



WEDNESDAY 28TH AUGUST

## Wednesday 28th August

### Poster Session 5 [odd numbers] 09.00–10.30 (Hall B)

- 1 **Retention of non-configural face information**  
Ronja Mueller<sup>1</sup>, Claus-Christian Carbon<sup>2</sup>, Sandra Utz<sup>2</sup>, Tilo Strobach<sup>1</sup>  
<sup>1</sup>Medical School Hamburg (DE), <sup>2</sup>University of Bamberg (DE)
- 3 **Impact of PTSD on attentional capture, guidance, and target verification during visual search**  
Samantha Tyler<sup>1</sup>, Doug J. K. Barrett<sup>1</sup>  
<sup>1</sup>University of Leicester (UK)
- 5 **Testing the interaction between fine and coarse scales with moving plaids**  
Omar Bachtoula<sup>1</sup>, Ignacio Serrano-Pedraza<sup>1</sup>  
<sup>1</sup>Universidad Complutense de Madrid (ES)
- 7 **Age-Related Visual Search: Distractor Impact on Reaction Times and Accuracy**  
Mohammad Ahsan Khodami<sup>1</sup>, Luca Battaglini<sup>1</sup>  
<sup>1</sup>University of Pauda (IT)
- 9 **Investigating semantic properties of objects in scenes using fine-grained crowd-sourced and computational methods**  
Marek Pedziwiatr<sup>1</sup>, Sophie Heer<sup>2</sup>, Peter Bex<sup>3</sup>, Antoine Coutrot<sup>4</sup>, Melissa Le-Hoa Võ<sup>5</sup>, Isabelle Mareschal<sup>2</sup>  
<sup>1</sup>Jagiellonian University in Krakow (PL), <sup>2</sup>Queen Mary University of London (UK), <sup>3</sup>Northeastern University (US), <sup>4</sup>LIRIS, CNRS, University of Lyon (FR), <sup>5</sup>Goethe University Frankfurt (DE)
- 11 **Objects, Faces and Words Processing in Dyslexic and Typical Readers: Steady-State Visual Evoked Potentials Study**  
Irina Ovchinnikova<sup>1</sup>, H el ene Devillez<sup>2</sup>, Heida Maria Sigurdardottir<sup>1</sup>  
<sup>1</sup>University of Iceland (IS), <sup>2</sup>CEA Grenoble (FR)
- 13 **Are our representations of familiar faces weighted towards our most recent encounters?**  
Sarah Laurence<sup>1</sup>, Camilla D uring, Mike Burton<sup>2</sup>, Mila Mileva<sup>3</sup>  
<sup>1</sup>The Open University (UK), <sup>2</sup>University of York (UK), <sup>3</sup>University of Plymouth (UK)
- 15 **Visual search and stimulus similarity: An empirical study with real images and convolutional neural networks**  
Marco Petilli<sup>1</sup>, Francesca Rodio<sup>2</sup>, Fritz G unther<sup>3</sup>, Marco Marelli<sup>1</sup>  
<sup>1</sup>University of Milano-Bicocca (IT), <sup>2</sup>Institute for Advanced Studies, IUSS (IT), <sup>3</sup>Humboldt University at Berlin (DE)
- 17 **Reducing the Perceptibility of Phase Shifts in Sequences of Visual Stimuli**  
Alexander Bl ock<sup>1</sup>, Tina Truong<sup>1</sup>, Volker Franz<sup>1</sup>  
<sup>1</sup>University of T ubingen (DE)
- 19 **Trial sequences are not effective cues for contextual saccadic adaptation**  
Laurent Madelain<sup>1</sup>, Maxime Martel<sup>1</sup>  
<sup>1</sup>Scalab - University of Lille, CNRS (FR)



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- 21 **Investigating the warping of spatial experience across the blind spot to contrast accounts of consciousness**  
Clement Abbatecola<sup>1</sup>, Bernard Marius 't Hart<sup>2</sup>, Belén M Montabes de la Cruz<sup>1</sup>, Lucy S. Petro<sup>1</sup>, Cyriel M A Pennartz<sup>3</sup>, Giulio Tononi<sup>4</sup>, Karl J. Friston<sup>5</sup>, Umberto Olcese<sup>3</sup>, Srimant P. Tripathy<sup>6</sup>, Patrick Cavanagh<sup>2</sup>, Lars Muckli<sup>1</sup>  
<sup>1</sup>University of Glasgow (UK), <sup>2</sup> York University (CA), <sup>3</sup>University of Amsterdam (NL), <sup>4</sup>University of Wisconsin (US), <sup>5</sup>University College London (UK), <sup>6</sup>University of Bradford (UK)
- 23 **A multiscale model of alpha traveling waves in the visual system**  
Jakob Schwenk<sup>1</sup>, Andrea Alamia<sup>1</sup>  
<sup>1</sup>Cerco Toulouse (FR)
- 25 **Visual Perceptual Learning of a Crowding Task: Effects of ageing**  
Mark Greenlee<sup>1</sup>, Elena von Perponcher<sup>1</sup>, Tina Plank<sup>1</sup>  
<sup>1</sup>Universität Regensburg (DE)
- 27 **Reduced responsibility for task performance: social judgments when drawing in automated environments**  
Sayako Ueda<sup>1,2</sup>  
<sup>1</sup>Riken (JP), <sup>2</sup>Japan Women's University (JP)
- 29 **Postural stability and optic flow sensitivity following sight restoration from congenital bilateral cataracts**  
Irene Senna<sup>1</sup>, Priscilla Balestrucci<sup>2</sup>, Sophia Piller<sup>3</sup>, Dennis Wiebusch<sup>3</sup>, Marc O. Ernst<sup>3</sup>  
<sup>1</sup>Liverpool Hope University (UK), <sup>2</sup>Santa Lucia Foundation IRCCS (IT), <sup>3</sup>Ulm University (DE)
- 31 **Modality switching (and the absence thereof) modulates the redundant signal effect**  
Kalvin Roberts<sup>1</sup>, Ines Jentzsch<sup>1</sup>, Thomas U Otto<sup>1</sup>  
<sup>1</sup>University of St Andrews (UK)
- 33 **Retinocortical function in CRB1-Associated Inherited Retinal Dystrophies**  
Kim Eliane Staeubli<sup>1</sup>, Marc Pabst<sup>1</sup>, Roni Maimon-Mor<sup>1</sup>, Mariya Moosajee<sup>1</sup>, H. Steven Scholte<sup>2</sup>, Tessa Dekker<sup>1</sup>  
<sup>1</sup>University College London (UK), <sup>2</sup>University of Amsterdam (NL)
- 35 **Manipulating the statistics of sensory information in multisensory category learning**  
Rebecca Hirst<sup>1</sup>, Alan O'Dowd<sup>2</sup>, Fiona N Newell<sup>1,3</sup>  
<sup>1</sup>Trinity College Institute of Neuroscience (IE), <sup>2</sup>Trinity College Dublin (IE), <sup>3</sup>New York University Abu Dhabi (AE)
- 37 **Parietal tACS coupled with a visual-attentional training improves lexical access and working memory in dyslexia**  
Francesco De Benedetto<sup>1</sup>, Chiara Turri<sup>2,3</sup>, Giuseppe Di Dona<sup>3,4</sup>, Denisa Adina Zamfira<sup>3,4</sup>, Lisa Venniro<sup>4</sup>, Daniela Perani<sup>3,4</sup>, Luca Ronconi<sup>3,4</sup>  
<sup>1</sup>Irccs San Raffaele Scientific Institute (IT), <sup>2</sup>Maastricht University (NL), <sup>3</sup>Division of Neuroscience, IRCCS San Raffaele Scientific Institute (IT), <sup>4</sup>School of Psychology, Vita-Salute San Raffaele University (IT)
- 39 **Gaze when avoiding obstacles**  
Dimitris Voudouris<sup>1</sup>, Eli Brenner<sup>2</sup>  
<sup>1</sup>Justus Liebig University Giessen (DE), <sup>2</sup>Vrije Universiteit Amsterdam (NL)
- 41 **The influence of exocentric information on egocentric distance estimates for perception and action**  
Chaeun Lim<sup>1</sup>, Dhanraj Vishwanath<sup>2</sup>, Fulvio Domini<sup>1</sup>  
<sup>1</sup>Brown University (US), <sup>2</sup>University of St Andrews (UK)
- 43 **Temporal sensitivity in visual cortex under scotopic conditions**  
Deena Elul<sup>1</sup>, Ayelet McKyton<sup>2,3</sup>, Netta Levin<sup>2,3</sup>  
<sup>1</sup>Hebrew University of Jerusalem (IL), <sup>2</sup>fMRI unit, Department of Neurology, Hadassah Medical Center (IL), <sup>3</sup> Faculty of Medicine, Hebrew University of Jerusalem (IL)



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- 45 **From mice to humans: A cross-species comparison of engagement fluctuations during visual decision-making**  
Camilla Ucheoma Enwereuzor<sup>1</sup>, Philippa Johnson<sup>2</sup>, Sander Nieuwenhuis<sup>2</sup>, Anne E. Urai<sup>2</sup>  
<sup>1</sup>Leiden University (NL), <sup>2</sup>Cognitive Psychology, Leiden University (NL)
- 47 **Creating something from nothing: Symbolic and non-symbolic representations of numerical zero in the human brain**  
Benjy Barnett<sup>1</sup>, Stephen Fleming<sup>1</sup>  
<sup>1</sup>UCL (UK)
- 49 **Measuring the typicality of visual images**  
Filip Děchtěrenko<sup>1</sup>, Jiri Pesek<sup>2</sup>, Niko Busch<sup>3</sup>, Jiri Lukavsky<sup>4</sup>  
<sup>1</sup>Institute of Psychology CAS (CZ), <sup>2</sup>Faculty of Arts, Charles University (CZ), <sup>3</sup>University of Muenster (DE), <sup>4</sup>Institute of Psychology, Czech Academy of Sciences (CZ)
- 51 **People are sensitive to their uniquely patterned retinal input**  
Amit Rawal<sup>1</sup>, Rosanne Rademaker<sup>2</sup>  
<sup>1</sup>Ernst Strüngmann Institute (ESI) (DE), <sup>2</sup>Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society (DE)
- 53 **Facial trustworthiness impressions are dynamically shaped by the spatio-temporal context**  
Fiammetta Marini<sup>1</sup>, Clare A.M. Sutherland<sup>1</sup>, Linda Jeffery<sup>2</sup>, Mauro Manassi<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>Curtin University (AU)
- 55 **Human balancing in VR under the influence of optical flow**  
Kai Streiling<sup>1</sup>, Maximilian Stasica<sup>1</sup>, Alsou Bellmann<sup>1</sup>, André Seyfarth<sup>1</sup>, Loes C. J. van Dam<sup>1</sup>  
<sup>1</sup>Technical University of Darmstadt (DE)
- 57 **Semantic consistency in identifying human actions**  
Filip Rybansky<sup>1</sup>, Sadegh Rahmani<sup>2</sup>, Andrew Gilbert<sup>2</sup>, Frank Guerin<sup>2</sup>, Quoc Vuong<sup>1</sup>  
<sup>1</sup>Newcastle University (UK), <sup>2</sup>University of Surrey (UK)
- 59 **Expanding visual search models: New insights from confidence reports and hybrid search**  
Juan Kamienskowski<sup>1</sup>, Gaston Bujia<sup>1</sup>, Gonzalo Ruarte<sup>1</sup>, Fermin Travi<sup>1</sup>, Guillermo Solovey<sup>1</sup>, Matias J Ison<sup>2</sup>  
<sup>1</sup>University of Buenos Aires (AR), <sup>2</sup>University of Nottingham (UK)
- 61 **Testing Stimulus Generalisation Theory of Impression Formation Within and Across Culture**  
Leoni Shirin Masroujah<sup>1</sup>, Stephanie Wilcke<sup>1</sup>, Linda Jeffery<sup>2</sup>, Brigitte Mostert<sup>2</sup>, Clare Sutherland<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>Curtin University (AU)
- 63 **Contributions of additive and multiplicative noise to lateral and in-depth speed uncertainty**  
Joan Lopez-Moliner<sup>1</sup>  
<sup>1</sup>Universitat de Barcelona (ES)
- 65 **Does object movement or sound affect inter-item perceptual similarity for object categorisation?**  
Martina Seveso<sup>1</sup>, Alan O'Dowd<sup>1</sup>, Rebecca J. Hirst<sup>1</sup>, Fiona N. Newell<sup>1</sup>  
<sup>1</sup>Trinity College Dublin (IE)
- 67 **Understanding preferred distance in human-drone interaction**  
Elisabeth Wögerbauer<sup>1</sup>, Christoph von Castell<sup>1</sup>, Heiko Hecht<sup>1</sup>  
<sup>1</sup>Johannes Gutenberg University of Mainz (DE)
- 69 **Influence of manipulability of objects by hand on evaluation of aesthetic arrangement**  
Makoto Ichikawa<sup>1</sup>, Teruya Hatakeyama<sup>1</sup>  
<sup>1</sup>Chiba University (JP)



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- 71 **Asymmetries in facilitation and interference in holistic face processing**  
 Haiyang Jin<sup>1</sup>, Luyan Ji<sup>2</sup>, Olivia Cheung<sup>3</sup>, Will Hayward<sup>4</sup>  
<sup>1</sup>Zhejiang Sci-Tech University (CN), <sup>2</sup>Guangzhou University (CN), <sup>3</sup>New York University, Abu Dhabi (AE), <sup>4</sup>Lingnan University (HK)
- 73 **Contextual cueing relies on attentional guidance: Evidence from searching and responding fixations in natural scenes**  
Josefine Albert<sup>1</sup>, Werner X. Schneider<sup>1</sup>, Christian H. Poth<sup>1</sup>  
<sup>1</sup>Bielefeld University (DE)
- 75 **Does the feed-forward sweep influence the generation of top-down predictions?**  
Morgan Kikkawa<sup>1</sup>, Daniel Feuerriegel<sup>1</sup>, Marta Garrido<sup>1</sup>  
<sup>1</sup>University of Melbourne (AU)
- 77 **Spatial frequency information processing on the synchrony perception for audiovisual stimuli**  
Yasuhiro Takeshima<sup>1</sup>  
<sup>1</sup>Hosei University (JP)
- 79 **The role of stereopsis in face processing**  
Camille Proszanski<sup>1</sup>, Erez Freud<sup>1</sup>, Laurie M. Wilcox<sup>1</sup>  
<sup>1</sup>York University (CA)
- 81 **Do children benefit from multisensory over intrasensory information in their categorisation of familiar objects?**  
Eimear McKenna<sup>1</sup>, Fiona Newell<sup>1,2</sup>  
<sup>1</sup>Trinity College Dublin (IE), <sup>2</sup> New York University Abu Dhabi (AE)
- 83 **Source estimation of visual spatial attention: a multifocal MEG study**  
Matti Stenroos<sup>1</sup>, Ilmari Kurki<sup>2</sup>, Aapo Hyvärinen<sup>2</sup>, Linda Henriksson<sup>1</sup>  
<sup>1</sup>Aalto University (FI), <sup>2</sup>University of Helsinki (FI)
- 85 **Motion compression by surround motion**  
Isamu Motoyoshi<sup>1</sup>, Hironobu Sano<sup>1</sup>, Ryohei Nakayama<sup>1</sup>  
<sup>1</sup>The University of Tokyo (JP)
- 87 **Characterizing individual differences in selection history bias manifested in goal-directed reaching movements**  
Dietmar Heinke<sup>1</sup>, Fan Zhang<sup>2</sup>, Mukesh Makwana<sup>3</sup>, Joo-Hyun Song<sup>3</sup>  
<sup>1</sup>University Of Birmingham (UK), <sup>2</sup>Xi'an Jiaotong-Liverpool University (CN), <sup>3</sup>Brown University (US)
- 89 **Is saccadic target selection driven by luminance or brightness?**  
Giulia Agosti<sup>1</sup>, Shuchen Guan<sup>1</sup>, Yuan Zhang<sup>1</sup>, Karl Gegenfurtner<sup>1</sup>, Doris Braun<sup>1</sup>  
<sup>1</sup>Justus-Liebig-Universität Gießen (DE)
- 91 **A novel size illusion: The inner tube effect**  
Ian M. Thornton<sup>1</sup>, Sunčica Zdravković<sup>2</sup>, Dejan Todorović<sup>2</sup>  
<sup>1</sup>University of Malta (MT), <sup>2</sup>Laboratory of Experimental Psychology, Department of Psychology, Faculty of Philosophy, University of Novi Sad, Serbia (RS)
- 93 **Gaze-SPV: Enhancing Prosthetic Vision for Object Recognition by including Gaze**  
Ashkan Nejad<sup>1</sup>, Burcu Kucukoglu<sup>2</sup>, Jaap de Ruyter van Steveninck<sup>2</sup>, Sandra Bedrossian<sup>4</sup>, Frans Cornelissen<sup>3</sup>, Marcel van Gerven<sup>2</sup>  
<sup>1</sup>Royal Dutch Visio (NL), <sup>2</sup>Donders Institute for Brain, Cognition, and Behaviour (NL), <sup>3</sup>University Medical Center Groningen (NL), <sup>4</sup>University of Groningen (NL)
- 95 **Scanning in three-dimensional space by visual attention: effects of spatial composition of the background**  
Satoko Ohtsuka<sup>1</sup>  
<sup>1</sup>Saitama Institute of Technology (JP)



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- 97 **Spatiotemporal Models for Multisensory Integration in Mammals**  
Cesare Parise<sup>1</sup>  
<sup>1</sup>University of Liverpool (UK)
- 99 **Visual Attention in Judging TikTok Video Trustworthiness: Effects of Speaker Gender, Veracity, and Communication Modes**  
Zihao Zhao<sup>1</sup>, Shuyi Sun<sup>1</sup>, Hong Xu<sup>1</sup>  
<sup>1</sup>Nanyang Technological University (SG)
- 101 **Attention facilitates three-dimensional shape from shading**  
Joshua Matthews<sup>1</sup>, Debra Mills<sup>1</sup>, Ayelet Sapir<sup>1</sup>  
<sup>1</sup>Bangor University (UK)
- 103 **The development of visual crowding**  
John Greenwood<sup>1</sup>, Marilia Kyprianou<sup>1</sup>, Tessa Dekker<sup>1</sup>  
<sup>1</sup>University College London (UK)
- 105 **The Effectiveness of a Mailed Contrast Sensitivity Test in prioritising cataract patients for surgery**  
Mehal Rathore<sup>1</sup>, Eleonora Bianchi<sup>2</sup>, Peter Reddingius<sup>3</sup>, Dan Lindfield<sup>2</sup>, David P Crabb<sup>3</sup>, Pete R Jones<sup>3</sup>  
<sup>1</sup>City University of London (UK), <sup>2</sup>Glaucoma Services, Royal Surrey County Hospital NHS Foundation Trust (UK), <sup>3</sup>Department of Optometry and Visual Sciences, School of Health & Psychological Sciences, City, University of London (UK)
- 107 **Crossmodal art perception: A behavioral and fMRI study**  
Funda Yilmaz<sup>1</sup>, Tessa van Leeuwen<sup>2</sup>, Umut Güçlü<sup>1</sup>, Yağmur Güçlütürk<sup>1</sup>, Rob van Lier<sup>1</sup>  
<sup>1</sup>Donders Institute for Brain, Cognition, and Behaviour (NL), <sup>2</sup>Tilburg School of Humanities and Digital Sciences (NL)
- 109 **Search asymmetries for dynamic faces**  
Zeynep Karagül<sup>1</sup>, Cansu Kazan<sup>2</sup>, Bilge Sayim<sup>3</sup>, Nihan Alp<sup>1</sup>  
<sup>1</sup>Sabancı University (TR), <sup>2</sup>SISSA (IT), <sup>3</sup>University of Lille (FR)
- 111 **Hand-dependent influence of grasp planning on visual processing**  
Yihui Zhang<sup>1</sup>, Jie Gao<sup>1</sup>, Zhiqing Deng<sup>1</sup>, Biao Han<sup>1</sup>, Juan Chen  
<sup>1</sup>South China Normal University (CN)
- 113 **The Neural Underpinnings of Aphantasia: A case study of identical twins**  
Emma Megla<sup>1</sup>, Deepasri Prasad<sup>2</sup>, Wilma A. Bainbridge<sup>1</sup>  
<sup>1</sup>University of Chicago (US), <sup>2</sup>Dartmouth College (US)
- 115 **Natural scene processing based on texture information: psychophysics and EEG**  
Taiki Orima<sup>1</sup>, Fumiya Kurosawa<sup>2</sup>, Isamu Motoyoshi<sup>2</sup>  
<sup>1</sup>CiNet, NICT (JP), <sup>2</sup>The University of Tokyo (JP)
- 117 **Mapping idiosyncratic facial expression of emotion recognition: from eye movements to neural responses**  
Fanny Poncet<sup>1</sup>, Lisa Stacchi<sup>1</sup>, Roberto Caldara<sup>1</sup>  
<sup>1</sup>University of Fribourg (CH)
- 119 **The Role of Cross-Area and Within-Area Temporal Correlations in Visual Segmentation**  
Yen-Ju Chen<sup>1</sup>, Zitang Sun<sup>1</sup>, Shin'ya Nishida<sup>1</sup>  
<sup>1</sup>Graduate School of Informatics, Kyoto University (JP)
- 121 **Seeing speech: Probing the cerebral mechanisms of Cued Speech perception**  
Annahita Sarré<sup>1</sup>, Laurent Cohen<sup>1</sup>  
<sup>1</sup>Paris Brain Institute (ICM) (FR)



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- 123 **Detection of visual field defects due to acquired brain injury with continuous visual stimulus tracking**  
Minke De Boer<sup>1</sup>, Anne Vrijling<sup>1</sup>, Remco Renken<sup>1</sup>, Jan-Bernard Marsman<sup>1</sup>, Joost Heutink<sup>2</sup>, Frans Cornelissen<sup>1</sup>, Nomdo Jansonius<sup>1</sup>  
<sup>1</sup>University Medical Center Groningen (NL), <sup>2</sup>Royal Dutch Visio (NL)
- 125 **Can we transfer what we know about efficiency of the visual system to AI algorithms?**  
Xavier Otazu<sup>1</sup>, Joan Vila<sup>2</sup>, Alejandro Parraga<sup>1</sup>, Olivier Penacchio<sup>2</sup>  
<sup>1</sup>Computer Vision Center (ES), <sup>2</sup>Universitat Autònoma de Barcelona (ES)
- 127 **The impact of changes in appearance and context on face learning**  
Kevin Nguy<sup>1</sup>, Christel Devue<sup>2</sup>  
<sup>1</sup>PsyNCog Lab - University of Liege (BE), <sup>2</sup>Department of Psychology - University of Liege (BE)
- 129 **Orientation tuning of face processing in human V1**  
Mrittika Dey<sup>1</sup>, Jolien Schuurmans<sup>1</sup>, Valerie Goffaux<sup>1</sup>  
<sup>1</sup>UCLouvain (BE)
- 131 **Extraction of optimally-informative features in fast vision: an ERPs study of C1 component**  
Serena Castellotti<sup>1</sup>, Giacomo Mazzotta<sup>2</sup>, Alessandro Benedetto<sup>2</sup>, Maria Michela Del Viva<sup>2</sup>  
<sup>1</sup>University of Pisa (IT), <sup>2</sup>University of Florence (IT)
- 133 **Hypothalamic Syndrome Impairs the Recognition of Aversive Static Facial Expressions of Emotion**  
Camille Saumure<sup>1</sup>, Anne-Raphaëlle Richoz<sup>1</sup>, Pauline Schaller<sup>1</sup>, Marie Chardonnens<sup>1</sup>, Virginie Descoux<sup>2</sup>, Roberto Caldara<sup>1</sup>  
<sup>1</sup>University of Fribourg (CH), <sup>2</sup>University of Geneva (CH)
- 135 **Selective Attention by Coherence Movement Unaffected by Auditory Divided Attention Strategy**  
Marcelo Costa<sup>1</sup>, Victoria Menegon<sup>1</sup>, Leonardo Henriques<sup>1</sup>  
<sup>1</sup>University of São Paulo (BR)
- 137 **Abrupt Learning: How Does the Brain Decide What and When to Learn?**  
Busra Tugce Gurbuz<sup>1,2</sup>, Amanda Pruss<sup>1</sup>, Nishanth Anand<sup>1,2</sup>, Suresh Krishna<sup>1</sup>, Eilif Muller<sup>3</sup>, Christopher Pack<sup>1</sup>  
<sup>1</sup>McGill University (CA), <sup>2</sup>Mila - Quebec AI Institute (CA), <sup>3</sup>Université de Montréal (CA)
- 139 **Beating the iconic Arcade Game Pong – How Aging Impacts Predictive Gaze and Interception Performance**  
Leonard Gerharz<sup>1</sup>, Anna Schroeger<sup>1</sup>, Dimitris Voudouris<sup>1</sup>  
<sup>1</sup>Justus-Liebig-Universität Gießen (DE)
- 141 **Synesthetic Color Distribution in Color Space: Comparative Analysis among Grapheme-Color Synesthetes in Taiwan and Japan**  
Jun Saiki<sup>1</sup>, Daisuke Hamada<sup>2</sup>, Chien-Chun Yang<sup>3</sup>, Huan-Wei Lin<sup>3</sup>, Su-Ling Yeh<sup>3</sup>  
<sup>1</sup>Kyoto University (JP), <sup>2</sup>Otemae University (JP), <sup>3</sup>National Taiwan University (TW)
- 143 **Combination of eye-tracking and performance data to extract situational awareness profiles**  
Gaëlle Nicolas<sup>1</sup>, Yasmina Kebir<sup>1,2,3</sup>, Samuel Ferreira Da Silva<sup>1,2</sup>, Pierre Chevrier<sup>1,2</sup>, Jérôme Dinet<sup>1,3</sup>  
<sup>1</sup>Chaire Behaviour (FR), <sup>2</sup>ENIM (FR), <sup>3</sup>LPN (FR)
- 145 **Representations of unfamiliar objects before and after movement**  
Casey Becker<sup>1</sup>, Astrid Zeman<sup>1</sup>  
<sup>1</sup>University of Melbourne (AU)



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- 147 **Visual field position and familiarity effects under interocular suppression**  
 Mengdie Li<sup>1</sup>, Weina Zhu<sup>2</sup>, Jan Drewes<sup>1</sup>  
<sup>1</sup>Sichuan Normal University (CN), <sup>2</sup>Yunnan University (CN)
- 149 **How Exposure to Diverse Faces Shapes the Computational Mechanism of Face Perception**  
 Elaheh Akbarifathkouhi<sup>1</sup>, Katharina Dobs<sup>1</sup>  
<sup>1</sup>Justus Liebig University Giessen (DE)
- 151 **Capturing Aesthetic Experience by verbal expressions: Identifying core concept variables from natural language processing**  
 Marella Campagna<sup>1</sup>, Claus-Christian Carbon<sup>2</sup>, Alexander Pastukhov<sup>3</sup>  
<sup>1</sup>Bamberg University (DE), <sup>2</sup>Bamberg Graduate School of Affective and Cognitive Sciences (BaGrACS), Bamberg, Bavaria (DE), <sup>3</sup>Research Group EPÆG (Ergonomics, Psychological Æsthetics, Gestalt), Bamberg University, Bavaria (DE)
- 153 **Computational mechanisms underlying contextual and structural biases in time perception**  
 Laetitia Grabot<sup>1</sup>, Anne Giersch<sup>2</sup>, Pascal Mamassian<sup>1</sup>  
<sup>1</sup>CNRS/ENS-PSL (FR), <sup>2</sup>Strasbourg University (FR)
- 155 **Influence of Aging on Vection**  
 Kayoko Murata<sup>1</sup>, Makoto Ichikawa<sup>2</sup>  
<sup>1</sup>Kobe Gakuin University (JP), <sup>2</sup>Chiba University (JP)
- 157 **Target-irrelevant features can affect behaviour in a visual foraging paradigm**  
 Anna Hughes<sup>1</sup>, Elliot Richardson<sup>1</sup>, Katie Quinn<sup>1</sup>, Alasdair Clarke<sup>1</sup>  
<sup>1</sup>University of Essex (UK)

## Symposium 5

### Gaze patterns in natural behaviour

10.30–12.00 (Room 1A)

#### Age-related changes in eye movements during manual tasks

Dimitris Voudouris<sup>1</sup>, Leonard Gerharz

<sup>1</sup>Justus Liebig University Giessen (DE)

#### Coordination of bimanual movements when acting on separate objects is shaped by competition for gaze

Jolande Fooker<sup>1</sup>, Tianyao Zhu<sup>1</sup>, Jason P Gallivan<sup>1</sup>, J Randall Flanagan<sup>1</sup>

<sup>1</sup>Queen's University (CA)

#### Exploring everyday actions: Gaze behaviour during stair climbing

Andrea Ghiani<sup>1</sup>, Eli Brenner<sup>1</sup>

<sup>1</sup>Vrije Universiteit Amsterdam (NL)

#### On the role of eye and head movements for walk transitions in real world scenes

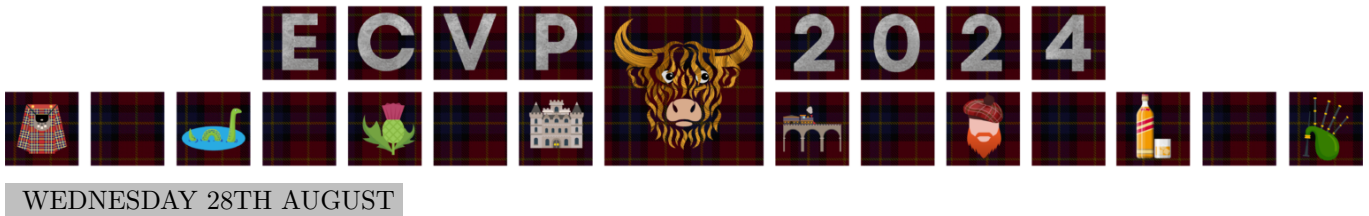
Christiane Wiebel-Herboth<sup>1</sup>, Petros Georgiadis<sup>2</sup>, Martina Hasenjaeger<sup>1</sup>

<sup>1</sup>Honda Research Institute Europe GmbH (DE), <sup>2</sup>Justus-Liebig Universitaet Giessen (DE)

#### Gaze Strategies in High-speed Racing

Otto Lappi<sup>1</sup>

<sup>1</sup>University of Helsinki (FI)



## Talk Session 9

### Objects & Scene Perception

10.30–12.00 (Room 1B)

- 10.30 **Mapping Neural Activity During Free Viewing with Concurrent MEG and Eye Movement Recordings**  
Matias Ison<sup>1</sup>, Joaquin Gonzalez<sup>2</sup>, Damian Care<sup>2</sup>, Markus Bauer<sup>1</sup>, Anthony Ries<sup>3</sup>, Juan Kamienskowski<sup>2</sup>  
<sup>1</sup>University of Nottingham (UK), <sup>2</sup>University of Buenos Aires (AR), <sup>3</sup>U.S. Army Research Laboratory (US)
- 10.45 **Assessing the role of inter-object relations in visual cortical responses to natural scenes**  
Giacomo Aldegheri<sup>1</sup>, Steven Scholte<sup>2</sup>, Iris Groen<sup>2</sup>  
<sup>1</sup>Justus Liebig University (DE), <sup>2</sup>University of Amsterdam (NL)
- 11.00 **Understanding the time course and spatial biases of natural scene segmentation**  
Ruben Coen-Cagli<sup>1</sup>, Jonathan Vacher<sup>2</sup>, Dennis Cregin<sup>1</sup>, Tringa Lecaj<sup>1</sup>, Sophie Molholm<sup>1</sup>, Pascal Mamassian<sup>3</sup>  
<sup>1</sup>Albert Einstein College of Medicine (US), <sup>2</sup>Universite Cite Paris (FR), <sup>3</sup>ENS Paris (FR)
- 11.15 **Bedazzled by dazzle camouflage? A new experiment, and critical reappraisal of a 105-year-old data set**  
Timothy Meese<sup>1</sup>, Sam Strong<sup>1</sup>  
<sup>1</sup>Aston University (UK)
- 11.30 **The role of executive functions in organized foraging**  
Inga María Ólafsdóttir<sup>1</sup>  
<sup>1</sup>Reykjavik University (IS)
- 11.45 **A new psychophysiological method to assess automatic visual processing of task-irrelevant global and local shapes**  
Ann-Kathrin Beck<sup>1</sup>, Thomas Lachmann<sup>1</sup>, Motohiro Kimura<sup>2</sup>  
<sup>1</sup>University of Kaiserslautern-Landau (DE), <sup>2</sup>National Institute of Advanced Industrial Science and Technology (AIST) (JP)

## Symposium 6

### Reproducing reality: What is needed to build displays that pass the "visual Turing test"?

10.30–12.00 (Room 3)

**Building displays that reproduce reality: why it is straightforward in principle but difficult in practice**

Simon Watt<sup>1</sup>  
<sup>1</sup>Bangor University (UK)

**Reproducing accurate colour in high dynamic range**

Maliha Ashraf<sup>1</sup>  
<sup>1</sup>University of Cambridge (UK)

**Immersive reality: effects and uses of VR in perception**

Sandra Malpica<sup>1</sup>  
<sup>1</sup>Universidad de Zaragoza (ES)





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**The value of synthetic image statistics for understanding the structure and perception of natural scenes**

Paul Hibbard<sup>1</sup>

<sup>1</sup>University of Stirling (UK)

**Setting requirements to reproduce reality: A controllable AR/VR headset simulator for active observer psychophysics**

Phillip Guan<sup>1</sup>

<sup>1</sup>Reality Labs Research, Meta (US)

## Symposium 7

**Spanning the space of science: from cones to colour applications. A symposium in honour of Sophie Wuerger**

**13.30–15.00 (Room 1A)**

**Space, Time, and Color in Human Vision**

Andrew Watson<sup>1</sup>

<sup>1</sup>Apple (US)

**Contrast vision at and above threshold**

Maliha Ashraf<sup>1</sup>

<sup>1</sup>University of Cambridge (UK)

**A new spectra database of human skin colour**

Kaida Xiao<sup>1</sup>, Yan Lu<sup>2</sup>, Michael Pointer<sup>1</sup>, Sophie Wuerger<sup>3</sup>

<sup>1</sup>University of Leeds (UK), <sup>2</sup>University of Manchester (UK), <sup>3</sup>University of Liverpool (UK)

**Colour in motion: global motion filters, grouping-by-colour and attentional selection**

Jasna Martinovic<sup>1</sup>

<sup>1</sup>University of Edinburgh (UK)

**Principled approaches towards a better understanding of multisensory perception**

Georg Meyer<sup>1</sup>

<sup>1</sup>University of Liverpool (UK)

## Talk Session 10

**Spatial Vision**

**13.30–15.00 (Room 1B)**

- 13.30 **The CRIP effect: patterns in central vision interfere with perception of patterns in the periphery**  
Carolina Maria Oletto<sup>1</sup>, Giulio Contemori<sup>1</sup>, Luca Battaglini<sup>1</sup>, Micheal Herzog<sup>2</sup>, Marco Bertamini<sup>1</sup>  
<sup>1</sup>University of Padua (IT), <sup>2</sup>École Polytechnique Fédérale de Lausanne (EPFL) (CH)
- 13.45 **From Curvature to Contour: Hierarchical Representations of Contour Shapes in Terms of Constant Curvature Segments**  
Nicholas Baker<sup>1</sup>, Doug Addleman<sup>2</sup>, Kevin Lande<sup>3</sup>, Denis Buehler<sup>4</sup>, Cameron Pham<sup>1</sup>, Silvia Rufus<sup>1</sup>  
<sup>1</sup>Loyola University Chicago (US), <sup>2</sup>Gonzaga University (US), <sup>3</sup>York University (CA), <sup>4</sup>Ecole Normale Supérieure (FR)



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- 14.00 **Individuation and Pooling of information over different temporal scales**  
Yaffa Yeshurun<sup>1</sup>, Ilanit Hochmiz<sup>1</sup>, Amit Yashar<sup>1</sup>, Ahmad Abu-Akel<sup>1</sup>  
<sup>1</sup>University of Haifa (IL)
- 14.15 **Crowding considered as adaptive spatial integration**  
David Burr<sup>1</sup>, Guido Marco Cicchini<sup>2</sup>  
<sup>1</sup>University of Florence (IT), <sup>2</sup>CNR, Pisa (IT)
- 14.30 **Revealing Developmental and Cross-Species Asymmetries in Visual Performance**  
Marisa Carrasco<sup>1</sup>, Lynne Kiorpes<sup>2</sup>, Caroline Myers<sup>3</sup>, Mariel Roberts<sup>4</sup>, Ekin Tuncok<sup>2</sup>  
<sup>1</sup>New York University (US), <sup>2</sup>NYU (US), <sup>3</sup>Johns Hopkins University (US), <sup>4</sup>Barnard College (US)
- 14.45 **Expectations modulate the allocation of attention to familiar but not unfamiliar objects**  
Rama Chakravarthi<sup>1</sup>, Josephine Reuther<sup>2</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>Department of Experimental Psychology, University of Gottingen (DE)

## Talk Session 11

### Virtual Reality

13.30–15.00 (Room 3)

- 13.30 **Memory limits on active visual search for coloured targets in virtual outdoor environments**  
Yan Lu<sup>1</sup>, David H Foster<sup>1</sup>, Boris Otkhmezuri<sup>1</sup>, Paul Warren<sup>1</sup>  
<sup>1</sup>University of Manchester (UK)
- 13.45 **Where is the door? Can people keep track of one environment while immersed in another?**  
Meaghan McManus<sup>1</sup>, Franziska Seifert<sup>1</sup>, Immo Schütz<sup>1</sup>, Katja Fiehler<sup>1</sup>  
<sup>1</sup>Justus Liebig University Giessen (DE)
- 14.00 **Relative walking speeds of neighboring pedestrians capture visual attention and influence room evacuation behavior**  
Kristen Macuga<sup>1</sup>, Alexander Boone<sup>2</sup>, Bertrand Lemasson<sup>3</sup>  
<sup>1</sup>Oregon State University (US), <sup>2</sup>Pacific Science & Engineering Group, Inc. (US), <sup>3</sup>U.S. Army Engineer Research and Development Center (US)
- 14.15 **Avatars with faces of real people: State of the art in experimental psychology**  
Markus Bindemann<sup>1</sup>, Kyara Nasser Oesterreich<sup>1</sup>, Rachael Taylor<sup>1</sup>, Mike Burton<sup>2</sup>  
<sup>1</sup>University of Kent (UK), <sup>2</sup>University of York (UK)
- 14.30 **Best practices of mobile eye tracking in outside urban environments**  
Debora Nolte<sup>1</sup>, Jasmin L. Walter<sup>1</sup>, Paula Vondrlík<sup>1</sup>, Lane von Bassewitz<sup>1</sup>, Louisa Maubach<sup>1</sup>, Milad Rouygari<sup>1</sup>, Jonas Scherer<sup>2</sup>, Martin M. Müller<sup>2</sup>, Peter König<sup>1,3</sup>  
<sup>1</sup>Universität Osnabrück (DE), <sup>2</sup>University Bielefeld (DE), <sup>3</sup>University Medical Center Hamburg-Eppendorf (DE)
- 14.45 **Comparing gaze behavior during free spatial exploration in virtual reality and the real world**  
Jasmin L. Walter<sup>1</sup>, Debora Nolte<sup>1</sup>, Paula Vondrlík<sup>1</sup>, Lane von Bassewitz<sup>1</sup>, Louisa Maubach<sup>1</sup>, Milad Rouygari<sup>1</sup>, Jonas Scherer<sup>2</sup>, Martin M. Müller<sup>2</sup>, Peter König<sup>1</sup>  
<sup>1</sup>University of Osnabrück (DE), <sup>2</sup>University Bielefeld (DE)



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## Poster Session 6 [even numbers]

15.00–16.30 (Hall B)

- 2 **Visual Memory of Body Postures is Biased by Distinct Sources of Knowledge**  
Qiu Han<sup>1</sup>, Marco Gandolfo<sup>1</sup>, Marius Peelen<sup>1</sup>  
<sup>1</sup>Donders Institute for Brain, Cognition, and Behaviour (NL)
- 4 **Investigation of the effect of subjective visual awareness on audio-visual interactions under continuous flash suppression**  
Sanni Ahonen<sup>1</sup>, Thomas Otto<sup>2</sup>, Ramakrishna Chakravarthi<sup>1</sup>, Arash Sahraie<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>University of St Andrews (UK)
- 6 **Similar area of direct looking and direct pointing**  
Linda Linke<sup>1</sup>, Gernot Horstmann<sup>1</sup>  
<sup>1</sup>Bielefeld University (DE)
- 8 **Signal detection under spatial uncertainty**  
Alasdair Clarke<sup>1</sup>, Micha Elsner<sup>2</sup>, Amelia Hunt<sup>3</sup>  
<sup>1</sup>University of Essex (UK), <sup>2</sup>The Ohio State University (US), <sup>3</sup>University of Aberdeen (UK)
- 10 **Looking with or without seeing in an individual with macular degeneration impairing central vision**  
Li Zhaoping<sup>1,2</sup>  
<sup>1</sup>Max-planck-institute for Biological Cybernetics (DE), <sup>2</sup>University of Tuebingen (DE)
- 12 **Sense of agency at a gaze-contingent display with jittery temporal delay**  
Junhui Kim<sup>1</sup>, Takako Yoshida<sup>1</sup>  
<sup>1</sup>Tokyo Institute of Technology (JP)
- 14 **The effects of serial dependence on the variability of perceptual estimates: A meta-analysis**  
Ayberk Ozkiri<sup>1</sup>, Andrey Chetverikov<sup>2</sup>, David Pascucci<sup>1</sup>  
<sup>1</sup>EPFL (CH), <sup>2</sup>University of Bergen (NO)
- 16 **The Role of Neural Oscillations and Aperiodic EEG Signals in Contrast Detection**  
Henry Beale<sup>1</sup>, Jason Mattingley<sup>1</sup>, Anthony Harris<sup>1</sup>  
<sup>1</sup>The University of Queensland (AU)
- 18 **Navigational Affordance is related to Occipital Place Area and MEG signals between 100 and 200ms**  
Rebecca Lowndes<sup>1</sup>, Richard Aveyard<sup>1</sup>, Catriona Scrivener<sup>2</sup>, Elisa Zamboni<sup>3</sup>, Antony Morland<sup>1</sup>, Edward Silson<sup>2</sup>  
<sup>1</sup>University of York (UK), <sup>2</sup>University of Edinburgh (UK), <sup>3</sup>University of Nottingham (UK)
- 20 **Measuring the speed of action recognition**  
Filip Durovic<sup>1</sup>, Angelika Lingnau<sup>2</sup>, Paul Downing<sup>1</sup>  
<sup>1</sup>Bangor University (UK), <sup>2</sup>University of Regensburg (DE)
- 22 **Examination of the effect of aspect ratios on the letter-row tilt illusion in non-staircase stimuli**  
Yukyu Araragi<sup>1</sup>, Hiroyuki Ito<sup>2</sup>  
<sup>1</sup>Shimane University (JP), <sup>2</sup>Kyushu University (JP)
- 24 **Effects of object-based predictions and prediction robustness on subjective visual perception**  
Clara Carrez-Corral<sup>1</sup>, Pauline Rossel<sup>1</sup>, Louise Kauffmann<sup>1</sup>, Carole Peyrin<sup>1</sup>  
<sup>1</sup>LPNC - Université Grenoble Alpes (FR)



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- 26 **The impact of sensory cues on multiple object tracking performance: behavioural and neural correlates**  
Polly Atkins<sup>1</sup>, Timothy Hodgson<sup>1</sup>, Patrick Dickinson<sup>1</sup>, Kieran Hicks<sup>2</sup>, Julia Föcker<sup>1</sup>  
<sup>1</sup>University of Lincoln (UK), <sup>2</sup>University of Staffordshire (UK)
- 28 **Electrocardiogram (ECG) interpretation improves following priming with normal ECGs: An eye-tracking study among medical students**  
Jennifer Edwards<sup>1</sup>, W Joseph MacInnes<sup>1</sup>, Alistair Gallagher<sup>1</sup>  
<sup>1</sup>Swansea University (UK)
- 30 **A Fast Parafoveal Preview Effect for Face Gestalt but not Identity**  
Michele Deodato<sup>1</sup>, Tran Nguyen<sup>1</sup>, David Melcher<sup>1</sup>  
<sup>1</sup>New York University Abu Dhabi (AE)
- 32 **Spontaneous and voluntary blinks interact differentially with perceptual alternation in multistable perception**  
Ryoya Sato<sup>1</sup>, Eiji Kimura<sup>2</sup>  
<sup>1</sup>Graduate School of Science and Engineering, Chiba University (JP), <sup>2</sup>Department of Psychology, Graduate School of Humanities, Chiba University (JP)
- 34 **Proportional Rate Control: A Strategy for Both Patient and Impatient Drivers**  
Didem Kadihasanoglu<sup>1</sup>, Behic Bugra Biber<sup>1</sup>, Rabia Barin Adsiz<sup>1</sup>, Kayra Kaan Donmez<sup>1</sup>, Xiaoye Michael Wang<sup>2</sup>, Geoffrey P. Bingham<sup>3</sup>  
<sup>1</sup>TOBB University of Economics and Technology (TR), <sup>2</sup>University of Toronto (CA), <sup>3</sup>Indiana University, Bloomington (US)
- 36 **Altered learning of stimulus distribution in individuals with autism**  
Zainab Naaran Saleh<sup>1</sup>, Amit Yashar<sup>1</sup>  
<sup>1</sup>University of Haifa (IL)
- 38 **Use of Volumetric Shading Information in Human and Artificial Object Recognition**  
Luke Baumel<sup>1</sup>, Mikayla Cutler<sup>1</sup>, Matthew Hyatt<sup>1</sup>, Joseph Tocco<sup>1</sup>, William Friebe<sup>1</sup>, George K. Thiruvathukal<sup>1</sup>, Nicholas Baker<sup>1</sup>  
<sup>1</sup>Loyola University Chicago (US)
- 40 **Gaze Behavior in Older Adults: A Comparative Study of Mild Cognitive Impairment in Naturalistic Tasks**  
Alexandra Wolf<sup>1</sup>  
<sup>1</sup>Cognitive Behavioral Assistive Technology Team, RIKEN AIP (JP)
- 42 **Task demands, motor costs, and motivation interdependently determine haptic exploration duration**  
Michaela Jeschke<sup>1</sup>, Anna Metzger<sup>2</sup>, Knut Drewing<sup>1</sup>  
<sup>1</sup>Justus-Liebig University Giessen (DE), <sup>2</sup>Bournemouth University (UK)
- 44 **No Evidence for Reduced Susceptibility to the Ebbinghaus Illusion in Children Across Different Methods**  
Radoslaw Wincza<sup>1</sup>, Calum Hartley<sup>1</sup>, Sally Linkenauger<sup>1</sup>, Trevor Crawford<sup>1</sup>  
<sup>1</sup>Lancaster University (UK)
- 46 **Proactive distractor suppression in early visual cortex**  
David Richter<sup>1</sup>, Dirk van Moorselaar<sup>2</sup>, Jan Theeuwes<sup>2</sup>  
<sup>1</sup>CIMCYC, University of Granada (ES), <sup>2</sup>Vrije Universiteit Amsterdam (NL)
- 48 **Protracted development of gaze behaviour**  
Marcel Linka<sup>1</sup>, Harun Karimpur<sup>1</sup>, Benjamin de Haas  
<sup>1</sup>Justus-Liebig-Universität Gießen (DE)
- 50 **Bifocal Alpha-band tACS Modulates Temporal Sampling in Visual Perception**  
Alessia Santoni<sup>1</sup>, Giuseppe Di Dona<sup>1</sup>, Riccardo Gironi<sup>1</sup>, Luca Battaglini<sup>2</sup>, Luca Ronconi<sup>1</sup>  
<sup>1</sup>Vita-Salute San Raffaele University (IT), <sup>2</sup>University of Padua (IT)



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- 52 **Categorization demands modulate neural representations**  
Marlene Poncet<sup>1</sup>, Paraskevi Batziou<sup>2</sup>, Ramakrishna Chakravarthi<sup>2</sup>  
<sup>1</sup>University of Essex (UK), <sup>2</sup>University of Aberdeen (UK)
- 54 **Predictive Control in Interception Tasks: Understanding the Angle-of-Approach and Curveball Effects**  
Borja Aguado Ramirez<sup>1,3</sup>, Juliane Bechert<sup>3</sup>, Serkan Besim<sup>3</sup>, Lucas Dysli<sup>3</sup>, Maximilian Goschy<sup>3</sup>,  
 Lena Schäfer<sup>3</sup>, Loes van Dam<sup>2,3,4</sup>  
<sup>1</sup>Universitat De Vic - Universitat Central De Catalunya (ES), <sup>2</sup>Department of Psychology, University of Essex, Colchester (UK), <sup>3</sup>Technical University of Darmstadt (TU Darmstadt), Department of Human Sciences, Institute for Psychology / Centre for Cognitive Science (DE), <sup>4</sup>Center for Mind, Brain and Behavior, University of Marburg and Justus Liebig University Giessen (DE)
- 56 **Circular shape distortion illusions caused by adaptation of curvature detectors**  
Kenzo Sakurai<sup>1</sup>  
<sup>1</sup>Tohoku Gakuin University (JP)
- 58 **Enhanced illusory color signals in individuals with reduced chromatic sensitivity**  
Paolo Antonino Grasso<sup>1</sup>, Federico Tommasi<sup>1</sup>, Rebecca Franconi<sup>1</sup>, Linda Favillini<sup>1</sup>, Elisabetta Baldanzi<sup>1</sup>, Massimo Gurioli<sup>1</sup>, Alessandro Farini<sup>1</sup>  
<sup>1</sup>University Of Florence (IT)
- 60 **Effects of temporal delay on task performance and sense of agency in continuous tracking task**  
Yasunaga Monno<sup>1</sup>, Junhui Kim<sup>1</sup>, Takako Yoshida<sup>1</sup>  
<sup>1</sup>Tokyo Institute of Technology (JP)
- 62 **Temporal adaptation and savings to constant and varying visual feedback delays in a driving simulator**  
Sam Beech<sup>1</sup>, Iain Gilchrist<sup>1</sup>, Danae Stanton Fraser<sup>1</sup>  
<sup>1</sup>The University of Bristol (UK)
- 64 **EEG responses to the numerosity of objects in partially occluded and uncovered scenes**  
Cemre Baykan<sup>1</sup>, Alexander, C. Schütz<sup>1</sup>  
<sup>1</sup>Philipps-Universität Marburg (DE)
- 66 **From fixation to action: the interplay of task demands and object properties in multi-object selection**  
Parishad Bromandnia<sup>1</sup>, Jan Tünnermann<sup>1</sup>, Anna Schubö<sup>1</sup>  
<sup>1</sup>Philipps-Universität Marburg (DE)
- 68 **Supervised and unsupervised use of eye movement training in rehabilitation of hemianopia**  
 Valentina Varalta<sup>2</sup>, Samuel Johnson<sup>1</sup>, Nicola Smania<sup>2</sup>, Arash Sahraie<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>University of Verona (IT)
- 70 **Optimal visual gain for walking through virtual environments depends on the field of view**  
Patricia R. Mueller<sup>1</sup>, Wolfgang Einhäuser<sup>1</sup>  
<sup>1</sup>Chemnitz University of Technology (DE)
- 72 **Simultaneous regularity contrast and luminance polarity**  
Martin Sellier Silva<sup>1</sup>, Frederick Kingdom<sup>1</sup>  
<sup>1</sup>McGill University (CA)
- 74 **Investigating numerical signatures with hierarchical Navon stimuli**  
Valter Prpic<sup>1</sup>, Arianna Felisatti<sup>2</sup>, David Aagten-Murphy<sup>3</sup>, Luisa Lugli<sup>1</sup>, Martin H. Fischer<sup>4</sup>  
<sup>1</sup>University of Bologna (IT), <sup>2</sup>University of Padova (IT), <sup>3</sup>University of Cambridge (UK), <sup>4</sup>University of Potsdam (DE)



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- 76 **Does the Radial Bias influence fast saccades towards Faces**  
Marius Grandjean<sup>1</sup>, Louise Kauffmann<sup>2</sup>, Clément Letesson<sup>1</sup>, Ece Kurnaz<sup>1</sup>, Alexia Roux-Sibilon, Valérie Goffaux  
<sup>1</sup>UCLouvain (BE), <sup>2</sup>Univ. Grenoble Alpes (FR)
- 78 **Unraveling the Monochrome Dunhuang Murals: Visual Imagery for Deeper Understanding**  
Junlin Jiang<sup>1</sup>, Rongrong Chen<sup>2</sup>  
<sup>1</sup>Beijing Normal University-Hong Kong Baptist University United International College (UIC) (CN), <sup>2</sup>Guangdong Provincial Key Laboratory IRADS, BNU-HKBU United International College, Zhuhai (CN)
- 80 **Shattering the Ring: Statistical Learning Re-Shapes the Center-Surround Inhibition of the Visuospatial Attentional Focus**  
Andrea Massironi<sup>1</sup>, Giulia Spinelli<sup>2</sup>, Carlotta Lega<sup>3</sup>, Emanuela Bricolo<sup>1</sup>, Luca Ronconi<sup>4</sup>  
<sup>1</sup>University of Milano-Bicocca (IT), <sup>2</sup>Department of Psychology, University of Milano-Bicocca (IT), <sup>3</sup>University of Pavia (IT), <sup>4</sup>Vita-Salute San Raffaele University (IT)
- 82 **Mixed Percepts During Binocular Rivalry Reflect Increased Cortical Inhibition According to Converging Physiological Evidence**  
Janine Mendola<sup>1</sup>, Eric Mokri<sup>1</sup>, Abigail Wolfensohn<sup>1</sup>, Jason Da Silva Castanheira<sup>1</sup>  
<sup>1</sup>McGill University (CA)
- 84 **Effect of element-lifetime and stimulus-duration on local and global motion processing: An equivalent noise study**  
Balaje Vivekanandan<sup>1</sup>, Steven C. Dakin<sup>1</sup>  
<sup>1</sup>The University of Auckland (NZ)
- 86 **Major discrepancies in human and automated emotion classification (AFFDEX) for naturalistic facial expressions**  
Amy Dawel<sup>1</sup>, Paige Mewton<sup>1</sup>, Tayla Williams<sup>1</sup>, Eva Krumhuber<sup>2</sup>  
<sup>1</sup>Australian National University (AU), <sup>2</sup>University College London (UK)
- 88 **Overwriting Serial-Dependence: Learning Novel Cues to Update Internal Prediction Models of Object Weight**  
Olaf Kristiansen<sup>1</sup>, Meike Scheller<sup>1</sup>, Naomi Lau<sup>1</sup>, Sarah Utting<sup>1</sup>, Marko Nardini<sup>1</sup>  
<sup>1</sup>Durham University (UK)
- 90 **Visual perspective taking towards humans and social robots in a face-to-face interaction**  
Joel Currie<sup>1</sup>, Katrina McDonough<sup>2</sup>, Agnieszka Wykowska<sup>3</sup>, Maria Elena Giannaccini<sup>1</sup>, Patric Bach<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK), <sup>2</sup>University of East Anglia (UK), <sup>3</sup>Istituto Italiano di Tecnologia (IT)
- 92 **Motion Dazzle and the Motion-Induced Position Shift on cursor representation: behavioral effects in pointing movements**  
Celine Honekamp<sup>1</sup>, Loes C.J. van Dam<sup>1</sup>  
<sup>1</sup>Technical University of Darmstadt (DE)
- 94 **Multimodal Person Evaluation: First Impressions from Faces, Voices and Names**  
Mila Mileva<sup>1</sup>  
<sup>1</sup>University of Plymouth (UK)
- 96 **Pupillometry as a no-report measure of perturbation detection in grasping**  
Carl Müller<sup>1</sup>, Karl Kopiske<sup>1</sup>, Luise Pfalz<sup>1</sup>  
<sup>1</sup>Chemnitz University of Technology (DE)
- 98 **Decoding associative learning in human**  
Samy Chikhi<sup>1</sup>, Qing Yang<sup>1</sup>, Thérèse Collins<sup>1</sup>  
<sup>1</sup>Integrative Neuroscience and Cognition Center (FR)



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- 100 **Testing the color name of #TheDress in DNNs with various levels of blue bias**  
Ichiro Kuriki<sup>1</sup>, Hikari Saito<sup>1</sup>, Rui Okubo<sup>1</sup>, Hiroaki Kiyokawa<sup>1</sup>, Takashi Shinozaki<sup>1</sup>  
<sup>1</sup>Saitama University (JP)
- 102 **Impacts of the peripheral optical flow generated by body sway during quiet standing**  
Kentaro Horiuchi<sup>1</sup>, Kuniyasu Imanaka<sup>1</sup>, Satomi Ishihara<sup>1</sup>  
<sup>1</sup>Tokyo Metropolitan University (JP)
- 104 **Comparing confidence biases in decision about perception and general knowledge**  
Matteo Lisi<sup>1</sup>  
<sup>1</sup>Royal Holloway University of London (UK)
- 106 **Attention please! Or how to model human face saliency using convolutional neural networks**  
Quentin Senant<sup>1</sup>, Aurore Philippe<sup>2</sup>, Léa Entzmann<sup>3</sup>, Nathalie Guyader<sup>2</sup>, Martial Mermillod<sup>2</sup>  
<sup>1</sup>CNRS UMR5105 (FR), <sup>2</sup>Université Grenoble Alpes (FR), <sup>3</sup>University of Iceland (IS)
- 108 **How head movements affect Functional Viewing Fields during visual search**  
Jacob Elliott Hadnett-Hunter<sup>1</sup>, Alex Göttker<sup>1</sup>  
<sup>1</sup>Justus Liebig Universität Giessen (DE)
- 110 **Meta-analysis of face and visual context interactions in emotion perception**  
Ben Steward<sup>1</sup>, Paige Mewton<sup>1</sup>, Romina Palermo<sup>2</sup>, Eryn Newman<sup>1</sup>, Amy Dawel<sup>1</sup>  
<sup>1</sup>Australian National University (AU), <sup>2</sup>The University of Western Australia (AU)
- 112 **Oblique Effect and Search Asymmetry in Autistic and Non-autistic Individuals**  
Mohammed Salman Sarkar<sup>1</sup>, Bat-Sheva Hadad<sup>1</sup>, Amit Yashar<sup>1</sup>  
<sup>1</sup>University of Haifa (IL)
- 114 **Visual and auditory discomfort: common explanations from natural texture statistics**  
Narumi Ogawa<sup>1</sup>, Isamu Motoyoshi<sup>2</sup>  
<sup>1</sup>Chuo University (JP), <sup>2</sup>The University of Tokyo (JP)
- 116 **Coregistration of EEG and Eye tracking in Hybrid Search Using Deconvolution Methods**  
Damian Care<sup>1</sup>, Joaquín González<sup>1</sup>, Anthony Ries<sup>2</sup>, Matias Ison<sup>3</sup>, Juan Kamienkowski<sup>1</sup>  
<sup>1</sup>University of Buenos Aires (AR), <sup>2</sup>ARL (US), <sup>3</sup>University of Nottingham (UK)
- 118 **Feedback from medial parietal and ventral visual cortex to early visual cortex during mental imagery**  
Catriona Scrivener<sup>1</sup>, Jessica Teed<sup>1</sup>, Edward Silson<sup>1</sup>  
<sup>1</sup>University of Edinburgh (UK)
- 120 **The consistency of peripheral appearance**  
Bilge Sayim<sup>1</sup>, Ângela G. Tomaz<sup>2</sup>, Natalia Melnik<sup>3</sup>  
<sup>1</sup>CNRS, University of Lille (FR), <sup>2</sup>UC Berkeley (US), <sup>3</sup>Otto-von-Guericke-Universität Magdeburg (DE)
- 122 **Orientation dependence of geometric optical illusions: 'up' is in the eye of the beholder**  
Christoph von Castell<sup>1</sup>, Heiko Hecht<sup>1</sup>  
<sup>1</sup>Johannes Gutenberg-Universität Mainz (DE)
- 124 **Dopaminergic Control of Visual Change Prediction in Parkinson's Disease**  
Oliver Leopold Steiner<sup>1</sup>, Nicolas Roth, Sarah Melchert<sup>2,3</sup>, Sven-Florian Jaeger<sup>2,3</sup>, Fabian Klostermann<sup>2,3</sup>, Martin Rolfs<sup>1</sup>  
<sup>1</sup>Humboldt Universität zu Berlin (DE), <sup>2</sup>Department of Neurology, Motor and Cognition Group, Charité – Universitätsmedizin Berlin (DE), <sup>3</sup>Freie Universität Berlin and Hamburg (DE)



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- 126 **Effective connectivity of the cortical face-network through concurrent intracerebral electrical stimulation and frequency-tagged visual presentation**  
Luna Angelini<sup>1</sup>, Corentin Jacques<sup>1,2,3</sup>, Marie-Alphée Laurent<sup>1,2,3</sup>, Louis Maillard<sup>1,2,3,4</sup>, Sophie Colnat-Coulbois<sup>1,2,3,4</sup>, Jacques Jonas<sup>1,2,3,4</sup>, Bruno Rossion<sup>1,2,3,4</sup>  
<sup>1</sup>Université de Lorraine (FR), <sup>2</sup>IMoPA (FR), <sup>3</sup>CNRS (FR), <sup>4</sup>CHRU-Nancy, Service de Neurologie (FR)
- 128 **Neural correlates of contour erasure as revealed by MEG**  
Yih-Shiuan Lin<sup>1</sup>, Mark W. Greenlee<sup>1</sup>, Chien-Chung Chen<sup>1</sup>  
<sup>1</sup>University of Regensburg, Institute of Psychology (DE)
- 130 **Cross-modal serial dependence biases and the modulatory effect of task**  
Michele Fornaciai<sup>1</sup>, Irene Togoli<sup>1</sup>, Samuel Binisti<sup>1</sup>, Olivier Collignon<sup>1</sup>  
<sup>1</sup>Université Catholique De Louvain (UCLouvain) (BE)
- 132 **Psychophysical Measurement of Automatic Attention at Different Visual Eccentricities**  
Marcelo Costa<sup>1</sup>, Leonardo Henriques<sup>1</sup>, Roberta Zagui<sup>1</sup>  
<sup>1</sup>University of São Paulo (BR)
- 134 **Parafoveal preview effects during natural and accelerated reading**  
Denisa Adina Zamfira<sup>1</sup>, Michele Deodato<sup>2</sup>, Giuseppe Di Dona<sup>1</sup>, Luca Ronconi<sup>1</sup>, David Melcher<sup>2</sup>  
<sup>1</sup>Vita-salute San Raffaele University & San Raffaele Scientific Institute (IT), <sup>2</sup>New York University Abu Dhabi (AE)
- 136 **The influence of eye movements on perceived tone frequency: exploring pitch-space associations through psychophysics**  
Adrien Paire<sup>1</sup>, Idil Su Koksou<sup>1</sup>, Ketsia Matondo<sup>1</sup>, Dorine Vergilino-Perez<sup>1</sup>, Céline Paeye<sup>1</sup>  
<sup>1</sup>Laboratoire Vision Action Cognition - U. Paris Cité (FR)
- 138 **Linearisation of a monitor for web-based experiments**  
Jonathan Peirce<sup>1</sup>, Kimberley Dundas<sup>2</sup>, Rebecca Hirst<sup>2</sup>, Nikita Agafonov<sup>2</sup>, Alain Pitiot<sup>2</sup>  
<sup>1</sup>University of Nottingham (UK), <sup>2</sup>Open Science Tools Ltd (UK)
- 140 **Effects of aversive shock on perceptual learning in a virtual reality environment**  
John Cass<sup>1</sup>, Wing Hong Fu<sup>1</sup>, Larissa Cahill<sup>2</sup>, Yanping Li<sup>1</sup>, Gabrielle Weidemann<sup>1</sup>  
<sup>1</sup>Western Sydney University (AU), <sup>2</sup>DST Group (AU)
- 142 **Spatiotemporal characteristics of the stereoscopic anisotropy**  
Ichasus Llamas-Cornejo<sup>1</sup>, Ignacio Serrano-Pedraza<sup>1</sup>  
<sup>1</sup>Universidad Complutense De Madrid (ES)
- 144 **The Impact of Scene Consistency and Orientation on Unawareness Visual Processing**  
Mingjie Gao<sup>1</sup>, Weina Zhu<sup>1</sup>  
<sup>1</sup>Yunnan University (CN)
- 146 **A dynamic link between respiration and arousal**  
Daniel Kluger<sup>1</sup>, Joachim Gross<sup>1</sup>, Christian Keitel<sup>2</sup>  
<sup>1</sup>University of Munster (DE), <sup>2</sup>University of Dundee (UK)
- 148 **Spatial Layout and Composition: Related but Distinct Factors for the Aesthetic Appreciation of Natural Images**  
Lisa Koßmann<sup>1</sup>, Ann-Sophie Hellemans<sup>2</sup>, Christophe Bossens<sup>2</sup>, Johan Wagemans<sup>2</sup>  
<sup>1</sup>Ku Leuven (BE), <sup>2</sup>Laboratory of Experimental Psychology, Department of Brain and Cognition, University of Leuven (KU Leuven) (BE)
- 150 **Stepping over obstacles: Exploring the effects of surface properties and visual uncertainty**  
Zhong Jian (Keith) Chee<sup>1</sup>, Daniela Ruseva<sup>1</sup>, Constanze Hesse<sup>1</sup>, Martin Giesel<sup>1</sup>  
<sup>1</sup>University of Aberdeen (UK)





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- 152 **The furrow illusion quartet (FIQ): A new display to explore the role of negative afterimages**  
Anna Riga<sup>1</sup>, Ian M. Thornton<sup>1</sup>  
<sup>1</sup>Department of Cognitive Science, University of Malta (MT)
- 154 **Active vision is timed to stabilise cortical representations for fixation-based memory encoding**  
Philip Sulewski<sup>1</sup>, Carmen Amme<sup>2</sup>, Martin N Hebart<sup>3</sup>, Peter König<sup>2</sup>, Tim C Kietzmann<sup>2</sup>  
<sup>1</sup>University of Osnabrück (DE), <sup>2</sup>Institute of Cognitive Science, University of Osnabrück, Osnabrück (DE), <sup>3</sup>Vision and Computational Cognition Group, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig (DE)
- 156 **Exploring the Interplay of Visuo-Spatial Working Memory and Oculomotor Control**  
Soazig Casteau<sup>1</sup>, Daniel T. Smith<sup>1</sup>  
<sup>1</sup>Durham University (UK)

**Rank Prize Lecture**  
**16.30–18.00 (Room 1)**

**Hide and Seek: Bringing Vision Science to Animal Patterning**  
Julie Harris<sup>1</sup>  
<sup>1</sup>University of St Andrews (UK)