

Perception Day 2024

Organizers

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Program overview

| | | |
|-------|---|------------------------------|
| 8:15 | Coffee & Registration | Ruppert Hall |
| 9:10 | Welcome to Perception Day! | Ruppert 040/ Ruppert 042 |
| 9:15 | Talk session 1A: Attention & decision making <i>Chair: Leendert van Maanen</i> | Ruppert 040 |
| 9:15 | Talk session 1B: Clinical groups <i>Chair: Renee Lustenhouwer</i> | Ruppert 042 |
| 10:45 | Coffee break & Posters | Ruppert Hall/ Ruppert 005 |
| 11:30 | Talk session 2A: Emotion, face perception & working memory <i>Chair: Samson Chota</i> | Ruppert 040 |
| 11:30 | Talk session 2B: Eye movements and pupillometry <i>Chair: Freek van Ede</i> | Ruppert 042 |
| 13:00 | Lunch | Ruppert Hall |
| 13:45 | Talk session 3A: Non-visual perception <i>Chair: Ben Harvey</i> | Ruppert 040 |
| 13:45 | Talk session 3B: Visual perception <i>Chair: Chris Klink</i> | Ruppert 042 |
| 15:15 | Coffee break & posters | Ruppert Hall/ Ruppert 005 |
| 16:00 | Helmholtz lecture Anil Seth “Consciousness in humans and in other things” | Ruppert Blauw |
| 17:00 | Drinks | Ruppert Hall |

Talks

Talk session 1A – Attention & decision making

Chair: Leendert van Maanen

09:15 – 10:45, Room Ruppert 040

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| 9:15 | Perceptual Decision Making Components And Times In The Human Brain | Gabriel Weindel, Utrecht University |
| 9:30 | Investigating The Applicability Of A Cueing Paradigm To Study Individual Differences In The Spotlight Of Attention | Beleke de Zwart, Utrecht University |
| 9:45 | Concurrent Multi-Target Search Is Possible, But Sequential Search Is Preferred | Alex Hoogerbrugge, Utrecht University |
| 10:00 | Overt And Covert Attention Are Qualitatively Similar But Quantitatively Distinct | Damian Koevoet, Utrecht University |
| 10:15 | Learning Alters Saliency | Dock Duncan, VU Amsterdam |
| 10:30 | A Behavioural Marker To Dissociate Subjective Experience From Perceptual Decisions In A Detection Experiment | N Sánchez-Fuenzalida, VU Amsterdam |

Talk session 1B – Clinical groups

Chair: Renee Lustenhouwer

09:15 – 10:45, Room Ruppert 042

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| 9:15 | Relying On The External World: Inspection Behavior Reveals Offloading Strategies In Visual Working Memory After Brain Injury | Sanne Böing, Utrecht University |
| 9:30 | A Non-Verbal Gaze-Based Assessment Of Cerebral Visual Impairments In Young Children | Marinke Hokken, Erasmus MC |
| 9:45 | Statistically But Not Clinically Significant Cortical Thinning In Age-Related Macular Degeneration | Lara Mentink, Tilburg University |
| 10:00 | Task-Specific Strategies In Visual Working Memory Use | Andre Sahakian, Utrecht University |
| 10:15 | Looking From Different Angles: Alternative Perimetry Methods Complement Each Other | Henning Schulte, UMC Groningen |
| 10:30 | The Effects Of Central And Peripheral Vision Loss On A Naturalistic Search Task: Shopping In Virtual Reality | K Veerkamp, VU Amsterdam |

Talk session 2A – Emotion, face perception & working memory

Chair: Samson Chota

11:30 – 13:00, Room Ruppert 040

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| 11:30 | Dissociating Internal And External Attentional Selection | Kabir Arora, Utrecht University |
| 11:45 | Peripheral Visual Working Memory During Maintenance And Selection | Güven Kandemir, VU Amsterdam |
| 12:00 | Music And Emotional State Influence Visual Processing Speed | David Melcher, New York University Abu Dhabi |
| 12:15 | The Nose Knows: Capturing Facial Attractiveness With Functional Infrared Thermal Imaging | Erik Van der Burg, VU Amsterdam |
| 12:30 | Looking Into Working Memory To Verify Potential Targets During Search | Sisi Wang, VU Amsterdam |
| 12:45 | Statistical Learning Of Task Relevance, Rather Than Stimulus Prevalence, Improves Visual Working Memory Recall | Luzi Xu, Utrecht University |

Talk session 2B – Eye movements and pupillometry

Chair: Freek van Ede

11:30 – 13:00, Room Ruppert 042

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| 11:30 | Uncovering Covert Attention In Complex Environments With Pupillometry | Yuqing Cai, Utrecht University |
| 11:45 | Does (A Lack Of) Visual Attention During Face-To-Face Conversations Influence People's Perceptions Of Feeling Heard? | Gijs Holleman, Tilburg University |
| 12:00 | Spontaneous Fluctuations In Pupil Size Shape Retinal Responses To Visual Stimuli | Sebastiaan Mathôt, University of Groningen (RUG) |
| 12:15 | Ganzfeld-Induced Perceptual Deprivation And Its Effect On Consciousness: The Interplay Between Abstract Cognition And Perceptually Grounded Thoughts | Eleftheria Pistolas, KU Leuven |
| 12:30 | The Effect Of Pupil Size On Near-Threshold Detection Is Not Modulated By Colour, Eccentricity, Or Adaptation-State | Veera Ruuskanen, University of Groningen (RUG) |
| 12:45 | The Effect Of Covert Visual Attention On Pupil Size During Perceptual Fading | Ana Vilotijevic, University of Groningen (RUG) |

Talk session 3A – Non-visual perception

Chair: Ben Harvey

13:45 – 15:15, Room Ruppert 040

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| 13:45 | Soft Robotics For Haptic Interactions | Irene Kuling, Eindhoven University of Technology (TU/e) |
| 14:00 | Learning And Retention Of Vibrotactile Morse Code | Myrthe Plaisier, Eindhoven University of Technology (TU/e) |
| 14:15 | Prior Knowledge And Context Biases Visual Memory For Body Postures | Han Qiu, Donders Institute, Radboud University |
| 14:30 | Social Chemistry Science With Industry: A Decade Long Journey For Impact | Monique Smeets, Utrecht University |
| 14:45 | Decoding Auditory Working Memory Load From EEG Alpha Oscillations | Yichen Yuan, Utrecht University |
| 15:00 | Urban Air Mobility noise assessment and public acceptability | Naomi Sieben & Roalt Aalmoes, NLR |

Talk session 3B – Visual perception

Chair: Chris Klink

13:45 – 15:15, Room Ruppert 042

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| 13:45 | Groundwork For Applying Rapid Invisible Frequency Tagging (Rift) To Study Neural And Cognitive Processing In Naturalistic Vision | Songyun Bai, Donders Institute, Radboud University |
| 14:00 | Population Receptive Field Size Across Cortical Depth Along The Visual Hierarchy | Mayra Bittencourt, UMC Groningen, Spinoza Centre for Neuroimaging |
| 14:15 | A Continuous Psychophysics Approach To Measuring The Spatio-Temporal Characteristics Of Visual Crowding | Dilce Tanriverdi, UMC Groningen |
| 14:30 | Multistable Grouping Beyond The Dot Lattice: Individual And Contextual Differences In Interactions Of Global Orientation And Local Shape | Elisabeth van der Hulst, KU Leuven |
| 14:45 | Using Gibbs Sampling With People To Characterize Perceptual And Aesthetic Evaluations In Multidimensional Visual Stimulus Space | Eline Van Geert, KU Leuven |
| 15:00 | Mapping The Importance Of Image Region Pleasure And Interest For The Perception And Appreciation Of Art Photographs And Paintings | Maarten Leemans, KU Leuven |

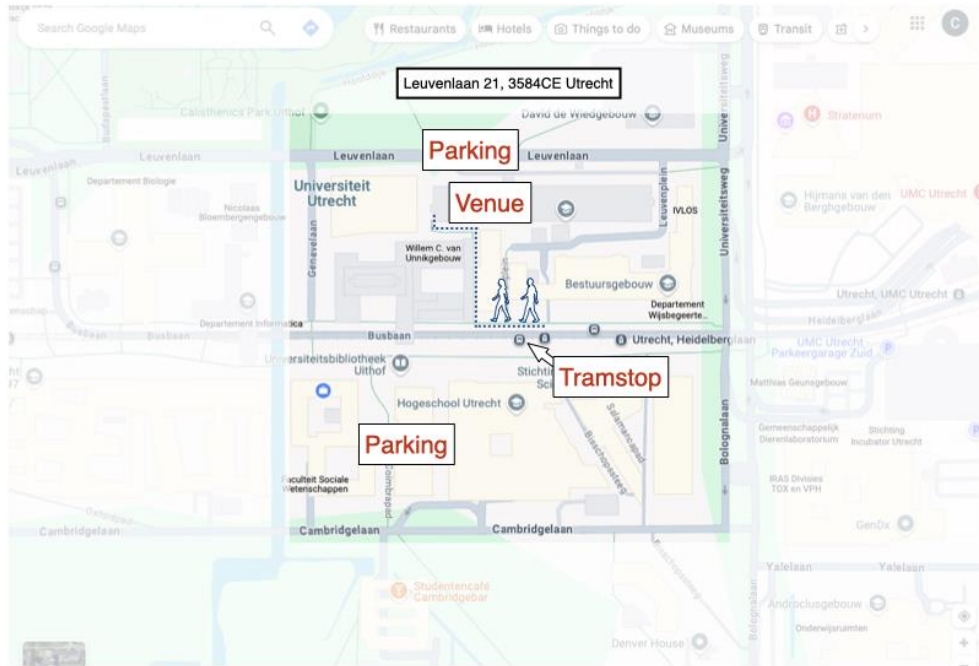
Posters

| Poster nr | Presenter | Title | Affiliation |
|-----------|-------------------------|---|---|
| P1 | Fatemeh Behrad | Against All Odds: Randomness Outperforms Human-Inspired Methods In Identifying Aesthetically Important Areas. | KU Leuven |
| P2 | Ilona Bloem | Examining The Precision Of Spatial Representations Within Visual Cortex | Netherlands Institute for Neuroscience |
| P3 | Dominique Blokland | Individual Differences In Personal Wayfinding Preferences In People With Visual Impairments | Utrecht University |
| P4 | Floortje Bouwkamp | Can We Use Ignored Spatial Predictive Context During Visual Search? | Donders Institute, Radboud University |
| P5 | Caterina Trentin | Exogenous Covert Attention Modulates Foveal Processing Through Predictive Remapping | VU Amsterdam |
| P6 | Katerina Christodouloux | The Role Of Mental Imagery And Sensory Sensitivity In Resolving Perceptual Ambiguity | Tilburg University |
| P7 | Rick den Otter | Uncovering Cognitive Processes In Perceptual Decision-Making: Machine Learning Applied To The Speed-Accuracy Trade-Off In EEG Data | Utrecht University |
| P8 | Fatih Deniz | Connecting Environmental Perception And Affect: Which Perceptual Visual Features Predict Affective Responses To Everyday Indoor Environments? | Eindhoven University of Technology (TU/e) |
| P9 | Lasse Dietz | Investigating The Dynamic Interplay Between Visual Working Memory And Perception | Utrecht University |
| P10 | Garnt Dijksterhuis | Oral Numerosity Estimation | Maastricht University, Utrecht University |
| P11 | Elif Gecer | Hidden Impacts Of Light: Exploring Non-Image-Forming Responses Through Eeg And Metameric Stimuli | Eindhoven University of Technology (TU/e) |
| P12 | Eva Postuma | Road-User Detection And Adaptive Scanning In Cyclists With Hemianopia: Insights From A Virtual Reality Study | University of Groningen (RUG) |

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| P13 | Meike Heldoorn | Investigating Recognition Of Pixelated Tactile Line Drawings | Eindhoven University of Technology (TU/e) |
| P14 | Yayla Ilksoy | Learning To Suppress Distractors In Randomized Spatial Configurations | VU Amsterdam |
| P15 | Robert Jertberg | Age, Not Autism, Influences Multisensory Integration Of Speech Stimuli Among Adults | VU Amsterdam |
| P16 | Maëlle Lerebourg | Blinded By The Mind's Eye? Investigating Competitive Interactions Between Imagery And Perception | Donders Institute, Radboud University |
| P17 | Marloes Mak | Associations Between Imagery Vividness, Sensory Sensitivity, And Divergent Perceptual Experiences | Tilburg University |
| P18 | Jonathan Adams | Amodal Shape Completion In Humans And Generative Neural Networks | Erasmus University Rotterdam |
| P19 | Ombretta Strafforello | Backflip: The Impact Of Local And Global Data Augmentations On Artistic Image Aesthetic Assessment | KU Leuven |
| P20 | Taku Otsuka | Distributional Variability Influences Variability Of Mean Estimates | University of Groningen (RUG) |
| P21 | Claire Pleche | An Expected Visual Location Biases Observers' Perceived Sound Location | Donders Institute, Radboud University |
| P22 | Tianying Qing | Shifting Reliance Between The Internal And External World: A Meta-Analysis On Visual-Working Memory Use | Utrecht University |
| P23 | Andrew Reid | Pupil And EEG Correlates Of Decision Making And Memory In A Naturalistic Driving Task | Tilburg University |
| P24 | Siem Scholman | The Discovery And Interpretation Of Hidden Stages In Decision Making | Utrecht University |
| P25 | Surya Selvam | Control Over Conscious Perception Through Meditation? | VU Amsterdam |
| P26 | Margot Steijger | Exploring The Relationship Between Human Arousal And | University of Amsterdam |

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| | | Feedforward Vs. Recurrent Processing | |
| P27 | Arne Stein | A High-Speed Oled Monitor For Precise Stimulation In Visual Perception, Eye-Tracking, And Eeg Research | University of Groningen (RUG) |
| P28 | Kaj Stolle | Comparing Vibrotactile Feedback Modes For Navigation – An Extensive Pilot Study | Eindhoven University of Technology (TU/e) |
| P29 | Daniel van der Meer | Cascading Transitions In Multistable Perception | University of Amsterdam |
| P30 | Youp van Oosterhout | Percept Duration Of Light Flashes Induced With Microstimulation In Primary Visual Cortex As A Function Of Visual Adapdatation And Auditory Integration In Blind Subjects | Donders Institute, Radboud University |
| P31 | Dan Wang | Prioritized And Non-Prioritized Features Maintained In Visual Working Memory Differentially Influence Early Visual Processing | Utrecht University |
| P32 | Ningkai Wang | The Role Of Expectations In Visual Spatial Coding Across The Visual Hierarchy | VU Amsterdam, Spinoza Centre |
| P33 | Yaniv Morgenstern | Automated Generation Of Perceptually-Uniform Circular Spaces For Novel Naturalistic Shapes | Erasmus University Rotterdam |
| P34 | Liangyou Zhang | Attention Shifts The Numerosity Preferences Of Tuned Neuron Populations | Utrecht University |
| P35 | Gu Zirui | Distinguishing A Central Selection Bias From A Central Fixation Bias: The Role Of Retinal Eccentricity In Selection Control | VU Amsterdam |
| P36 | Samson Chota | Gaze Biases Can Reflect Task-Specific Spatial Memorization Strategies | Utrecht University |
| P37 | Ben Harvey | Transitions From Monotonic To Tuned Responses In Recurrent Neural Network Models During Timing Prediction | Utrecht University |
| P38 | Krista Overvliet | Translating Colours To Materials: A Study On Cross-Modal | Utrecht University |

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| | | Correspondences Between Vision And Touch | |
| P39 | Sjoerd Stuit | Attentional And Perceptual Guidance In Visual Search: The When And What Of Emotional Superiority | Utrecht University |
| P40 | Anna Bøthun | Optimizing Eye Movement Perimetry For The Pediatric Population | University of Copenhagen |



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Floor
BG



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Marinus Ruppertgebouw

