confidence and affect	Alan Voodla	16
Comparing signal detection theoretic models of visual metacognition	Manuel Rausch	17
Pre- and post-decisional event-related potential (ERP) correlates of decision confidence are differentially related to decision accuracy	Yiu Hong Ko	18
Differential relationship between response dynamics and the formation of confidence varies across the adult lifespan	Helen Overhoff	19
Metacognitive domains do not group based on internal vs. external sources of information	Polina Arbuzova	20
Subjective attentional focus and fluctuations in objective task performance are reliable but unrelated traits	Marlou Nadine Perquin	21
Bayesian meta-analysis reveals increase in metacognitive efficiency through feedback	Sucharit	22
An improved framework for self-directed reflection	Verena Gottschling	23
New goal-dependent evidence bias in human decision confidence: experimental evidence and theoretical insights	Pradyumna Sepulveda	24
Dynamic Causal Modelling of a Neural Network Supporting Decision Confidence	Yuena Zheng	25
Influence of prior knowledge on retrospective episodic memory confidence judgments	Meline Devaluez	26
<i>Disorders of consciousness</i>		
Ketamine to treat disorders of consciousness: a pilot protocol	Paolo Cardone	27
Probing the threshold of conscious perception in patients with disorder of consciousness	Martina Corazzol	28
Developing a theoretical framework for multimodal diagnostic assessment for disorders of consciousness	Jasmine Walter	29
Perturbational Complexity Index detects capacity for consciousness before recovery of behavioral responsiveness in subacute brain-injured patients	Mario Rosanova	30
Propofol-induced changes in EEG aperiodic component has diagnostic value for patients in disorders of consciousness	Charlotte Maschke	31
Participatory time-making: the co-embodied relational basis of time-consciousness in humans	Anna Ciaunica	32
Differences in EEG microstates dynamics among groups of patients with disorders of consciousness	Dragana Manasova	33
Spatiotemporal causal interactions show that posterior integration and thalamo-frontotemporal broadcasting are impaired in disorders of consciousness	Rajanikant Panda	34
Network criticality and its anesthetic-induced changes are associated with level of consciousness in disorders of consciousness	Guillermo E. Martinez Villar	35
Preservation of cardio-audio regularity processing as a predictor of coma outcome	Andria Pelentritou	36

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Alterations in visual function and posterior metabolism correlate with consciousness levels of brain-injured patients	Leandro R. D. Sanz	37
Transcutaneous auricular vagal nerve stimulation as a treatment for disorders of consciousness: a randomized placebo-controlled double-blind trial	Marie Vitello	38
Characterization of the endotype of disorders of Consciousness responders to tDCS	Alice Barra	39
<i>Interoception, pain and emotion</i>		
Body-Wandering: Investigating the Subjective and Physiological Fingerprints of Interoceptive Mind-wandering	Leah Banellis	40
Distinguishing Interoceptive Accuracy and Precision: A Multidimensional Psychophysical Approach	Nicolas Legrand	41
Heartbeat-evoked response and ongoing brain oscillations during interoceptive and exteroceptive information processing predict attentional focus	Emilia Fló	42
Incongruent interoceptive signals shift our attention to ourselves	Paradeisios Alexandros Boulakis	43
The predictive brain in pain, cross-views from Bayesian inference and meditation	Arnaud Poublan-couzardot	44
The perception of interoceptive signals in blind individuals	Dominika Radziun	45
Neural dynamics during experiencing different types of interoception	Yusuke Haruki	46
Affective expectations are modulated by the interplay between visceral signals and uncertainty of the sensory environment	Alexandrina Vasilichi	47
Conscious agency over breathing movements is coupled with automatic breathing motor adaptation	Sophie Betka	48
<i>Methods and paradigms</i>		
Consciousness Science needs some Rest	Marcin Koculak	49
Contextual Cueing: Evidence for Implicit Recognition or Not?	Sascha Meyen	50
Exploring Causal Emergence in simulated networks	Nadine Spsychala	51
Tackling the Sampling Bias Problem when Estimating Information Decomposition Measures from Neuroimaging Data	Juan Carlos Farah	52
Telling between strong and weak null results using non-directional tests	Itay Yaron	53
The Consciousness Questionnaire	Renate Rutiku	54
Listening to experience: Improving neuroimaging with micro-phenomenology	Chris Allen	55
Dissociating subjective visibility and objective accuracy in time	Zefan Zheng	56
Dynamical Independence: Discovering emergent macroscopic processes in complex neural systems	Lionel Barnett	57
Disentangling Unique and Synergistic Components of Information Flow in Neuroimaging Data	Sebastián Dohnány	58
Role of Synergy and Redundancy in neural information flow of conscious and unconscious subjects	Alberto Liardi	59
<i>Philosophy of mind</i>		
Qualia as Perspective-Induced Nonstructural Impressions	Kristjan Loorits	60
Conscious and unconscious phenomenality: changes in the conceptual relations between phenomenality, what it is likeness and consciousness	Michal Polák	61

Wednesday July 13th

Illusionism or non-computationalism: no easy solution to the problem of consciousness	Yair Pinto	62
How to get rich from inflation	Simon Brown	63
<i>Unconscious processes</i>		
Semantic evidence accumulation without metacognition and awareness: evidence from psychophysical and fMRI decoding studies	Patxi Elosegi	64
Statistical learning facilitates access to awareness	Luzi Xu	65
Unconscious Processing in the Wild: Multi-trial Inattentional Blindness in Virtual Reality	Rony Hirschhorn	66
Reversed association between discrimination performance and visibility reports	Pietro Amerio	67
Prime-induced illusion of control: The role of regression-to-the-mean artifacts	Fabian Kiepe	68
<i>Volition</i>		
Patterns of Introspection: Awareness of Intention in Matsushita task	Ondrej Becev	69
The Role of Mental Imagery in the Experience of Volition	Paulius Rimkevičius	70
How are the awareness of voluntary actions and the readiness potential impacted by peripersonal space and action-outcome?	Gaiqing Kong	71
Pupillary antecedents of spontaneous voluntary action	John Gavenas	72
<i>Perceptual consciousness</i>		
Presence-absence asymmetries in predictive perception	Matan Mazor	73

15:30 – 19:30

The Great Consciousness Debate

Moderated by prof. Lucia Melloni & prof. Liad Mudrik

A0.01

Prof. Stanislas Dehaene, prof. Stephen Fleming, prof. Melanie Boly,
prof. Anil Seth, prof. Victor Lamme

Thursday July 14th

9:00-11:00	Parallel symposium 1 – The interplay between beliefs and perceptual awareness	C1.03
	How do beliefs shape perception?	Clare Press
	How do we separate beliefs from perception?	Floris de Lange
	Epistemic structures in perception	Zoe Jenkin
	Learning, influence, and psychopathology impact perception	Philip Corlett
9:00-11:00	Parallel symposium 2 – Global Neuronal Workspace vs. Integrated Information Theory: Methods, predictions, and competing interpretations from the COGITATE adversarial collaboration	C1.04
		Francis Fallon
		Urszula Górska
		Oscar Ferrante
		Ling Liu (presented by Gabriel Kreiman)
11:00 – 11:30	Coffee	Hall A
11:30 – 12:30	Keynote by prof. Pieter Roelfsema	A0.01
	Interactions between cortical neurons that give rise to conscious perception	
	<p>Why are some visual stimuli consciously perceived, whereas others remain subliminal? I will discuss how weak but simple stimuli reach access consciousness once they elicit a minimal level of activity in the frontal cortex, leading to their storage in working memory. For simple stimuli, the visual cortex apparently acts as a relay station that needs to pass the information to higher cortical areas but is not essential for report. However, we found that the perception of more complex visual stimuli relies on a more sustained interaction between visual cortex and associative brain regions, related to scene segmentation and visual attention. The implication is that the processes subserving conscious perception depend on the complexity of perceptual processing. These results pave the way for a genuine understanding of the mechanisms for phenomenal and access consciousness in perception. I will propose a generalization of the distinction between phenomenal and access consciousness to memory, where some items are in iconic memory, others are in the focus of attention within memory and yet others are accessory, i.e. stored for later use. I will demonstrate how iconic memory corresponds to a decaying neuronal activity trace in early visual cortex whereas items in working memory are stored by persistent firing. Items in the focus of attention within working memory elicit more persistent activity than the ones that are accessory. The new results call for a re-evaluation of the relationship between consciousness and attention.</p>	

Thursday July 14th

13:30 -15:30	Poster session 2	'de Brug' / the bridge
Topics: models and theories of consciousness; body, agency and the self; animal and machine consciousness; neural correlates and mechanisms; functions of consciousness; ethics and morality; development and learning		
<i>Models and theories of consciousness</i>		#
Attributing awareness to the self and others	Rachel Metzgar	1
Deep neural networks trained for speech recognition do not generalize to sine-wave speech	Yunkai Zhu	2
Filled/non-filled pairs: An empirical challenge to integrated information theory	Amber Hopkins	3
Modelling the Dynamics of Consciousness with Mean-Field Differential Equations	Cornelia Sheeran	4
Unfolding underdetermination in consciousness science	Marlo Paßler	5
Attractor landscapes in the (conscious, behaving) Bayesian brain	Eelke Spaak	6
Matching integrated information with the external world	Niccolo Negro	7
Minimal Models of Consciousness	Wanja Wiese	8
RateML: A Code Generation Tool for Brain Network Models	Michiel van der Vlag	9
Towards integrating mathematized phenomenology with the scientific study of consciousness	Robert Prentner	10
Phenomenal content and nondual awareness	Zoran Josipovic	11
Brainish: Formalizing A Multimodal Language for Intelligence and Consciousness	Paul Pu Liang	12
Integrated Model for Consciousness by Incorporating an Operator in Orch-OR Theory	Gregory Mathew	13
Self-Consciousness, Anxiety Management and Foresight. An Evolutionary Approach	Christophe Menant	14
A Genetic Basis for 16 Variations in Consciousness	James Olson	15
Explaining awareness with precision?	Daniel Yon	16
Axiomatic and graphical mathematics to describe the structure of experience	Camilo Miguel Signorelli	17
Fluency Alone Does Not Explain Illusory Truth	Nicolas Porot	18
<i>Body, agency and the self</i>		
Choice blindness persists despite explicit instructions to detect false feedbacks: preliminary evidence for a Bayesian model of choice blindness	Gabriel Vogel	19
Conscious and unconscious influences on self-face perception	Tommaso Ciorli	20
Exploring Sense of Agency with Noninvasive Brain Stimulation: a tRNS/tACS study	Olga Laskov	21
I move therefore I am or I move therefore he is. Do motion kinematics encode information regarding agency processes?	Asaf Applebaum	22
Inducing presence hallucinations by sensorimotor conflicts during locomotion	Selim Habiby Alaoui	23
Interplay of tactile and motor information in constructing spatial self-perception	Antonio Cataldo	24
Living in a Dream: Body and self experience during waking and dreaming states in depersonalisation.	Matt Gwyther	25
Neural Correlates of the Bodily Self: an fMRI study of Ownership and Agency	Ariel Shaked	26
Rekindling childhood memories by generating ownership for one's own younger face	Utkarsh Gupta	27

Thursday July 14th

Bias-free quantification of body ownership in the rubber hand illusion: a signal detection study	Renzo Lanfranco	28
Inducing Out-of-body experiences through visuo-vestibular stimulation using mixed reality on a motion platform	Hsin-ping Wu	29
A non-linear relationship between self boundaries and perspectival ownership of experience	Lena Lindström	30
Tactile self-other-distinction in anorexia and autism	Rebecca Boehme	31
Being and having a body in development: what modulates bodily-self-consciousness during adolescence?	Raoul Lisa	32
Making 'sense' of agency: the self is coded with reference to its location in space	Debbie de Boer	33
On the influence of hierarchical environments on the human sense of agency	Emilie Caspar	33
Alleviating the measurement crisis in the body ownership field through the use of a dual target presentation format	Piotr Litwin	34
Somatic Alienation: what it's like, a hypothesised mechanism, and in investigative method	Kranti Saran	35
<i>Animal and machine consciousness</i>		
Jack of All Trades, or Master of One: Distinct Features Between Generalizable and Specialized Artificial Neural Representations	Alexandra Proca	36
On the link between conscious function and general intelligence in humans and machines	Arthur Juliani	37
<i>Neural correlates and mechanisms</i>		
"Laurel & Yanny": EEG Neural Correlates of an Auditory Bistable Language Stimulus	Alexander Franklin	38
A no-report dichoptic color fusion EEG paradigm for isolating NCCs	Madeleine Fenner	39
Cognitive control neural reconfiguration styles when under attentional or alertness stress	Margot Steijger	40
Disentangling Psychophysiological Correlates of Consciousness and Attention. The effects of cueing on the detection, identification and visibility.	Wiktoria Jakubowska	41
Domain-specificity of error monitoring: an ERP study	Sabrina Lenzone	42
Electrophysiological correlates of auditory and visual awareness: in search for domain-specific and domain-general mechanisms of conscious perception	Kinga	43
Graviceptive contribution to first-person perspective: behavioral and fMRI neural correlates	Estelle Nakul	44
How working memory load affects conscious and unconscious neural processing of task-irrelevant acoustic stimuli	Laura Brockhoff	45
Identifying content-independent neural correlates of awareness	Benjy Barnett	46
Laminar Specificity of the Auditory Awareness Negativity Under Multitone Masking: A Biophysical Modeling Study	Andrew Dykstra	47
Mindful mental states can modulate neural signals that encode food preferences	Constanza Baquedano	48
Modality-specific and modality-general electrophysiological correlates of visual and auditory awareness: Evidence from a bimodal ERP experiment	Dmitri Filimonov	49
Noradrenaline as a key neurotransmitter in modulating consciousness	Olympia Karampela	50
Propofol disrupts asynchronous functional connectivity architectures in the human brain that are associated with the processing of complex stimuli	Greg Cooper	51
Synergistic and redundant patterns of information across cortical regions underlie visual and auditory perception	Florian Burger	52

Thursday July 14th

Thalamocortical causal communications in conscious perception	Byoung-Kyong Min	53
Tracking unexpected sensory events at different time scales dissociates modality-specific and supramodal dynamics along a cortical hierarchy	Maria Niedernhuber	54
Visual retro-cues reactivate past spoken words in a dichotic listening paradigm	Axel Garnier-Allain	55
Preserved electrophysiological markers of confidence in schizophrenia	Rouy Martin	56
EEG correlates of bodily self-consciousness during spatial navigation	Emanuela De Falco	57
Investigating the spatiotemporal dynamics of intracerebral EEG recordings to sounds around the perceptual threshold in the presence and absence of a task	Daphné Rimsky-Robert	58
Early visual potentials at the sensory threshold are selectively modulated by cardiac and respiratory cycles	Viviana Leupin	59
The 2-feature Simultaneous Type/ Serial Token model: behaviour and event related potentials for distractor intrusion errors and a link between selective attention and access to consciousness	Mahan Hosseini	60
A mechanistic model of the neural entropy increase elicited by psychedelic drugs	Rubén Herzog	61
Information flow among visually responsive ECoG sites in human cortex	Guillaume Corlouer	62
Functional MRI investigation of the brain networks subtending task-related versus task-free auditory conscious perception	Julie Boyer	63
Neurophysiological mechanism imaging during xenon-induced reduction of consciousness: Whole-brain-to-posterior shutdown process	Levin Kuhlmann	64
Conceptual associations generate sensory expectations throughout the visual system	David Richter	65
Neural correlates of subjective attention focus and objective task performance	Aline Bompas	66
A new low: Reassessing (and revising) the local recurrency theory of consciousness	Benjamin Kozuch	67
Neural Correlates or Difference Makers for Consciousness?	Sascha Fink	68
Training individual differences in color qualia: representations in time and space	Olympia Colizoli	69
The three major features of consciousness naturally emerge from non-deterministic computation in cortical neural networks	Elizabeth Stoll	70
A connectome-based model of conscious access in monkey cortex	Ulysse Klatzmann	71
<i>Functions of consciousness</i>		
How alertness affects detection and discrimination decision-making performance as we fall asleep	Yanzhi Xu	72
The two lives of visual working memory – what we remember and how we perceive it.	Renate Rutiku	73
<i>Ethics and morality</i>		
Majority of Consciousness Researchers Surveyed Support Open Science Practices Despite Perceptions That Their Peers Are Less Supportive	Olivia Lowrey	74
<i>Development and learning</i>		
Can we train students to predict their sports performance?	Lise Brun	75
<i>States/levels of consciousness</i>		
Spatiotemporal dynamics of flow experience: an EEG microstate analysis	Shiva Khoshnoud	76
Age-dependent attentional style and arousal regulate reportability of spontaneous mental states	Matthieu Koroma	77

Thursday July 14th

15:30-17:30	Concurrent talks 5 – Models and theories of consciousness	C1.03
	Representation of content in sustained viewing conditions: a case study for consciousness theories	Gal Vishne 9:00
	What do recurrent processing theories predict about infant consciousness?	Claudia Passos 9:15
	Can introspection rescue causal structure theories, such as IIT, from the unfolding argument?	Michael Herzog 9:30
	New developments of sensorimotor theory of phenomenal consciousness: how different types of voluntary control determine the 'what it's like' of sensory, bodily, emotional and mental conscious experiences	J. Kevin O'Regan 9:45
	A Model of Unintentional Mind Wandering	Isaac Christian 10:00
	Ontogenetic emergence as a criterion for theories of consciousness: Comparing SOMA, GNW and REF-CON	Asger Kirkeby-Hinrup 10:15
	The Strength of Weak Integrated Information Theory	Pedro Mediano 10:30
	How long-lasting postdiction challenges local theories of consciousness	Adrien Doerig 10:45

15:30-17:30	Concurrent talks 6 – NCC 1	C1.04
	Decoding perceptual awareness across the brain with a no-report fMRI masking paradigm	Michael Cohen 9:00
	Distinct EEG bifurcation dynamics in report and no-report conditions of a visual masking paradigm	Michael Pitts 9:15
	Modeling bifurcation dynamics in neural networks during access consciousness : adding distributed coding and computations in the Global Neuronal Workspace Model.	Esther Poniatowski 9:30
	Large-scale, MRI-based neuroarchitectural mapping of consciousness	Kristian Sandberg 9:45
	Neural correlates vs. mechanisms of consciousness: a cautionary tale from mouse experiments	Umberto Olcese 10:00
	NMDA receptor antagonist memantine selectively affects recurrent processing and impairs conscious perception	Samuel Noorman 10:15
	Neural correlates of consciousness in an attentional-blink paradigm with uncertain target relevance	Torge Dellert 10:30
	Separate auditory and motor contributions to sound-evoked activity of neurons in primary visual cortex	Cyriel Pennartz 10:45

Thursday July 14th

15:30-17:30

Concurrent talks 7 – Time and volition

A1.02

Do Magnetoencephalography signals reveal a function that limits the pace of perceptual experience?	Chris Allen	9:00
Timekeeping in cortex: primary somatosensory cortex encodes time and temporal surprise	Rikki Rabinovich	9:15
From perceptual change to the experience of time via event segmentation	Alberto Mariola	9:30
No evidence for relationship between basic visual temporal precision and time estimation abilities	Isabel Maranhao	9:45
Voluntary action, sense of agency and uncertainty	Silvia Seghezzi	10:00
Baseline correction can lead to spurious results in readiness potential research	Lucas Jeay-Bizot	10:15
On the relationship between cardiac and skin-mediated interoceptive submodalities	Laura Crucianelli	10:30
The Cardiac Timing Toolbox (CaTT): Testing for physiologically plausible effects of cardiac timing on behaviour	Maxine Sherman	10:45

15:30-17:30

Concurrent talks 8 – Body, agency and the self

C0.02

Tracking conscious intentions during action formation	Uri Maoz	9:00
Sense of agency within a metacognitive framework: The role of visual feedback of movement and outcome on metacognitive representations of agency	Angeliki Charalampaki	9:15
My Uncertain Body: proprioceptive uncertainty and body ownership	Marie Chancel	9:30
Hierarchical Processing of the Embodied Sense of Agency and Its Metacognition	Amit Regev Krugwasser	9:45
Disrupting the sense of agency via closed-loop TMS-EMG	Alice Wong	10:00
Bodily self-consciousness impacts naturalistic episodic memory reinstatement	Nathalie Meyer	10:15
Depersonalization affects self-prioritization of bodily, but not abstract self-related information	Mateusz Wozniak	10:30
Volitional embodied-self dissolution in meditators is associated with beta attenuation in multisensory regions – a neurophenomenological MEG study	Fynn-Mathis Trautwein	10:45

Thursday July 14th

17:30 – 19:00

Canal boat tour (to conference dinner)

Departure near conference site

19:00 – 22:30

Conference dinner

Noorderlicht

A canal boat will take you to the dinner location. Vegetarian BBQ.

Friday July 15th

9:00-11:00	Parallel symposium 3 – Evidence accumulation and consciousness	C1.03
	A leaky evidence accumulation process for perceptual experience	Michael Pereira
	The accumulation of evidence for perception and confidence	Tarryn Balsdon
	Conscious correlates of evidence accumulation in perception and action	Elisabeth Pares Pujolras
	Mapping evidence accumulation to decision confidence	Kobe Desender
9:00-11:00	Parallel symposium 4 – Thought-full or thought-less: how empty can the conscious mind get?	C1.04
	Introduction: Motivation of symposium (3 minutes)	Athena Demertzi
	Kinds of empty minds	Jennifer Windt
	Exploring the presence and absence of mental objects during mindfulness practice	Antoine Lutz
	Sleep-like brain activity predicts when the mind goes blank	Thomas Andrillon
	At the boundaries of mental state reportability: the case of mind blanking	Athena Demertzi
	Panel discussion (final 17 minutes)	
11:00 – 11:30	Coffee	Hall A
11:30 – 12:30	Keynote by prof. Irene Tracey	A0.01
	Title TBA	

Friday July 15th

13:30 -15:30	Poster session 3		#
	Topics: perceptual consciousness; sleep and dreams; altered states of consciousness; states/levels of consciousness; consciousness in the clinic	‘de Brug’ / the bridge	
	<i>Perceptual consciousness</i>		#
	A neural field model of synergistic interactions across cortical regions during auditory prediction error.	Louis Roberts	1
	EEG Lempel-Ziv diversity is related to meaningfulness of a stimulus - differences between sensory modalities	Pawel	2
	Evidence accumulation explains the duration of perceptual experience and its associated confidence	Michael Pereira	3
	Forest before trees, or trees before forest? Temporal hierarchy of gist and object recognition in scenes	Natalia Rutkowska	4
	Generating veridical and informative experiences via prediction	Kirsten Rittershofer	5
	Informative cue on stimulus frequency affects criterion in somatosensory near-threshold detection	Carina Forster	6
	Investigating the appearance of perceptual richness: A systematic review	Sophonria Barone	7
	Looking at blindsight: a complete perceptual profile characterisation of heminaopic patients	Diane Derrien	8
	Pre-stimulus alpha-band power predicts both objective task accuracy and subjective perceptual awareness	Aleksander Zębrowski	9
	The forest, the trees, or both? Hierarchy and interactions between gist and object processing during perception of real-world scenes	Marcin Furtak	10
	Virtual Veridicalism, Cognitive Orientation, and Fregean Representationalism	Yen-Tung Lee	11
	Visual imagination and visual working memory performance in older and younger healthy adults	Christopher Atkin	12
	We are just friends – the complicated relationship between occipital cortex excitability, occipital cortex TMS and visual perception	Justyna Hobot	13
	Choice behavior is optimal at intermediate levels of pupil-linked arousal across various modalities and decision types	Lola Beerendonk	14
	Directed neural information sharing indexes awareness in human face perception	Renzo Lanfranco	15
	Why do some people seem more observant of changes in their environment? The role of mental imagery	Giulia Cabbai	16
	Loss-gain asymmetries in perceptual decisions	Matan Mazor	17
	Common and divergent cortical mechanisms of auditory prediction error across mammalian brains.	Andres Canales-Johnson	18
	Processing of threatening bodies under different levels of perceptual awareness	Marta Poyo Solanas	19
	One-shot perceptual learning from brief exposure to prior information	Adelina-Mihaela Halchin	20
	The Perception Census: An extremely large-scale online study of perceptual diversity	Anil Seth	21
	Cardio-audio and auditory regularity encoding during human wakefulness and sleep	Andria Pelentritou	22
	Time-varying functional whole-brain connectivity synchronizes between individuals during movie watching	Basak Turker	23
	Effect of individual differences in perceptual precision on central tendency effects	Reny Baykova	24
	Capturing the experience of (artificial) touch	Ceci Verbaarschot	25

Friday July 15th

Are phantom people analogous to phantom limbs?	Paul Corballis	26
Examining differential access of fear- and disgust-conditioned stimuli to visual awareness	Piotr Litwin	27
Divergent perception: linking creativity with perception of ambiguous visual stimuli	Antoine Bellemare	28
<i>Sleep and dreams</i>		
A relationship between lucid dreaming and metacognitive capacity	Mariana Pereira	29
Auditory adaptation dynamics across the sleep-wake cycle	Anat Arzi	30
Identifying the Neural Correlates of Dreaming with Intracranial Recordings	Csaba Kozma	31
Negative dream experiences predict waking emotional reactivity and emotion regulation	Enyu Lin	32
The phenomenological construction of lucid dreaming: a case study	Teresa Campillo Ferrer	33
Learning new vocabulary implicitly during sleep transfers with cross-modal generalization into wakefulness	Matthieu Koroma	34
Sleep Misperception in Insomnia is associated with Verbal Memory Erroring	Afik Faerman	35
Neurocognitive (dis)continuities between waking and dreaming states of consciousness	Valdas Noreika	36
<i>Altered states of consciousness</i>		
Altered states of consciousness: NLP and qualitative analysis of online reports	Conor Murray	37
Integration and neural propagation: empirical evidence for the usefulness of intrinsic ignitions	Glenn van der Lande	38
Measures of information processing reveal common and distinct features between propofol, ketamine and dexmedetomidine-induced sedation	Naji Alnagger	39
Mindfulness meditation state and traits modulate the brain gradient connectome in expert and novice meditators	Sébastien Czajko	40
Neural and phenomenological dynamics of psychedelic-like states through breathwork induced hypoxia	Evan Lewis-Healey	41
Syncope models the near-death-like experience	Charlotte Martial	42
A Specification of the Consciousness State-Space: Let's Split it!	Cyril Costines	43
Can psychedelics alter metaphysical beliefs?	Christopher Timmermann	44
Cross-study comparison of resting-state fMRI altered states of consciousness datasets: Establishing relationships between connectivity changes and phenomenology	Timo Torsten Schmidt	45
Psychedelics and schizophrenia: Distinct alterations to Bayesian inference	Hardik Rajpal	46
Effects of psilocybin on neurophysiological and phenomenal correlates of interoception	Marieke Weijs	47
Neurochemical profiling of psychedelic states of consciousness	Pablo-Alexandre Mallaroni	48
Quantitative phenomenology of serotonergic and anticholinergic hallucinogens: Evidence for multiple pathways to hallucinatory consciousness	George Fejer	49
Neural markers of cognitive control in high arousal	Chiara Avancini	50
The role of subjective experience in psychedelic therapy: Psychedelic-inspired VR-augmented therapy for treatment of mild-to-moderate depression	Karl Kristjan Kaup	51

Friday July 15th

Subjective and EEG effects of the extended DMT experience	Lisa Luan	52
Consciousness and Blended Reality: The Alice Dali Augmented Reality Experience	Svetlana Rudenko	53
A Specification of the Consciousness State-Space: Let's Split it!	Cyril Costines	54
<i>States/levels of consciousness</i>		
Ketamine and sleep modulate neural complexity dynamics in cats	Claudia Pascovich	55
Sleep-related brain functional reorganization varies by task engagement	Samika Kumar	56
Brain complexity increases as conscious level decreases in order to maintain task performance	Laura Stolp	57
Characterising the behavioural and neural signatures of switching between internally and externally directed processes.	Sara Calzolari	58
<i>Consciousness in the clinic</i>		
Altered awareness in patients with Korsakoff syndrome living in long-term care facilities; a network analyses	Anouk van Loon	59
Assessing consciousness in people with advanced Alzheimer's disease in care homes using Bispectral index monitoring - a feasibility and pilot study	Jonathan Huntley	60
Conscious perception and the role of the basal ganglia: preliminary findings from a deep brain stimulation study	Evert Boonstra	61
Phenomenological experience and clinical benefits of hypnosis and cognitive trance	Nolwenn Marie	62
Functional near-infrared spectroscopy as a tool to assess residual and covert consciousness in the intensive care unit	Karnig Kazazian	63
Neural Synchrony and Complexity to Index Consciousness and Coma Patient Outcome	Sigurd Alnes	64
Development of an automated pipeline for the analysis of [18F]FDG-PET images in disorders of consciousness	Arianna	65
Revisiting the domain of suggestion: A meta-analysis of suggestibility across different contexts	Madeline V. Stein	66
Capturing Real World Driving Behaviour and Neural markers of reduced Conscious Awareness in Sleep Apnoea Patients	Kieran Lee	67

Friday July 15th

15:30-17:30

Concurrent talks 9 – Neural correlates of consciousness 2

C1.03

Graded conscious perception during the attentional blink	Anna Eiserbeck	9:00
Investigating the relationship between evidence accumulation and perceptual experience using sEEG	François Stockart	9:15
Sequential sampling models for confidence in perceptual decision-making	Sebastian Hellmann	9:30
Implicit inference of 'what's next' in a dynamic world	Martijn E. Wokke	9:45
The role of structuralism in NCC research	Lukas Kob	10:00
Bidirectionally connected cores of the human functional connectome	Tomoya Taguchi	10:15
Hemispheric decoupling of awareness-related activity in human auditory cortex under informational masking and divided attention	Andrew Dykstra	10:30
Influence of signal strength on conscious and nonconscious neural processing of emotional faces	Insa Schlossmacher	10:45

15:30-17:30

Concurrent talks 10 – Perceptual consciousness 2

C1.04

Useful Misrepresentation: Perception as Embodied Proactive Inference	Joshua M Martin	9:00
Position representations of moving objects align with real-time position in early visual cortex	Philippa Johnson	9:15
Expectations boost the reconstruction of auditory features from electrophysiological responses to noisy speech	Thomas Andriillon	9:30
Gaze stability does not fully explain perceptual filling-in	Max Levinson	9:45
The capacity of iconic memory: how high is ultra-high?	Karla Matić	10:00
Young children's subjective and objective thresholds and emergent process of visual consciousness using a backward masking task	Ryoichi Watanabe	10:15
Phenomenological control in 'top-down' and 'bottom up' effects.	Peter Lush	10:30
A nasal visual field advantage in interocular competition	Andre Sahakian	10:45

Friday July 15th

15:30-17:30	Concurrent talks 11 – (Altered) states of consciousness	A1.02
What is it like to become aware that you are dreaming? Examining accounts of meta-awareness in lucid dreams	Ema Demšar	9:00
Nightmare frequency is associated with connectivity between the amygdala and prefrontal cortex	Mariana Pereira	9:15
Alert even in full unconsciousness! The Brain Selectively Tunes to Unfamiliar Voices during Deep Sleep	Manuel Schabus	9:30
Signs of consciousness in fetal magnetoencephalography	Joel Frohlich	9:45
Beyond informational complexity – reduced conscious level associated with increased redundancy and reduced synergy.	Daniel Bor	10:00
Auditory processing across different levels of arousal and consciousness	Amit Marmelshtein	10:15
Is microdosing with psychedelics more than a placebo-effect?	Michiel van Elk	10:30
A brain pattern of high integration and low segregation is recurrently observed after psilocybin administration	Sepher Morteheb	10:45

15:30-17:30	Concurrent talks 12 – Confidence and metacognition	C0.02
Optimal metacognitive decision strategies in signal detection theory	Lucie Charles	9:00
Intrinsic decision biases are under cognitive control	Clémence Compain	9:15
Differential effect of prior information on discrimination decisions and subjective confidence	Marika Constant	9:30
Effects of perceived numerosity on confidence	Nora Bradford	9:45
Is there a g factor for sensory metacognition? A large sample investigation of metacognition across sensory modalities	Katarzyna Hat	10:00
Evidence of tuned inhibition as the underlying mechanism of perceptual metacognition via fMRI	Shaida Abachi	10:15
The immediate effects of accuracy feedback on metacognitive processing	Marta Siedlecka	10:30
Confidence is detection-like in high dimensional spaces	Stephen Fleming	10:45

17:30 – 18:00	William James Prize	A0.01
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18:00 – 18:30

Closing ceremony

A0.01

21:00 – 3:00

Conference party

Brazilian Roots
