Helmholtz Instituut

Utrecht University

Perception Day 2026

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Program overview

8:15	**Coffee & Registration**	Ruppert Hall
9:10	Welcome to Perception Day!	Ruppert Blauw/ Ruppert Paars
9:15	**Talk session 1A:** Arts & Aesthetics	Ruppert Blauw
9:15	**Talk session 1B:** (sub-)Clinical	Ruppert Paars
10:45	**Coffee break & Posters**	Ruppert Hall/ Ruppert B
11:45	**Talk session 2A:** Attention, Arousal & the Pupil	Ruppert Blauw
11:45	**Talk session 2B:** Space & Magnitude	Ruppert Paars
13:15	**Lunch**	Ruppert Hall
14:00	**Talk session 3A:** Prediction & Timing	Ruppert Blauw
14:00	**Talk session 3B:** Confidence & Metacognition	Ruppert Paars
15:30	**Coffee break & posters**	Ruppert Hall/ Ruppert B
16:30	**Helmholtz lecture Roland Fleming** "Visual Perception – past, present and future"	Ruppert Blauw
17:30	**Closing & drinks**	Ruppert Hall

Talks

Talk session 1A – Arts & Aesthetics
Chair: Sjoerd Stuit
09:15 – 10:45, Room Ruppert Blauw

9:15	Aesthetic Importance Guides Visual Exploration Across Art Styles and Viewing Goals	Maarten Leemans, KU Leuven
9:30	Looking Isn't Understanding: An Information-Theoretic Dissociation of Gaze and Semantic Ambiguity in Art	R Ravi Rao, Leiden University
9:45	Do individual differences in visual perceptual sensitivity generalize across features, tasks, and contexts?	Eline Van Geert, KU Leuven
10:00	Visual attention, aesthetic perception, sensory sensitivity and art expertise: A wearable eye-tracking study in an art gallery	Gijs Holleman, Tilburg University
10:15	The effect of re-lighting on the perception of materials in cultural heritage	Luan van Giezen, Delft University of Technology
10:30	Audiovisual emotional congruency modulates gaze dispersion and aesthetic evaluation of paintings	Funda Yilmaz, Donders Institute, Radboud University

Talk session 1B – (sub-)Clinical
Chair: Anika van der Klis
09:15 – 10:45, Room Ruppert Paars

9:15	Individual differences in sensory processing sensitivity and their relation to digital health communication	Tessa Van Leeuwen, Tilburg University
9:30	Peripheral Refractive Errors Are Associated With Reduced Peripheral Contrast Sensitivity in Pseudophakic Eyes	Dilce Tanriverdi, University Medical Center Groningen
9:45	ERP correlates of spared categorical visual attentional guidance but compromised memory search in cognitive ageing.	Gaspar Pérez-Ayora, Donders Insitute, Radboud University
10:00	Strategic blink timing supports the perception of task-relevant visual information and varies with age- and disease-related cognitive decline	Isabell Pitigoi, Queen's University, Canada
10:15	(Pseudo)neglect is associated with conservative decision rules on the weaker hemifield	Tessie Hamers, Utrecht University
10:30	Can adaptation to homonymous visual field defects be measured with SONDA eye movement perimetry?	Minke de Boer, University Medical Center Groningen

Talk session 2A – Attention, Arousal & the Pupil
Chair: Samson Chota
11:45 – 13:15, Room Ruppert Blauw

11:45	Attending to things you can't see	Ana Vilotijević, Utrecht University
12:00	Pupil Constriction Causes Activity in the Human Retina and Visual System	Sebastiaan Mathôt, University of Groningen
12:15	Larger pupils are linked to enhanced visual, but not auditory, detection.	Veera Ruuskanen, University of Groningen
12:30	The Effects of Interruptions on Stimulus-Driven Attention	Camilla Enwereuzor, Vrije Universiteit Amsterdam
12:45	Affective salience modulates learned suppression: Evidence for residual attentional priority at fear-associated locations	Junjie Huang, Leiden University
13:00	Affect in the Latent Space: Identifying Affect-Related Directions in the Latent Space of Unsupervised Variational Autoencoders	Fatih Deniz, Eindhoven University of Technology

Talk session 2B – Space & Magnitude
Chair: Krista Overvliet
11:45 – 13:15, Room Ruppert Paars

11:45	Visual Attention doesn't Travel, it Teleports	Kabir Arora, Utrecht University
12:00	Peripheral Ear-Specific Selective Speech Adaptation is Not a Location-Contingency Effect	Isar Syed, Tilburg University
12:15	The unique representation of zero in the human brain	Tianxin Shu, NIN Amsterdam
12:30	Functionality versus modality: finding the fundamental organizational principle of working memory storage	Yichen Yuan, Utrecht University
12:45	A third dimension of the V1 orientation manifold makes cardinality explicit	Radovan Vodila, Donders Institute, Radboud University
13:00	The size-weight illusion without deception	Jeroen Smeets, Vrije Universiteit Amsterdam

Talk session 3A – Prediction & Timing
Chair: Heleen Slagter
14:00 – 15:30, Room Ruppert Blauw

14:00	No evidence for proactive suppression of probable distractors: a RIFT-EEG study	Dan Wang, Utrecht University
14:15	Using Dynamic Neural fields in Human-Robot Joint Action	Raymond Cuijpers, Eindhoven University of Technology
14:30	Early visual cortex rapidly anticipates high-level information during naturalistic free viewing	Songyun Bai, Donders Institute, Radboud University
14:45	Foveal remapping of task-relevant features for peripheral stimuli	Eva Berlot, Donders Institute, Radboud University
15:00	Briefer than brief - Uncovering the true temporal resolution of the visual system	Joost de Jong, University of Groningen
15:15	Predicting What, Predicting When: A Layer-Resolved Study of Cortical Inference in Human Auditory Cortex	Ryszard Auksztulewicz, Maastricht University

Talk session 3B – Confidence & Metacognition
Chair: Joris Vincent
14:00 – 15:30, Room Ruppert Paars

14:00	Distinct Neural Codes of Past and Present Goals in Prefrontal Cortex	Damian Koevoet, Donders Institute, Radboud University
14:15	Dynamic regulation between internal storing and external sampling reflects costs tradeoffs	Tianying Qing, Utrecht University
14:30	Humans learn to distinguish imagination from reality with age	Andre Sahakian, Utrecht University
14:45	Faces in Focus - Decoding Emotion and Gender in Visual Processing	Lukas Kunz, Leiden University
15:00	Confidence emerges late in the cognitive-process sequence and is not domain-general	Rick den Otter, Utrecht University
15:15	Metacognition in Ensemble and Single-Object Perception	Yining Chen, BCBL, San Sebastián

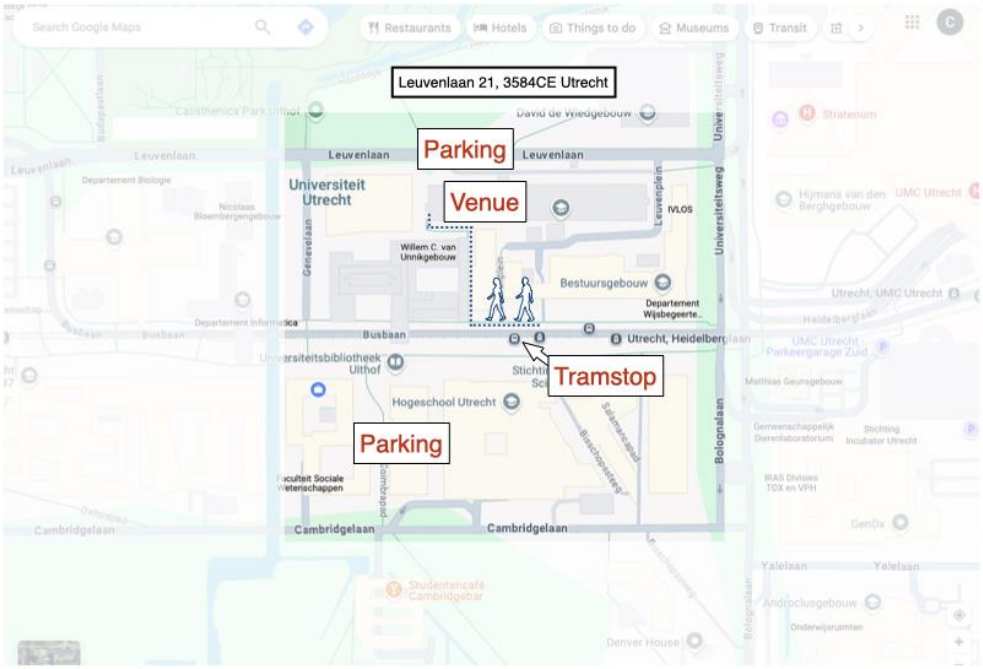
Posters

Poster nr	Presenter	Title	Affiliation
P1	Marleen Abbestee	The costs of resizing the attentional field	Utrecht University
P2	Dominique Blokland	Usage of auditory and haptic landmarks as directional cues by blind individuals in a route memory task	Utrecht University
P3	Floortje Bouwkamp	Does uncertainty reduction drive naturalistic, unconstrained visual sampling? A CityLab study	Donders Institute, Radboud University
P4	Eli Brenner	Intercepting accelerating targets with the help of sound	VU Amsterdam
P5	Evan Canny	Sensory Sensitivity and ERP Markers of Auditory Selective Attention in Neurotypical Adults	Utrecht University
P6	Olympia Colizoli	Simulating Synesthesia: A Computational Approach to Investigating the Effects of Grapheme-Color Representations on Visual Working Memory	Donders Institute, Radboud University
P7	Esra De Ruiter	From auditory perception to motor output: a novel approach to probing subcortical motor pathways	Radboudumc, Nijmegen
P8	Beleke de Zwart	Fixed across traits and states? The stability of the exogenous attentional spotlight across autism, ageing, and cue size.	Utrecht University
P9	Lasse Dietz	Temporal expectations facilitate perceptual performance by driving early visual processing	Utrecht University
P10	Martina Dossi	A Co-Design Approach to Visual Analytics for VR-Based Visual Rehabilitation	Utrecht University
P11	Jesse Feddema	The added value of a Virtual Reality restaurant simulation in the cognitive assessment of acquired brain injury	Utrecht University
P12	Zakaria Gefferie	Saccade Selection Predictably Changes With Load	Utrecht University
P13	Alicia Gonsalves	Extending Physiologically Informed Dynamic Causal Modelling with Interlaminar Connectivity for Laminar fMRI	Maastricht University

P14	Ana-Maria Gore	Resolving Corticothalamic Circuits in Human Auditory Selective Attention with 7T fMRI and Laminar iEEG	Maastricht University
P15	Gaia Mariavittoria Gragnolati	Interruptions and the Time Course of Goal Perseveration in Visual Search	VU Amsterdam
P16	Zirui Gu	Presaccadic information changes the dynamics of salience, relevance, and eccentricity	VU Amsterdam
P17	Jade Guénot	Exploring eye-hand coordination in central field loss with virtual reality	UMC Groningen
P18	Ben Harvey	Representational Tuning Models: Parametric Encoding Within Arbitrary Stimulus Domains	Utrecht University
P19	Meike Heldoorn	To fill or not to fill? That's the question for pixelated tactile images of different sizes	Eindhoven University of Technology
P20	Doreen Hii	"I / Eye" Like That! Explaining Individual Aesthetic Judgments Using Eye Movement Data	KU Leuven
P21	Felix Hofer	Tracking binocular rivalry without report: Toward neural decoding of the full perceptual stream	VU Amsterdam
P22	Alex Hoogerbrugge	Cost, then reward: saccade selection is a temporally integrated economic decision	Utrecht University
P23	Yayla Ilksoy	Object-Centered Spatial Learning in Dynamic Contexts: History-Driven Distractor Suppression and Target Enhancement	VU Amsterdam
P24	Suzanna Janssens	Binocular Saccadic Benefit Declines with Interocular Reliability Imbalance	Erasmus MC Rotterdam
P25	Kyle Sinan Taylan Kahraman	From perception to mental rotation: tracing spatial codes with MEG	Maastricht University
P26	Sanam Kazemi	Representation of Movement Direction and Eye-Movement Type Across the Visual Cortex and Cerebellum	Spinoza Centre for Neuroimaging Amsterdam
P27	Rozemun Khan	From 3D Ability to 2D Neural Profiles: Individual and Task-Driven Oscillatory Dynamics in Mental Rotation	Utrecht University

P28	Lisa Koßmannn	Revealing Mid-Level Factors in Rich Images: A Framework and Dataset for Perceptual Grouping and Composition	KU Leuven
P29	Areti Kotsolakou	Eyes on the Input: Combining Pupillometry and the Head-turn Preference Paradigm in Infant Pattern Detection	Utrecht University
P30	Yongxing Lu	Do the Math: A Behavioral Study of Human Arithmetic	Spinoza Centre for Neuroimaging Amsterdam
P31	Marloes Mak	Individual Differences in Perceptual Experiences: Exploring Associations between Imagery Vividness, Sensory (Processing) Sensitivity, Synaesthesia, and (Subclinical) Psychiatric Traits	Tilburg University
P32	Marnix Naber	The fusion illusion: explaining apparent standstills of overlapping transparent objects	Utrecht University
P33	Spencer Matei Olson	Quantifying Auditory Engagement to Naturalistic Stimuli During Auditory Attention	Maastricht University
P34	Leonie Oostwoud Wijdenes	Planning horizon of sequential reaching movements depends on target configuration	Radboud University
P35	Taku Otsuka	Neural traces of past stimulus reliability emerge during ongoing perception	University of Groningen
P36	W. Pan	From categorization to quantification: Stage-dependent neural and behavioral mechanisms of facial emotion recognition	Leiden University
P37	Myrthe Plaisier	Conveying visual shape and color with a single vibrotactile pattern	Eindhoven University of Technology
P38	Claire Pleche	Expected visual locations bias observers' perceived sound locations	Donders Institute, Radboud University
P39	Korosh Rajaei	Neural Representations of Body Awareness and Imagery in Depersonalization	VU Amsterdam
P40	Wieger Scheurer	Implicit spatiotemporal prediction in cortex and behaviour defaults to linear paths over physics intuition	Donders Institute, Radboud University
P41	Siem Scholman	Tracing Sensory Processing Across Cognitive Stages	Utrecht University

P42	Henning Schulte	Improving SONDA visual field reconstruction using Threshold-Free Cluster Enhancement	UMC Groningen
P43	Kaj Stolle	Spatial Learning During Walking with Vibrotactile Feedback	Eindhoven University of Technology
P44	Rutger Stuut	From training to practice: Effects of an eye movement modelling intervention on nautical operators' CCTV viewing behaviour	Rijkswaterstaat
P45	Yike Tang	Effector similarity warps visual feature space in working memory	VU Amsterdam
P46	Caterina Trentin	An eye for action: Do object affordances shape how we represent others' attention?	VU Amsterdam
P47	Anna Umurzakova	Colours of Consciousness: Using synesthetic training to identify the neural computations behind subjective experience	Donders Institute, Radboud University
P48	Joey van der Bie	Is Spatial Language Grounded in Perception? Language Usage In Persons With A Visual Impairment through Verbal Fluency Tasks	Utrecht University
P49	Maarten van der Smagt	Low-level influences on numerosity adaptation	Utrecht University
P50	Julian van Grondel	Benchmarking pupil perimetry in young children: finding visual field anisotropies	UMC Utrecht
P51	Jasmin Van Vliet	Physiologically and subjectively inferred costs are minimized during saccade selection	Utrecht University
P52	Huib Versnel	Linguistic and non-linguistic hearing performance with a cochlear implant and the role of residual cochlear function	UMC Utrecht
P53	Maarten Wijntjes	Distinguishing Rembrandt from his students: evidence for tacit perceptual learning in a connoisseur-level task	TU Delft
P54	Mengshi Yang	Pseudo-haptic perception across three movement conditions	TU Delft
P55	Jiayi Yao	Age-related Preservation of Statistical Learning in Distractor Suppression	VU Amsterdam
P56	Liangyou Zhang	Attention alters numerosity tuned responses in the human brain	Utrecht University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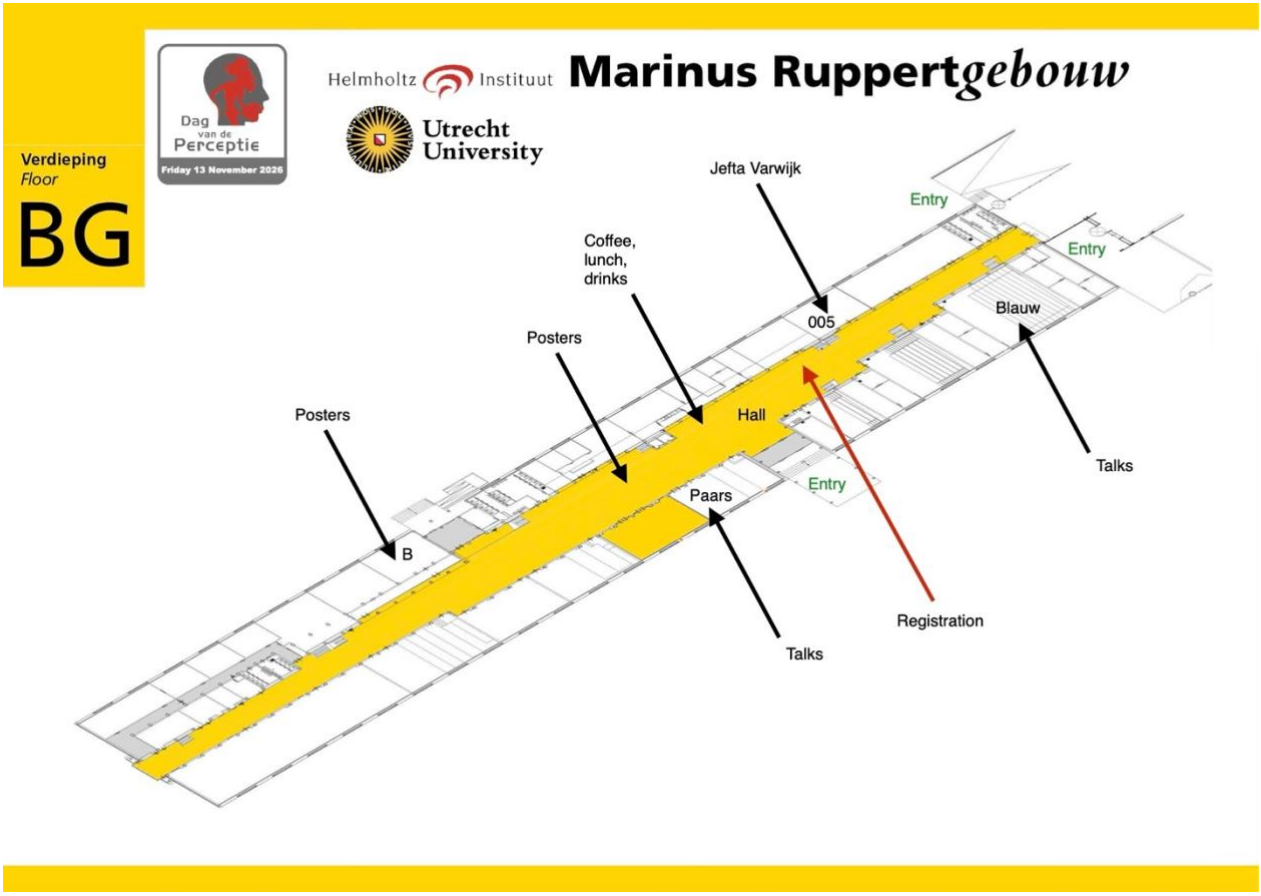
Verdieping
Floor
BG
Dag van de Perceptie
Friday 13 November 2026
Helmholtz Instituut
Utrecht University
Marinus Ruppertgebouw
Jefta Varwijk
Entry
Entry
Coffee, lunch, drinks
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Blauw
Posters
Posters
Hall
Talks
Entry
Paars
B
Registration
Talks