



TUESDAY 27TH AUGUST

Tuesday 27th August

Poster Session 3 [odd numbers] 09.00–10.30 (Hall B)

- 1 **Searching for color with color-enhancing filters**
Camilla Simoncelli¹, Don McPherson², Kenneth Knoblauch³, Michael A. Webster¹
¹University of Nevada Reno (US), ²Chief Science Officer EnChroma (US), ³Inserm U 1208, Stem-cell and Brain Research Institute (FR)
- 3 **Visual encoding of social interactions in body-selective human brain regions**
Paul Downing¹, Ilona Martynenko²
¹Bangor University (UK), ²Osnabrück University (DE)
- 5 **Saccade kinematics and post-saccadic oscillations in retinitis pigmentosa and age-related macular degeneration**
Jeroen Goossens¹, Leslie Guadron¹, Samuel Titchener², Carla Abbott³, Lauren Ayton³, John van Opstal¹, Matthew Petoe²
¹Donders Institute (NL), ²Bionics Institute (AU), ³University of Melbourne (AU)
- 7 **Visual feedback codes during amodal completion and visual imagery**
Yingying Huang¹, Yulia Lazarova¹, Angus Paton¹, Clement Abbatecola¹, Lucy Petro¹, Lars Muckli¹
¹University of Glasgow (UK)
- 9 **Ideal population orientation coding in macaque V1 explored with a self-attention DNN model**
Xin Wang¹, Cai-Xia Chen¹, Shi-Ming Tang¹, Cong Yu¹
¹Peking University (CN)
- 11 **Exploring new methods to re-construct artwork for vision research**
Johannes Zanker¹, Doğa Gülhan¹
¹RHUL (UK)
- 13 **Differential Event-Related and Oscillatory Components of EEG Response to Emotional Body Movement**
Catherine Reed¹, Chandlyr Denaro¹, Alison Harris¹
¹Claremont McKenna College (CA)
- 15 **Attention Distorts Space, Including Cross-Modal Illusions**
Su-Ling Yeh¹, Chen-Wei Huang¹
¹National Taiwan University (TW)
- 17 **Is visual exploration on smartphones comparable to that on computers?**
Thomas Le Bras¹, Benoit Allibe², Karine Doré-Mazars¹
¹Vision Action Cognition Laboratory (FR), ²AB Tasty (FR)
- 19 **The correspondence of prior audio-visual information influences rule-based category learning**
Alan O'Dowd¹, Rebecca J Hirst¹, Fiona N Newell^{1,2}
¹Trinity College Dublin (IE), ²NYU Abu Dhabi (AE)
- 21 **Predicting “Aha!” moments by facial expressions**
Koshi Akedo¹, Yasuhiro Hatori², Yoshiyuki Sato², Chia-huei Tseng², Satoshi Shioiri¹
¹Graduate School of Information Science, Tohoku University (JP), ²Research Institute of Electrical Communication, Tohoku University (JP)



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- 23 **Measuring time-dependent evidence accumulation based on confidence reports**
Sascha Meyen¹, Carina Schrenk¹, Madeleine Soukup¹, Volker H. Franz¹
¹University of Tübingen (DE)
- 25 **Surviving continuous flash suppression: A two-photon calcium imaging study in macaque V1**
Caixia Chen¹, Xin Wang¹, Danqing Jiang¹, Shenghui Zhang¹, Shiming Tang¹, Cong Yu¹
¹Peking University (CN)
- 27 **Comparing method of adjustment and continuous psychophysics for assessing the perceptual size-distance relationship**
Jong-jin Kim¹, Laurence Harris²
¹York University, Toronto (CA), ²Centre for Vision Research, York University, Toronto (CA)
- 29 **Separating out distractor suppression from attentional guidance using predictability of feature and location**
Hannah Grace Jaison¹, Meera Mary Sunny¹
¹Indian Institute of Technology, Gandhinagar (IN)
- 31 **Why does touch interfere differentially with multiple-object tracking performance?**
Mallory Terry¹, Lana M. Trick¹
¹University of Guelph (CA)
- 33 **Blink-initiated behavioral oscillation of detection performance at alpha rhythms**
Yuki Murai¹
¹National Institute of Information and Communications Technology (JP)
- 35 **Gravity as a cue to distance or speed in motion perception**
Fatma Kilic¹, Fulvio Domini², Roland W. Fleming¹
¹Justus-Liebig-Universität Giessen (DE), ²Brown University (US)
- 37 **Visually-guided natural human grasping with articulated hands**
Frieder Hartmann¹, Guido Maiello², Fabrizio Lepori², Constantin A. Rothkopf³, Roland W. Fleming¹
¹Justus Liebig University Giessen (DE), ²University of Southampton (UK), ³Technical University of Darmstadt (DE)
- 39 **Causality perception and sensory predictions are subject to different sources of uncertainty**
Lina Eicke-Kanani¹, Yunyan Duan¹, Thomas Wallis¹
¹Technical University Darmstadt (DE)
- 41 **Test-Retest Reliability for Multiple-Target Visual Search: Eye-Tracking and Performance Metrics**
Kayley Birch-Hurst¹, Jamie Cooper¹, Isabella Foot¹, Oli Muckleston¹, Kait Clark¹
¹University of the West of England (UK)
- 43 **Perceived height of trees standing on flat or sloped ground: a variation of horizontal-vertical illusion**
Atsuki Higashiyama¹
¹Ritsumeikan University (JP)
- 45 **The Long-Term Influence of Red, Blue, and Green on Eye-Hand Coordination training**
Zainab Alrubaye¹, Anıl Ufuk Batmaz², Banu Manav¹
¹Kadir Has University (TR), ²Concordia University (CA)
- 47 **Experience-dependent biases in face discrimination reveal associations between perceptual specialization and narrowing**
Marissa Hartston¹, Tal Lulav-Bash¹, Yael Goldstein-Marchoson¹, Galia Avidan², Bat Sheva Hadad¹
¹University of Haifa (IL), ²Ben Gurion University (IL)



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- 49 **Investigating the effect of hemispheric dominance on perceptual bias in 3D shape-from-shading: Evidence from left-handers**
Marjola Peça¹, Ayelet Sapir¹
¹Bangor University (UK)
- 51 **Categorizing Deterministic Errors and Stochastic Errors in Visual Search**
Aoqi Li¹, Johan Hulleman¹, Jeremy Wolfe²
¹University of Manchester (UK), ²Harvard Medical School (US)
- 53 **Optic flow parsing in Persistent Postural Perceptual Dizziness (PPPD) – a pilot study**
Joshua Haynes¹, Monty Silverdale¹, James Lilleker¹, Debbie Cane¹, Rosa Crunkhorn³, Alan Carson², Paul Warren¹
¹University of Manchester (UK), ²University of Edinburgh (UK), ³Guy's and St Thomas' NHS Foundation Trust (UK)
- 55 **Accuracy and precision of Apple's Truedepth camera and ARKit for affordable head and eye tracking**
Nicholas Logan¹, Kristen Lott¹, Zahra Hosseini¹, Nikolaus F. Troje¹
¹York University (CA)
- 57 **Feedback-based training improves the accuracy of stimulus memorability judgments**
Cambria Revsine¹, Wilma Bainbridge¹
¹University of Chicago (US)
- 59 **Pseudo-cost of acting biases perceptual decision making**
Kyoko Hine¹, Iori Hida¹, Shigeki Nakauchi¹
¹Toyohashi University of Technology (JP)
- 61 **The oblique effect in motion detection and identification - a neural and behavioural investigation**
Danai Papadaki¹, Ramakrishna Chakravarthi¹, Karin S. Pilz²
¹University of Aberdeen (UK), ²Cito Institute for Educational Measurement (NL)
- 63 **Interaction of hand posture and kinematics dimensions during retrieval of action tool knowledge**
Mathieu Lesourd¹, François Osiurak²
¹Umr Inserm 1322 Linc (FR), ²Université Lyon (FR)
- 65 **Probing Material Perception and Categorization using AI-Generated Images**
Jacob Cheeseman¹, Philipp Schmidt¹, Chenxi Liao², Bei Xiao², Roland Fleming¹
¹Justus Liebig University Giessen (DE), ²American University (US)
- 67 **Duration and luminance intensity of chromatic environments interact to alter our perception of colour**
Erin Warden-english¹, Antony Morland¹, Heidi Baseler¹
¹University of York (UK)
- 69 **Forward and backward alpha-band travelling waves reflect temporal expectations in a statistical learning paradigm**
Martina Pasqualetti¹, Andrea Alamia¹
¹CNRS, CerCo (FR)
- 71 **Action video games improve phonemic awareness in pre-reader children at risk for developmental dyslexia**
Simone Gori¹, Sara Bertoni¹, Chiara Andreola⁴, Sara Mascheretti⁵, Sandro Franceschini⁶, Milena Ruffino⁷, Vittoria Trezzi², Massimo Molteni², Maria Enrica Sali², Antonio Salandi², Ombretta Gaggi³, Claudio Palazzi³, Andrea Facoetti³
¹University of Bergamo (IT), ²IRCCS E. Medea (IT), ³University of Padua (IT), ⁴Université Paris Cité (FR), ⁵University of Pavia (IT), ⁶Sigmund Freud University (AT), ⁷ASST Valle Olona (IT)



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- 73 **Gaze Following in Complex Virtual Environments: Comparing Human and Robot Avatars**
Jochen Miksch¹, Inka Schmitz¹, Wolfgang Einhäuser-Treyer¹
¹Chemnitz University of Technology (DE)
- 75 **I feel it is true! Emotion-Based Predictors of Photos' Authenticity Perception**
Beata Pacula¹, Agata Szymańska¹, Joanna Pilarczyk¹, Tomasz Kulczycki¹, Laurent Beaupoil¹, Michał Kuniecki¹
¹Jagiellonian University (PL)
- 77 **I (don't) see it in your face: Limited integration of context in dynamic emotion perception**
Ignė Jasukaitė¹, Margaret Jackson¹, Patric Bach¹
¹University of Aberdeen (UK)
- 79 **Perception of the Relative Size of Volumetric Shapes in Virtual Reality**
Iroshini Gunasekera¹, Xue Teng¹, Faruq Afolabi¹, Romina Abadi¹, Robert S Allison¹, Laurie M Wilcox¹
¹York University (CA)
- 81 **Augmented Identity: Unveiling the Influence of Cybernetic Enhancements on Personality Perception**
Mattis Jost¹, Niklas Döbler¹, Claus-Christian Carbon¹
¹Otto-Friedrich-Universität Bamberg (DE)
- 83 **Both central tendency bias and serial dependence affect judgements about orientation and hue**
Saija Niemi¹, Maria Olkkonen¹, Toni Saarela¹
¹University of Helsinki (FI)
- 85 **Characterising time-on-task effects on oscillatory and aperiodic EEG components during visual task performance**
Martina Kopcanova¹, Gregor Thut², Christopher Benwell¹, Christian Keitel¹
¹University of Dundee (UK), ²University of Glasgow (UK)
- 87 **Audio-visual integration during knowledge activation in real-world scene processing**
Krystian Ciesielski¹, Sara Spotorno²
¹Keele University (UK), ²Durham University (UK)
- 89 **Around the Clock: Physiological Markers of Lapses in Attention During Sustained Task Performance**
Emily Cunningham¹, Magdalena Ietswaart¹, Christian Keitel²
¹University of Stirling (UK), ²University of Dundee (UK)
- 91 **Evaluation of region-of-use in spectacle lenses with eye-tracking technology**
Marta Álvarez¹, Clara Benedi-Garcia¹, Pablo Concepcion-Grande¹, Carmen Cano¹, Amelia González¹, José Miguel Cleva¹, Eva Chamorro¹
¹IOT (ES)
- 93 **Probing object and scene meaning in visual search: a quasi-experimental approach**
Antje Nuthmann¹, Anton Janser
¹Kiel University (DE)
- 95 **Effect of discrete and continuous movements on visual time perception**
Xuening Li¹, Elise Abou Mrad¹, Louis Garcia¹, Robin Baurès¹, Joseph Tisseyre², Sylvain Cremoux¹
¹Centre de Recherche Cerveau & Cognition (FR), ²Toulouse Neuro Imaging Center (FR)



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- 97 **From movement vigor to “perceptual vigor”: Eye movements alter the postdictive window of visual awareness**
Joan Danielle K. Ongchoco¹, Martin Rolfs¹
¹Humboldt-Universität zu Berlin (DE)
- 99 **Measuring melanopsin modulation of V1 responses using fMRI**
Lauren Welbourne², Joel Martin¹, Alex Wade², Federico Segala², Annie Morsi², Daniel Baker²
¹University of Edinburgh (UK), ²University of York (UK)
- 101 **Brief Non-Spatial Cues Facilitate Search Performance in Dynamic Environments with Robots**
Bora Celebi¹, Julian Kaduk², Müge Cavdan¹, Heiko Hamann³, Knut Drewing¹
¹Justus Liebig University Giessen (DE), ²University of Lübeck (DE), ³University of Konstanz (DE)
- 103 **Does implicit prior information about compliance contribute to exploratory force control in active touch?**
Didem Katircilar¹, Knut Drewing¹
¹Justus Liebig University Giessen (DE)
- 105 **Jade: a real-time, VR-ready gaze event detector**
Mark Shovman¹
¹Eyeviation Ltd (IL)
- 107 **The influence of task engagement on time perception**
Maria Michela Del Viva¹, Ottavia D'agostino¹, Serena Castellotti²
¹University of Florence (IT), ²University of Pisa (IT)
- 109 **"Oh They Can Draw!"- Does Representational Context Affect Viewers Judgement of Abstract Art?**
Clare Kirtley¹
¹University of Aberdeen (UK)
- 111 **Pattern motion and optic flow analyses automatically acquired by decoding self-motion during natural motor actions**
Hiroaki Gomi¹
¹NTT Communication Science Labs (JP)
- 113 **Insights into Antisaccade Performance and Motion Extrapolation in Hemianopia Patients**
Luca Battaglini¹, Marianna Musa¹, Francesco Costalunga¹
¹University of Padova (IT)
- 115 **Multicenter Assessment Pattern Reversal Visual Evoked Potentials in Children: Establishing Reference Intervals and Clinical Utility**
Eszter Mikó Baráth¹, Dorothy A. Thompson², Sharon E. Hardy³, Gábor Jandó⁴, Martin Shaw⁵, Ruth Hamilton⁵
¹University Of Pécs, Medical School (HU), ²The Tony Kriss Visual Electrophysiology Unit, Clinical and Academic, Department of Ophthalmology, Great Ormond Street Hospital (UK), ³University College London Hospitals NHS Foundation Trust (UK), ⁴Institute of Physiology, Medical School, University of Pécs (HU), ⁵Department of Clinical Physics and Bioengineering, NHS Greater Glasgow and Clyde, Royal Hospital for Children, Glasgow (UK)
- 117 **Feature- and motor-based temporal predictions differentially benefit visual search performance in dynamic settings**
Gwenllian Williams¹, Sage E. P. Boettcher¹, Anna C. Nobre²
¹University of Oxford (UK), ²Yale University (US)



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- 119 **A comparative study of the perceptual quality and aesthetic attributes across Tone-Mapping Operators**
Alejandro Parraga¹, Pau Blasco Roca², Xim Cerdà Companys¹, Xavier Otazu Porter¹
¹Computer Vision Center (ES), ²Univ. Autònoma de Barcelona (ES)
- 121 **Elevated Peripheral Crowding in Pre-Perimetric Glaucoma Evaluated Using Eye-Movement and Manual Response Paradigms**
Dilce Tanriverdi¹, Khaldoon Al-Nosairy², Michael B. Hoffmann², Frans W. Cornelissen¹
¹University Medical Center Groningen (NL), ²Otto-von-Guericke University (DE)
- 123 **Right in front of your nose: attention and decision making in dressage judging?**
Peter Reuter¹, Yulia Zaharia¹, Inga Wolfram¹
¹Van Hall Larenstein University (NL) /Tobii (SE)
- 125 **Intergroup processes and the happy face advantage**
Doug Martin¹
¹University of Aberdeen (UK)
- 127 **Synthetic information processing: role of input and observer characteristics**
Meike Ramon¹
¹Applied Face Cognition Lab, University of Lausanne (CH)
- 129 **Configurations in Motion: Investigating the Relative Impact of Stimulus Characteristics on Motion perception**
Simon Merz¹
¹University of Trier (DE)
- 131 **Comparing functional performance effects of VR-simulated static and dynamic visual disturbances**
Paul Warren¹, Christine Dickinson¹, Neil Parry^{1,2}, Boris Otkhmezuri¹, Graham Bell, Joshua D Haynes
¹University of Manchester (UK), ²Manchester Royal Eye Hospital (UK)
- 133 **A hierarchical efficient Bayesian observer model predicts attractive and repulsive history effects in multistable perception**
Eline Van Geert¹, Tina Ivančir¹, Johan Wagemans¹
¹KU Leuven (BE)
- 135 **Saccade execution and inhibition shorten the perceived duration of peripheral stimuli**
Alina Krug¹, Lisa Eberhardt¹, Manuel Rindle¹, Anke Huckauf¹
¹Ulm University (DE)
- 137 **Foveal feedback effects in an offset discrimination task with flanker interference**
Roberta Cessa¹, Martina Morea², Michael Herzog², Marco Bertamini¹
¹University of Padua (IT), ²EPFL (CH)
- 139 **Colouring words with gaze: A novel approach to enhance reading skills in beginner readers**
Koen Rummens¹, Sofie Beier¹
¹Centre for Visibility Design, Royal Danish Academy (DK)
- 141 **The relationship between Multiple Object Tracking and cognitive task performance in children and adults**
Julia Föcker¹, Hauke Meyerhoff², Elena Nava³
¹University of Lincoln (UK), ²University of Erfurt (DE), ³University of Milan-Bicocca (IT)
- 143 **Defining a functional hierarchy of millisecond time: from processing to perception**
Valeria Centanino¹, Gianfranco Fortunato¹, Domenica Bueti¹
¹International School for Advanced Studies (SISSA) (IT)



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- 145 **Paradigm-dependent isolation of perceptual correlates with fMRI**
Georgia Milne¹, Roni Maimon-Mor¹, Hugo Chow-Wing-Bom¹, Tessa Dekker¹
¹UCL (UK)
- 147 **Adaptation leads to faster reaction times in a face search task**
Fang Jiang¹, Idris Shareef¹, Michael Webster¹, Alireza Tavakkoli¹
¹University of Nevada (US)
- 149 **GramStatTexNet Extended: Evaluating the Relative Importance of Gram Matrix Statistics for Texture Models**
Vasha DuTell¹, Christian Kovessi¹, Anne Harrington¹, Mark Hamilton¹, Zeyu Yun², William T Freeman¹, Ruth Rosenholtz¹
¹MIT (US), ²UC Berkeley (US)
- 151 **Testing Driver Monitoring Systems and Driving Distractions via a Customised Robotics and VR Setup**
Jiacheng Liu¹, Zirui Bai¹, Shihao Gan¹, Yue Li¹, Fan Zhang¹
¹Xi'an Jiaotong-Liverpool University (CN)
- 153 **Seeing gender stereotypes: The role of second-order head/ facial features**
Daniele Zavagno¹, Federico Paulesu¹, Rossana Actis-Grosso¹
¹University of Milano-Bicocca (IT)
- 155 **Different temporal dynamics of perceptual distortion of visual space inside and outside of objects**
Akira Sarodo¹, Kentaro Yamamoto², Saki Takao³, Katsumi Watanabe¹
¹Waseda University (JP), ²Kyushu University (JP), ³University of Tokyo (JP)
- 157 **The detrimental use of redundant motion signals in car direction indicators**
Thomas Otto¹, Yi Ren¹
¹University of St Andrews (UK)
- 159 **Perception of emotional states based on eye regions in 5- to 10-year-olds and adults**
Tomoko Imura¹, Yuiko Kanamori¹, Yoshiyuki Ueda², Nobu Shirai³
¹Japan Women's University (JP), ²Kyoto University (JP), ³Rikkyo University (JP)
- 161 **The effects of colour desaturation of food images on approach behaviour**
Daniela Ruseva¹, Martin Giesel¹, Constanze Hesse¹
¹University of Aberdeen (UK)

Symposium 3

Space matters: Cortical traveling waves and their role in perception and attention
 10.30–12.00 (Room 1A)

Cortical traveling waves and their measurement

Kirsten Petras^{1,2}, Laura Dugué^{1,2}

¹Université Paris Cité, CNRS, Integrative Neuroscience and Cognition Center (FR), ² Institut Universitaire (FR)

Forward and backward traveling waves reflect different cognitive processes during visual attention and working memory

Andrea Alamia¹

¹Cerco – CNRS (FR)

What can oscillation phase tell us about traveling waves - perspective from MEG

Satu Palva¹

¹University of Helsinki (FI)



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Mapping neural mechanisms of travelling waves using MEG

Alexander Zhigalov¹, Ole Jensen²

¹Aston University (UK), ²University of Birmingham (UK)

How travelling waves in the visual cortex participate in processing visual motion

Frederic Chavane¹

¹CNRS & Aix-Marseille Univ (FR)

Talk Session 5

Perception & Action

10.30–12.00 (Room 1B)

- 10.30 **Perception-Action Dissociations in the Garner Paradigm: Evaluating Evidence From Manual Size Estimation**
Kriti Bhatia¹, Angela Osenberg¹, Markus Janczyk², Volker H. Franz¹
¹University of Tuebingen (DE), ²University of Bremen (DE)
- 10.45 **Scene gist: the rapid acquisition of information for grasping**
Kimberley Stanford¹, Simon Rushton¹, Eli Brenner²
¹Cardiff University (UK), ²Vrije Universiteit Amsterdam (NL)
- 11.00 **Visually guided grasping survives large bilateral lesions of the occipitotemporal cortex: Behavioural and neuroimaging evidence**
Ana Torres Cresto¹, Marine Keime¹, Cassandra Sampaio-Baptista¹, Alessandro Vinciarelli¹, Melvyn A. Goodale², Jody C. Culham², Monika Harvey¹
¹University of Glasgow (UK), ²University of Western Ontario (CA)
- 11.15 **A new model of perceived weight: The size-weight illusion and beyond**
Veronica Pisu¹, Erich Graf¹, Wendy Adams¹
¹University of Southampton (UK)
- 11.30 **Is Visuo-Haptic Mental Imagery Related to the Strength of the Size-Weight Illusion?**
Guido Maiello¹, Veronica Pisu¹, Fabrizio Lepori¹, Carmen Surariu¹, Chloe Lam¹, Paul Conway¹
¹University of Southampton (UK)
- 11.45 **Postural demands influence head contributions during visual tracking**
Petros Georgiadis¹, Katja Fiehler¹, Vassilia Hatzitaki², Dimitrios Voudouris¹
¹Justus Liebig University Giessen (DE), ²Aristotle University of Thessaloniki (GR)

Symposium 4

Congenital achromatopsia as a model testing vision development and plasticity

10.30–12.00 (Room 3)

Achromatopsia - limits of visual cortex plasticity in the absence of functional cones

Michael Hoffmann¹, Barbara Molz⁷, Anne Herbik¹, Heidi Baseler⁷, Peter de Best⁶, Noa Raz⁶, Andre Gouws⁷, Khazar Ahmadi¹, Rebecca Lowndes⁷, Rebecca McLean², Irene Gottlob², Susanne Kohl³, Lars Choritz¹, John Maguire⁴, Martin Kanowski¹, Barbara Käsmann-Kellner⁵, Ilse Wieland, Eyal Banin⁶, Netta Levine⁶, Antony Morland⁷

¹Magdeburg University (DE), ²Leicester University (UK), ³Tübingen University (DE), ⁴Bradford University (UK), ⁵Saarland University (DE), ⁶Hadassah Medical Center (IL), ⁷York University (CA)



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Structural differences in adult visual cortex following development without functional cone input

Heidi Baseler¹, Barbara Molz⁷, Rebecca Lowndes¹, Anne Herbig², Lucy Warriner¹, Pieter de Best⁸, Richard Vernon¹, Noa Raz⁸, Andre' Gouws¹, Khazar Ahmadi², Rebecca McLean³, Irene Gottlob³, Susanne Kohl⁴, Lars Choritz², John Maguire⁶, Martin Kanowski², Barbara Kasmann-Kellner⁵, Ilse Wieland², Eyal Banin⁸, Netta Levin⁸, Michael Hoffmann², Antony Morland¹

¹University of York (UK), ²Otto-von-Guericke University (DE), ³University of Leicester (UK), ⁴University Clinics Tübingen (DE), ⁵Saarland University Hospital (DE), ⁶University of Bradford (UK), ⁷Max Planck Institute for Psycholinguistics (DE), ⁸Hadassah Medical Center (IL)

Approaches and challenges to measuring cone-specific responses in clinical populations

Geoffrey Aguirre¹

¹University of Pennsylvania (US)

Cone-mediated visual function after gene therapy in achromatopsia

Tessa Dekker¹, Roni Maimon-Mor¹, Mahtab Farahbakhsh¹, Elaine Anderson¹, Nicholas Hedger², Tomas Knapen³, Sam Schwarzkopf⁴, Andy Rider¹, Geraint Rees¹, Michel Michaelides¹

¹University College London (UK), ²University of Reading (UK), ³University of Amsterdam (NL), ⁴University of Auckland (NZ)

Following gene augmentation therapy: cone-mediated vision and its limits after a lifetime of rod monochromacy

Ayelet Mckyton¹, Eyal Banin¹, Netta Levin

¹Hadassah Medical Center (IL)

**Spotlight in Vision Lecture
13.30–15.00 (Room 1)**

Modelling Vision in the Face of Large Language Models

Tim Kietzmann¹

¹University of Osnabrück (DE)

**Poster Session 4 [even numbers]
15.00–16.30 (Hall B)**

- 2 **Depth reversals in Patrick Hughes' Reverspectives: a flippin' problem**
Brian Rogers¹, Patrick Hughes², Thomas Papatomas³
¹University of Oxford (UK), ²Reverspective Ltd. (UK), ³Rutgers University (US)
- 4 **Investigation of the Interplay Between Natural and Learned Priors in Autistic and Non-Autistic Individuals**
Laurina Fazioli¹, Bat-Sheva Hadad¹, Amit Yashar¹
¹University of Haifa (IL)
- 6 **Journey towards restoration: Does statistical stability in a train of natural scenes benefit cognition?**
Shoaib Nabil¹, Monica Pantiru¹, Sophie Forster¹, John Maule¹
¹University of Sussex (UK)
- 8 **An adaptable spatial metric is sensitive to adaptor orientation**
Kristian Skoczek¹, Paul McGraw¹, Neil Roach¹, Alan Johnston¹
¹University of Nottingham (UK)



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- 10 **Numerosity Is Driven By Intermediate Visual Representations**
Elias Wahl¹, Sari Saba-Sadiya¹, Thomas Chapalain², Evelyn Eger², Gemma Roig¹
¹Goethe University (DE), ²INRIA Saclay, NeuroSpin (FR)
- 12 **Comparable colour constancy for average colour and single colour percepts**
Lari Virtanen¹, Toni Saarela¹, Maria Olkkonen¹
¹University of Helsinki (FI)
- 14 **Facial expression recognition with regard to faces behind observers**
Hideki Tamura¹, Yugo Kobayashi¹, Shigeki Nakauchi¹, Tetsuto Minami¹
¹Toyohashi University of Technology (JP)
- 16 **Temporal dynamics of representations shared between visual perception and imagery**
Carolina Libertad Shimabukuro¹, Radoslaw Martin Cichy¹
¹Freie Universität Berlin (DE)
- 18 **Exploring emotional dimensions and colorimetric structures of abstract paintings through psychophysical scale**
Carlo Martins Gaddi¹, Marcelo Fernandes da Costa¹
¹University of São Paulo (BR)
- 20 **Image statistics and the visibility of distortions in things and stuff**
Swantje Mahncke¹, Lina Eicke-Kanani¹, Thomas S. A. Wallis¹
¹Technical University Darmstadt (DE)
- 22 **Comparison of left-visual-field bias in autistic individuals in 3D VR environments versus a 2D task**
Hana Alarifi¹, Carlo Campagnoli¹
¹University of Leeds (UK)
- 24 **Looking down: Downcast gaze influences the believability of happiness and sadness in computer-generated faces**
Julia Haile¹, Romina Palermo¹, Amy Dawel², Eva Krumhuber³, Clare Sutherland^{4,1}, Jason Bell¹
¹University of Western Australia (AU), ²Australian National University (AU), ³University College London (UK), ⁴University of Aberdeen (UK)
- 26 **Visual factors influence perceived time of eye movement but not visuo-motor temporal recalibration**
Wiebke Noerenberg¹, Richard Schweitzer², Martin Rolfs¹
¹Humboldt-Universität zu Berlin (DE), ²Università degli Studi di Trento (IT)
- 28 **Asymmetric effect of Action-Effect uncertainty and feature uncertainty on action effect binding**
Meera Sunny¹, Rajalakshmi Usha¹, Neeraj Kumar²
¹IIT Gandhinagar (IN), ²IIT Hyderabad (IN)
- 30 **Pre-attentive computation of density-defined motion**
Joshua Solomon¹, Fintan Nagle¹
¹City St George's, University of London (UK)
- 32 **About cross-modal commutativity in magnitude production**
Dorina Kohler¹
¹University of Tübingen (DE)
- 34 **Population coding for figure-ground texture segregation in macaque V1 and V4**
Xing-Nan Zhao¹, Xing-Si Dong¹, Si Wu¹, Shi-Ming Tang¹, Cong Yu¹
¹Peking University (CN)



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- 36 **Brain regions representing numerosity across the senses and presentation formats**
Ying Yang¹, Michele Fornaciai¹, Irene Togoli¹, Iqra Shahzad¹, Alice Van Audenhaege¹, Filippo Cerpelloni³, Olivier Collignon^{1,2}
¹UCLouvain (BE), ²The Sense Innovation and Research Center, HES-SO Valais-Walis (Lausanne and Sion) (CH), ³KULeuven (BE)
- 38 **Location-specific improvements in spatial attention induced by training on a crowding task**
Elena von Perponcher¹, Kim Kessler¹, Konstantin Maier¹, Mark Greenlee¹, Tina Plank¹
¹University of Regensburg (DE)
- 40 **Direction congruency in the Motion-Bridging-Effect: The transfer of unconscious direction information from a spinning ring**
Lotta Ottensmeyer¹, Robert Fendrich¹, Uwe Mattler¹
¹Georg-August-University Göttingen (DE)
- 42 **Can activated long-term memory content influence target verification in visual search?**
Maxim Morozov¹
¹RANEPA (RU)
- 44 **Modeling the Relationship Between Stimulus Characteristics and Visual Attention: An Eye-Tracking Study**
Ela Berger¹, Michal Hochhauser¹
¹Department of Occupational Therapy, Ariel University (IL)
- 46 **Scene context influences gaze orientation on objects in peripheral vision**
Eva Aprile¹, Nathalie Guyader², Alexia Roux-Sibilon³, Louise Kauffmann², Carole Peyrin²
¹CNRS UMR5105 (FR), ²Université Grenoble Alpes, CNRS, Grenoble INP, GIPSA -Lab (FR), ³Université Clermont-Auvergne, CNRS, LAPSCO (FR)
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John Troy¹, Lisa Diller
¹Northwestern University (US)
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Alberto Mariconda¹, Mauro Murgia¹, Valter Prpic², Tiziano Agostini¹, Ian M. Thornton³
¹University of Trieste (IT), ²Department of Philosophy and Communication Studies, University of Bologna (IT), ³Department of Cognitive Science, University of Malta (MT)
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¹University of Pécs (HU), ²Institute of Physiology, Medical School, University of Pécs (HU)
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¹South China Normal University (CN), ²University of Chinese Academy of Sciences (CN)
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¹CIMEC (Center for Mind and Brain Sciences) (IT), ²University of Trento (IT), ³University of Regensburg (DE)



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Yesesvi Konakanchi¹, Jenny Bosten¹, Anna Franklin¹, John Maule¹
¹University of Sussex (UK)
- 60 **Uncertainty processing in Schizophrenia - electrophysiological evidence of alterations in intensity and temporal precision**
Ellen Joos¹, Estelle Koning², Camille Scherer², Mareike Wilson³, Ludger Tebartz van Elst, Anne Giersch, Jürgen Kornmeier
¹Institute For Frontier Areas of Psychology and Mental Health (IGPP) (DE), ²INSERM U1114, Cognitive Neuropsychology and Pathophysiology of Schizophrenia (FR), ³Department of Psychiatry and Psychotherapy, University of Freiburg (DE)
- 62 **Monocular delay during active vision shifts ocular dominance**
Giacomo Pennella¹, Cecilia Steinwurz², Giulio Sandini³, Maria Concetta Morrone², Paola Binda²
¹University of Florence (IT), ²University of Pisa (IT), ³Research Unit of Robotics, Brain, and Cognitive Sciences (RBCS), Istituto Italiano di Tecnologia (IT)
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¹Oregon National Primate Research Center (US)
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Soyogu Matsushita¹
¹Osaka Shoin Women's University (JP)
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¹National & Kapodistrian University of Athens (GR)
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Li Jingling¹
¹China Medical University (CN)
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Anna Antipova¹, Ilia Nachevskiy²
¹Pirogov Russian National Research Medical University (RU), ²Russian Academy of Sciences (RU)
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¹Gipsa Lab (FR), ²Université Grenoble Alpes (FR)
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¹Bangor University (UK)
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¹UMC Groningen (NL), ²Utrecht University (NL), ³Donders Institute, Radboud University Nijmegen (NL)
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¹French Armed Forces Biomedical Research Institute (FR), ²Université Gustave Eiffel (FR)
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¹Queen Mary University London (UK), ²King's College London (UK), ³International School for Advanced Studies (SISSA) (IT)
- 86 **Investigating the relationship between dyadic person similarity and face judgement similarity**
 Rochelle Williams¹, Lúcia Garrido¹
¹City, University of London (UK)
- 88 **The flexibility of cue combination in response to new physical and social information**
 Meike Scheller¹, Jie Sui², Marko Nardini¹
¹Durham University (UK), ²University of Aberdeen (UK)
- 90 **Symmetry as a Cue to Animacy**
 Colin Clifford¹, Lindsay Peterson¹, Kritika Sarna¹, Fun Kaoru Hui Sato¹, Kateryna Marchenko¹, Erin Goddard¹, Branka Spehar¹
¹UNSW Sydney (AU)
- 92 **The tolerance for changes in eye size on perception of face identity**
 Megumi Kobayashi¹, Akari Matsukawa¹
¹Niigata University (JP)
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 Sule Tasliyurt Celebi¹, Benjamin de Haas¹, Melissa Vö², Katharina Dobs¹
¹Justus Liebig University Giessen (DE), ²Goethe University Frankfurt (DE)
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 Yugo Kobayashi¹, Hideki Tamura¹, Shigeki Nakauchi¹, Tetsuo Minami¹
¹Toyohashi University of Technology (JP)
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 Olga Daneyko¹, Svetlana Emelianova², Daniele Zavagno³
¹Sheffield Hallam University (UK), ²Lomonosov Moscow State University (RU), ³University of Milano-Bicocca (IT)
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 Yonghao Chen¹, Tilman Stephani¹, Milena Teresa Bagdasarian², Anna Hilsmann², Peter Eisert², Arno Villringer¹, Sebastian Bosse², Michael Gaebler¹, Vadim V. Nikulin¹
¹Max Planck Institute for Human Cognitive and Brain Science (DE), ²Fraunhofer HHI (DE)
- 102 **Reading acceleration training combined with bilateral parietal beta-tACS ameliorates reading and gaze control in dyslexia**
 Giuseppe Di Dona¹, Denisa Adina Zamfira¹, Francesco De Benedetto¹, Chiara Turri¹, Camilla Venturini¹, Lisa Venniro¹, Daniela Perani¹, Luca Ronconi¹
¹Vita-Salute San Raffaele University; Division of Neuroscience, IRCCS San Raffaele Scientific Institute (IT)



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Michele Tosi¹, Giulia Ellena², Federica Contò², Grace Edwards³, Lorella Battelli^{4,2}
¹University of Trento (IT), ²Italian Institute of Technology (IT), ³National Institute of Mental Health (Bethesda - MD) (US), ⁴Harvard Medical School (US)
- 106 **Rapid visual motion priming effects partially explained by response artefacts rather than perceptual effects**
Kimberley Dundas¹, Joseph Brooks²
¹Open Science Tools (UK), ²Keele University (UK)
- 108 **Eye-guided video games improve reading in healthy older adults**
Cristina Costantini¹, Ramon Pedrini¹, Sara Polato¹, Claudio Lira², Alessio Facchin³, Roberta Daini^{1,4}
¹University of Milano-Bicocca (IT), ²Neotenia LTD (IT), ³University of Magna Graecia (IT), ⁴IRCCS Fondazione Don Carlo Gnocchi ONLUS (IT)
- 110 **Spatiotemporal processing in dyslexia**
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- 112 **Looking to the past: differences in oculomotor activity between verbal and visuospatial maintenance**
Teodor Nikolov¹, Candice Morey¹
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¹Technical University of Darmstadt (DE), ²Electrical & Computer Engineering, UC San Diego (US), ³HDSI, UC San Diego (US)
- 116 **Visual perception of naturalistic actions in the theoretical framework of perceptual decision-making: An EEG study**
Şeyda Evsen¹, Burcu Aysen Urgan¹
¹Bilkent University (TR)
- 118 **Lightness of the 3D virtual objects under two illumination levels**
Predrag Nedimović¹, Sunčica Zdravković¹
¹Laboratory For Experimental Psychology, Department of Psychology, Faculty of Philosophy, University of Belgrade (RS)
- 120 **Cross-modal matching of brightness and loudness, and internal references**
Katharina Naumann¹, Jürgen Heller¹
¹University of Tübingen (DE)
- 122 **A network analysis of factors of visual hypersensitivity and symptoms of anxiety**
Alice Price¹, Petroc Sumner¹, Rebecca Taylor¹, Georgina Powell¹
¹Cardiff University (UK)
- 124 **Temporal Properties of Pupillary Synchronization During Human Communication**
Kristen Lott¹, Zahra Hosseini¹, Nicholas Logan¹, Nikolaus Troje²
¹York University (CA), ²York University, Centre for Vision Research (CA)
- 126 **Can changes in pupil diameter cause illusory visual motion?**
George Mather¹, Patrick Cavanagh²
¹University of Sussex (UK), ²York University (CA)



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- 128 **How do expectations in potential information gain influence saccade decision and performance?**
Thibault Desbordes¹, Nadia Alahyane¹, Alain Guillaume¹
¹Vision Action Cognition Lab (FR)
- 130 **Exploring the neural basis of individual gaze in complex scenes**
Diana Kollenda¹, Elaheh Akbarifathkouhi¹, Maximilian Broda¹, Benjamin de Haas¹
¹Justus Liebig University, Giessen (DE)
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A. Burak Kurt¹, Lorenzo Landolfi¹, Monica Gori¹, Eli Brenner²
¹Istituto Italiano di Tecnologia (IT), ²Vrije Universiteit Amsterdam (NL)
- 134 **Characterising the Neural Dynamics of Object-Based Attention in the Presence of Hemispheric Competition with M/EEG**
Yuena Zheng¹, Daniel Mitchell², John Duncan², Alexandra Woolgar²
¹University of Cambridge (UK), ²MRC Cognition and Brain Sciences Unit, University of Cambridge (UK)
- 136 **Visual Reference and its Impact on Consumer Assessment of Medication Dosage**
Lea Laasner Vogt¹, Daniele Catarci¹, Ester Reijnen¹
¹ZHAW Zurich University of Applied Sciences (CH)
- 138 **No automatic post constancy representations of symmetry**
Alexis Makin¹
¹University of Liverpool (UK)
- 140 **Prediction-dependent biases in orientation oscillate in synchrony with saccades at alpha frequencies**
Xinyu Xie¹, David Burr², Maria Concetta Morrone³
¹East China Normal University (CN), ²University of Florence (IT), ³University of Pisa (IT)
- 142 **Cross-modal reliability defeats the central tendency effect**
Alessia Tonelli¹, Cameron K. Phan¹, David Alais¹
¹The University of Sydney (AU)
- 144 **Influences of Neural Oscillation Phase on Perception of the Tilt Illusion**
 Jessica Williams¹, William Harrison², Henry Beale¹, Jason Mattingley¹, Anthony Harris¹
¹The University of Queensland (AU), ²University of the Sunshine Coast (AU)
- 146 **The emergence and calibration of magnitude integration between duration and numerosity**
Irene Togoli¹, Michele Fornaciai¹, Samuel Binisti¹, Olivier Collignon¹
¹Université Catholique De Louvain (BE)
- 148 **Causal effects of rhythmic TMS on behaviour in visual short term and working memory tasks**
Katarzyna Jaworska¹, Máté Gyurkovics¹, Matias Palva², Satu Palva², Gregor Thut¹
¹University of Glasgow (UK), ²University of Helsinki (FI)

Talk Session 6

Face Perception

16.30–18.00 (Room 1A)

- 16.30 **Super-Recognizers or Su-perceivers**
Jeff Nador¹, Meike Ramon¹, Kim Uittenhove¹
¹AFC Lab, University of Lausanne (CH)



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- 16.45 **Yes, No, Maybe-so: An investigation of response option framing on face identification decisions**
Kristen Baker¹, Markus Bindemann¹
¹University of Kent (UK)
- 17.00 **The perceptual integrality of sex and age: understanding the functional organisation of face processing**
Paul Aitken¹, Paul Downing¹
¹Bangor University (UK)
- 17.15 **The neural basis of face pareidolia with human intracerebral recordings**
Begüm Cerrahoglu¹, Corentin Jacques¹, Jacques Jonas², Louis Maillard², Sophie Colnat-Coulbois², Diane Rekow³, Arnaud Leleu³, Bruno Rossion¹
¹Universite De Lorraine (FR), ²Université de Lorraine, Service de Neurologie CHRU (FR), ³Université Bourgogne Franche-Comté (FR)
- 17.30 **Evidence for an alternative account for the other-"race" effect, taking out "race"**
Juergen M. Kaufmann¹, Stefan R. Schweinberger¹
¹Friedrich Schiller University Jena (DE)
- 17.45 **Contextual Variability Does Not Improve Face Learning**
Cathy Mondloch¹, Truong Nguyen¹, Molly Nullmeyer¹, Kristen Baker²
¹Brock University (CA), ²University of Kent (UK)

Talk Session 7

Material Perception

16.30–18.00 (Room 1B)

- 16.30 **Viscosity or Roughness? – What makes a material unpleasant**
Müge Cavdan¹, Zhong Jian Chee², Rochelle Ackerley³, Constanze Hesse², Knut Drewing¹
¹Justus Liebig University Giessen (DE), ²University of Aberdeen (UK), ³Aix-Marseille University (FR)
- 16.45 **Multisensory saliency in object surface exploration**
Anna Metzger¹, Vida Ahmadi Arab¹, Matteo Toscani¹
¹Bournemouth University (UK)
- 17.00 **Relative Contribution of Boundary Motion in Material Perception**
Amna Malik¹, Ying Yu², Huseyin Boyaci³, Katja Doerschner¹
¹Justus-Liebig-Universität Gießen (DE), ²EYSZ Inc. (US), ³Bilkent University (TR)
- 17.15 **Sound symbolic characteristics of natural materials**
İrem Tuncel¹, Hamza Nalbantoğlu¹, Dicle Dövençioğlu²
¹Department of Psychology, Middle East Technical University (TR), ²METU (TR)
- 17.30 **Precision Grip and Unconstrained Visually-Guided Grasping of Multi-Material Objects**
Fabrizio Lepori¹, Frieder Hartmann², Kira Dehn², Manuela Chessa³, Roland Fleming², Guido Maiello⁴
¹University Of Southampton (UK), ²Department of Experimental Psychology, Justus Liebig University Giessen (DE), ³Department of Informatics, Bioengineering, Robotics, and Systems Engineering, University of Genoa (IT), ⁴School of Psychology, University of Southampton (UK)
- 17.45 **The Contribution of Auditory and Haptic Target Information in Guiding Reaching Movements**
Ivan Camponogara¹
¹Zayed University (AE)



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Talk Session 8

3D Vision, Depth & Stereo

16.30–18.00 (Room 3)

- 16.30 **Can we reshape depth cue integration? Evidence of perceptual cue reweighting through dynamic interaction experience**
Francesca Peveri¹, Andrea Canessa¹, Silvio Paolo Sabatini¹
¹University of Genoa (IT)
- 16.45 **The importance of measuring coarse stereopsis in the assessment of residual binocular function**
Deborah Giaschi¹, Meriwether Morris¹, Kimberly Meier², Laurie Wilcox³
¹University of British Columbia (CA), ²University of Houston (US), ³York University (CA)
- 17.00 **Depth perception from disparity, motion parallax and their combination in patients with central field loss**
Jade Guenot¹, Preeti Verghese¹
¹Smith-Kettlewell Eye Research Institute (US)
- 17.15 **Dual-task costs suggest dependence between depth and 3D curvature processing**
Celine Aubuchon¹, Sebastian Musslick^{1,2}, Fulvio Domini¹
¹Brown University (US), ²Osnabrueck University (DE)
- 17.30 **All sizes of the Moon - perceived size and depth cues distribution**
Oliver Tošković¹
¹Laboratory for Experimental Psychology, University of Belgrade (RS)
- 17.45 **Treating adult amblyopia through combined physical exercise and inverse occlusion: evidence from 7T BOLD responses**
Miriam Acquafredda¹, Irene Di Marco², Guido Marco Cicchini³, Laura Biagi⁴, Michela Tosetti⁴, Alessandro Sale³, Paola Binda¹, Maria Concetta Morrone¹
¹University of Pisa (IT), ²University of Florence (IT), ³ Institute of Neuroscience, National Research Council, Pisa (IT), ⁴IRCCS Stella Maris Foundation, Pisa (IT)