46th European Conference on Visual Perception 2024

Scientific Programme

Aberdeen, Scotland

25 – 29 August 2024

	Sunday August 25th	Monday August 26th	Tuesday August 27th	Wednesday August 28th	Thursday August 29th	
9am		**POSTER SESSION 1** (Hall B)	**POSTER SESSION 3** (Hall B)	**POSTER SESSION 5** (Hall B)	**POSTER SESSION 7** (Hall B)	Coffee
10am	**TUTORIAL A** (University Library, Room 224) / **TUTORIAL B** (University Library, Room 7)	**Symp 1** (Room 1A) / **Symp 2** (Room 1B) / **Talk 1** (Room 3)	**Symp 3** (Room 1A) / **Talk 5** (Room 1B) / **Symp 4** (Room 3)	**Symp 5** (Room 1A) / **Talk 9** (Room 1B) / **Symp 6** (Room 3)	**Symp 8** (Room 1A) / **Talk 12** (Room 1B) / **Symp 9** (Room 3)	
11am						
12pm		**Roundtables 1/2** (Rooms 3/4)	**Roundtables 3/4** (Rooms 3/4)	**Roundtables 5/6** (Rooms 3/4)	**Roundtables 7/8** (Rooms 3/4)	Lunch
1pm	**TUTORIAL C** (University Library, Room 224) / **TUTORIAL D** (University Library, Room 7)					
2pm		**Talk 2** (Room 1A) / **Talk 3** (Room 1B) / **Talk 4** (Room 3)	**SPOTLIGHT IN VISION LECTURE** (Room 1)	**Symp 7** (Room 1A) / **Talk 10** (Room 1B) / **Talk 11** (Room 3)	**Symp 10** (Room 1A) / **Talk 13** (Room 1B) / **Talk 14** (Room 3)	
3pm	**TUTORIAL E** (University Library, Room 7) / **TUTORIAL F** (University Library, Room 224)			*Halstead-Granville Tea, sponsored by the Colour Group (GB)		Coffee
4pm		**POSTER SESSION 2** & **WHISKY TASTING** (Hall B)	**POSTER SESSION 4** (Hall B)	**POSTER SESSION 6** (Hall B)	**BUSINESS MEETING** (Room 1A)	
5pm			**Talk 6** (Room 1A) / **Talk 7** (Room 1B) / **Talk 8** (Room 3)	**RANK PRIZE LECTURE** (Room 1)	**Talk 15** (Room 1A) / **Talk 16** (Room 1B) / **Talk 17** (Room 3)	
6pm						
7pm	**PERCEPTION LECTURE** (Music Hall)					
8pm	**OPENING RECEPTION** (Music Hall)	**PERCEPTIO-NITE** (OGV Taproom) *until midnight	**ILLUSION NIGHT** (Aberdeen Art Gallery)	**CONFERENCE DINNER** (Beach Ballroom) *until midnight	**FAREWELL PARTY** (Union Kirk) *until midnight	
9pm						
10pm						

Registration

Contents

Sunday 25th August

Perception Lecture
18.00–19.30 (Music Hall)

Principles of Neuroscience in Color
Bevil Conway[1]
[1]National Eye Institute (US)

Monday 26th August

Poster Session 1 [odd numbers]
09.00–10.30 (Hall B)

1 **Material perception with GPT-Vision**
Maarten Wijntjes[1], Yuguang Zhao[1]
[1]Delft University of Technology (NL)

3 **Walking lends a helping hand to vision in the sound-induced double flash illusion**
Cameron Phan[1], Alessia Tonelli[2], David Alais[1]
[1]The University of Sydney (AU), [2]Istituto Italiano di Tecnologia (IT)

5 **The role of colour in recognition of cultural landscapes**
Galina Paramei[1], Yulia Griber[2]
[1]Liverpool Hope University (UK), [2]Smolensk State University (RU)

7 **Visualization of Mental Templates in Human Sensory Information Processing Using Diffusion Model**
Qifeng Wei[3], Imanishi Wataru[1,2], Atsushi Ishiyama[1], Tomoyuki Naito[2,4]
[1]Graduate School of Frontier Biosciences, Osaka University (JP), [2]MaiND Lab, Inc., [3]School of Engineering Science, Osaka University (JP), [4]Graduate School of Medicine, Osaka University (JP)

9 **Functional dissociation between alpha and theta oscillations for feature-based and spatial attentional orienting and reorienting**
Laurie Galas[1], Mehdi Senoussi[2], Niko Busch[3], Laura Dugué[1]
[1]Université Paris Cité, CNRS, Integrative Neuroscience and Cognition Center (FR), [2]Université Toulouse Jean Jaurès, CNRS (FR), [4]Institute of Psychology and Otto-Creutzfeldt-Center for Cognitive and Behavioral Neuroscience, University of Muenster (DE)

11 **A Stroop effect for material appearance**
Hua-Chun Sun[1], Jacob Cheeseman[1], Giacomo Aldegheri[1], Roland Fleming[1], Filipp Schmidt[1]
[1]Justus Liebig University Giessen (DE)

13 **Binocular rivalry dynamics are abnormal in amblyopia**
Adrien Chopin[1], Aubrey Rossi[2], Preeti Verghese[1], Michael A. Silver[4], Dennis M. Levi[3]
[1]Smith-Kettlewell Eye Research Institute (US), [2]Psychology Department, University of Oregon (US), [3]Herbert Wertheim School of Optometry and Vision Science, University of California, Berkeley (US), [4]Helen Wills Neuroscience Institute, University of California, Berkeley (US)

15 **An open-source vision-science tool for the auto-regressive generation of dynamic stochastic textures Motion Clouds**
Nikos Gekas[1], Andrew Isaac Meso[2], Jonathan Vacher[3], Laurent Perrinet[4], Pascal Mamassian[5], Guillaume Masson[4]
[1]Edinburgh Napier University (UK), [2]King's College London (UK), [3]Université Paris Cité (FR), [4]Aix-Marseille Université (FR), [5]École normale supérieure (FR), PSL University (FR)

17 **The face-name matching effect in a Serbian context**
Sunčica Zdravković
[1]Department of Psychology, Faculty of Philosophy, University of Novi Sad Serbia (RS)

19 **ERG correlates of the famous ramp aftereffect**
Shalila Freitag[1,2], Maren-Christina Lengle[3], Sascha Klee[3], Sven P. Heinrich[1,2]
[1]Eye Center, Medical Center, University of Freiburg (DE), [2]Faculty of Medicine, University of Freiburg (DE), [3]Institute of Biomedical Engineering and Informatics, Ilmenau University of Technology (DE)

21 **Pre-saccadic Attention (and not arousal) modulates the Size-Eccentricity Effect**
Céline Paeye[2], Jad Laaboudi[2], Anne Hillairet de Boisferon[1]
[1]Laboratoire de Psychologie des Cognitions - Université de Strasbourg (FR), [2]Laboratoire Vision Action Cognition - U. Paris Cité (FR)

23 **Perceptual learning improves motion perception in patients with age-related macular degeneration**
Célia Michaud[1], Cynthia Faurite[3], Jade Guénot[2], Victor Vattier[2], Maxime Rosito[2], Robin Baures[2], Yves Trotter[2], Vincent Soler[2], Carole Peyrin[3], Benoit R Cottereau[2]
[1]French National Centre for Scientific Research (FR), [2]Centre de Recherche Cerveau et Cognition, Université Toulouse III-Paul Sabatier, CNRS (FR), [3]Laboratoire de Psychologie et NeuroCognition, Université Grenoble Alpes, Université Savoie Mont Blanc, CNRS (FR)

25 **Gaze-centred hypometric pointing in Peripheral Vision Modulated by Covert Attention**
Tristan Jurkiewicz[1], Audrey Vialatte[1], Yaffa Yeshurun[2], Laure Pisella[1]
[1]Centre de Recherche en Neurosciences de Lyon (CRNL) (FR), [2]University of Haifa (IL)

27 **Does human perception have access to purely monocular information?**
Rinku Sarkar[1], Robert F. Hess[2], Alexandre Reynaud[2]
[1]McGill University (CA), [2]McGill Vision Research Unit, Department of Ophthalmology, McGill University (CA)

29 **Testing Limits of Ensemble Perception**
Shaul Hochstein[1], Daniella Koyfman[1], Haya Abtan
[1]Hebrew University (IL)

31 **Testing the Proportional Rate Control: Drivers use Different Proportional Rate Values when Braking Capability Changes**
Didem Kadihasanoglu[1], Rabia Barin Adsiz[1], Irmak Oztan[1], Cansu Karabek[1], Xiaoye Michael Wang, Geoffrey P. Bingham
[1]Tobb University of Economics and Technology (TR)

33 **Reliability of static visual field assessments in children with cerebral visual impairment (CVI)**
Jannet Philip[1], Nomdo Jansonius[2], Bianca Huurneman[1], Nienke Boonstra[1]
[1]Royal Dutch Visio (NL), [2]University medical centre Groningen (NL)

35 **Eye movements evoked by binaural monopolar galvanic vestibular stimulation**
Alba Langlade, Elisa Dabin, Simon Martinoli, Alexandra Séverac Cauquil[1]
[1]Cerco CNRS Université Toulouse III (FR)

37 **Material and weight influence perceived value of novel objects in visuo-haptic interactions**
Knut Drewing[1], Daniel-Philipp Becker[1]
[1]University of Giessen (DE)

39 **Biased localization and interception – shared mechanisms underlying representational momentum and tau effect**
Anna Schroeger[1], Simon Merz[2]
[1]Justus Liebig University Giessen (DE), [2]University of Trier (DE)

41 **Analysis of gaze patterns when using progressive lenses during visual acuity measurements at different distances**
Amelia González[1], Pablo Concepción[1], Clara Benedí[1], Carmen Cano[1], Marta Álvarez[1], Jose Miguel Cleva[1], Eva Chamorro[1]
[1]IOT (ES)

43 **Boosting transfer in perceptual learning using transcranial random noise stimulation**
Marco Roccato[1], Andrea Pavan[2], Gianluca Campana[1]
[1]University of Padova, Department of General Psychology (IT), [2]University of Bologna, Department of Psychology (IT)

45 **Individual differences in colour vision and their impact on perceived characteristics of food**
Ilgin Cebioglu[1], Persephone Nuttall[1], Niamh Pollard[1], Lily Potts[1], Gabriele Jordan[1], Anya Hurlbert[1]
[1]Newcastle University (UK)

47 **Unseen yet recognized: unconscious processing of upright and inverted Mooney faces**
Michael Makoto Martinsen[1], Hirotaka Senda[1], Hideki Tamura[1], Tetsuto Minami[1], Shigeki Nakauchi[1]
[1]Toyohashi University of Technology (JP)

49 **Comparing Shape Distortion in Frame Effect and Flash Grab Effect**
Mohammad Shams[1], June Cutler[1], Peter Kohler[1], Patrick Cavanagh[1]
[1]York University (CA)

51 **Feedback of self-action enhances visual time estimation when performed together**
Elise Abou Mrad[1], Louis Garcia[1,2], Joseph Tisseyre[2], Sylvain Cremoux[1]
[1]Centre de Recherche Cerveau et Cognition (CerCo) (FR), [2]Toulouse Neuro Imaging Center (TONIC) (FR)

53 **Exploring Image Aesthetics with Machine Learning: Insights from Explainable AI**
Derya Soydaner[1], Johan Wagemans[1]
[1]KU Leuven (BE)

55 **Simulation-based Investigation and Mitigation of Visual Discomfort in AR/VR Environments**
Alice Sansalone[1], Andrea Canessa[1], Agostino Gibaldi[2], Gerrit Maus[2], Silvio Sabatini[1]
[1]University of Genoa (IT), [2]Magic Leap Inc (US)

57 **Exploring the relation of locomotion patterns and visual disease: insights from deep-learning analysis**
Safa Andac[1], Yaxin Hu[2], Khaldoon O. Al-Nosairy[3], Rosalie Beyer[3], Hagen Thieme[3], Erhardt Barth[2], Michael B. Hoffmann[3]
[1]Otto-von-Guericke University (DE), [2]Institute of Neuro- and Bioinformatics, University of Lübeck (DE), [3]Section for Clinical and Experimental Sensory Physiology, Ophthalmic Department, University Hospitals Magdeburg (DE)

59 **Detecting objects in noise: signal pooling within and across objects**
Gunter Loffler[1], Gael Gordon[1]
[1]Glasgow Caledonian University (UK)

61 **The role of expertise and training in suppressing task-irrelevant sensory input**
Sebastian Frank[1], Antonia Wittmann[1], Ayumi Wandl[1], Ekaterina-Rita Hegmann[1], Sinah Wiborg[1], Markus Becker[1]
[1]University of Regensburg (DE)

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Benedikt Kretzmeyer[1], Meaghan McManus[1], Constantin Rothkopf[2], Katja Fiehler[1]
[1]Justus Liebig University Giessen (DE), [2]Technical University of Darmstadt (DE)

65 **An active inference account of the formation of visual preference**
Olivier Penacchio[1], Ana Clemente[2]
[1]Computer Vision Center, Computer Science Department, University of St Andrews (UK), [2]Max Planck Institute for Empirical Aesthetics (DE)

67 **Explaining the Disparity Sensitivity Function with Natural Image Statistics**
Ross Goutcher[1], Mark Donoghue[1], Paul B. Hibbard[1]
[1]University of Stirling (UK)

69 **Experimental design and stimulus duration selectively modulate repulsive and attractive history effects**
Mert Can[1], Thérèse Collins[1,2]
[1]Université Paris Cité (FR), [2]CNRS (FR)

71 **Paradoxical 3-D vision from 2-D stimuli during recovery from third-nerve palsy: a striking new finding**
Thomas Papathomas[1], Brian Rogers[2]
[1]Oxford University (UK), [2]Rutgers University (US)

73 **Image memorability is not strictly visual**
Diana Kollenda[1], Sophie Halstenberg[1], Ben de Haas[1]
[1]Justus Liebig University (DE)

75 **Investigating Attentional Bias Towards Emotional Faces in Depression: An Eye-Tracking and Heart-Rate Variability Study**
Hoo Keat Wong[1], Yi Xiang Chang[1], Alessio Bellato[2]
[1]University of Nottingham Malaysia Campus (MY), [2]University of Southampton (UK)

77 **The Influence Of Material Properties On Exploratory Procedures And Touch Patterns During Haptic Shape Perception**
Lisa Pui Yee Lin[1], Katja Doerschner[1], Knut Drewing[1]
[1]Justus-Liebig University Giessen (DE)

79 **Comparison between reading acceleration and phonological trainings in Developmental Dyslexia: a tACS study**
Camilla Venturini[1], Francesco De Benedetto[1], Giuseppe Di Dona[1], Denisa Adina Zamfira[1], Lisa Venniro[1], Luca Ronconi[1], Daniela Perani[1]
[1]IRCCS San Raffaele Scientific Institute (IT)

81 **Continuous-feature foraging: estimating target selection biases using Bayesian statistical modelling**
Jennifer Magerl Fuller[1], Árni Kristjánsson[1], Alasdair Clarke[2], Árni Gunnar Ásgeirsson[3]
[1]University of Iceland (IS), [2]University of Essex (UK), [3]University of Akureyri (IS)

83 **Investigating the neural mechanisms of visual crowding in the behaving non-human primate**
Taekjun Kim[1], Amber Fyall[1], Sofia Beaufrand[1], Anitha Pasupathy[1]
[1]University of Washington (US)

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Megumi Nishikawa[1], Akiyoshi Kitaoka[1]
[1]Ritsumeikan University (JP)

87 **Impact of accent on gaze structure in grouping and segmentation: An eye tracking analysis**
Liga Zarina[1], Jurgis Skilters[3], Megija Lelde Gintere[4], Baingio Pinna[5], Santa Bartusevica[3], Solvita Umbrasko[3], Laura Zelge[3], Ardis Platkajis[2], Janis Mednieks[2], Aleksejs Sevcenko[2], Nauris Zdanovskis[2], Artūrs Silovs[2], Edgars Naudins[2], Agnese Anna Pastare[2]
[1]University Of Latvia (LV), [2]Riga Stradins University (LV), [3]Laboratory for Perceptual and Cognitive Systems at the Faculty of Computing, University of Latvia (LV), [4]Faculty of Computing, University of Latvia (LV), [5]Department of Biomedical Sciences, University of Sassari (IT)

89 **Estimating the centers of visual point clouds**
Laurence Maloney[1], Keiji Ota[2], Pascal Mamassian[3]
[1]New York University (US), [2]University College London (UK), [3]CNRS & Ecole Normale Supérieure, Paris (FR)

91 **Emotion Prediction and Precision-Weighing: Facial expression intensity influences reliance on prior expectations to perceive emotions**
Madge Jackson[1], Louise Phillips[1], Patric Bach[1], Vilma Pullinen[1]
[1]University of Aberdeen (UK)

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Belén M Montabes de la Cruz[1], Clement Abbatecola[1], Roberto Scott Luciani[1], Angus T. Paton[1], Johanna Bergmann[2], Petra Vetter[3], Lucy S. Petro[1], Lars Muckli[1]
[1]University of Glasgow (UK), [2]Max Planck Institute for Human Cognitive and Brain Sciences (DE), [3]University of Fribourg (CH)

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Giulio Contemori[1], Marianna Musa[1], Carolina Maria Oletto[1], Luca Battaglini[1], Giorgia Cona, Marco Bertamini
[1]University of Padova (IT)

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Mayra Bittencourt[1], Marcus Daghlian[1,2,3], Remco Renken[1], Serge Dumoulin[2,3,4,5], Frans Cornelissen[1]
[1]UMCG (NL), [2]Spinoza Center for Neuroimaging (NL), [3]Netherlands Institute for Neuroscience (NL), [4]Vrije Universiteit Amsterdam (NL), [5]Utrecht University (NL)

99 **Biasing face matching decisions with prior judgements**
Catriona Havard[1], Emily Breese
[1]Open University (UK)

101 **Normative Data for Assessment of Face Cognition in Policing**
Jobila Eigenmann[1], Lionel Boudry[1], Neil M. Docherty[2], Meike Ramon[1]
[1]Applied Face Cognition (AFC) Lab, University of Lausanne (CH), [2]Software Development, Usability Consulting and IT Infrastructure Unit (ASCII), Institute for Medical Education (IML), Un (CH)

103 **Exploring neural correlates of visual saliency using electroencephalography**
Judith Schepers[1], Benedikt Valerian Ehinger[1]
[1]University of Stuttgart (DE)

105 **Attractiveness influences memory for unfamiliar happy faces, but not for angry faces**
Eriko Matsumoto[1], Nanako Kizaki[2]
[1]Kobe University (JP), [2]Department of Global Human Science, Kobe University (JP)

107 **How human-like are robots really?**
Isabel Marie Gillert[1], Gnanathusharan Rajendran[1], Louise S. Delicato[1]
[1]Heriot-Watt University (UK)

109 **Using low-level features to predict similarity judgements for naturalistic images**
Emily A-Izzeddin[1], Thomas S. A. Wallis[2], Jason B. Mattingley[3], William J. Harrison[3]
[1]Justus-Liebig-Universität Gießen (DE), [2]Institute of Psychology & Centre for Cognitive Science, Technical University of Darmstadt (DE), [3]Queensland Brain Institute, The University of Queensland; School of Psychology, The University of Queensland (AU)

111 **Slower Category Learning and Over-Specific Generalization in Adults with Autism: Psychophysics and EEG**
Jaana Van Overwalle[1], Stephanie Van der Donck[1], Birte Geusens[1], Bart Boets[1], Johan Wagemans[1]
[1]KU Leuven (BE)

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Petra Borovska[1], Benjamin de Haas[1]
[1]Justus Liebig University Giessen (DE)

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Hidemi Komatsu[1], Kayoko Murata[2]
[1]Keio University (JP), [2]Kobe Gakuin University (JP)

117 **Social perception as (Bayesian) hypothesis testing and revision. Findings and Mechanisms.**
Patric Bach[1]
[1]University of Aberdeen (UK)

119 **Thematic relations between objects get through the bottleneck of crowding**
Nicolas Slaski[1], Solène Kalénine[1], Bilge Sayim[1]
[1]University of Lille, Laboratory Scalab (FR)

121 **Creative drawings reveal features for superordinate object classification**
Filipp Schmidt[1], Henning Tiedemann[1], Christian Houborg[1], Emily A-Izzeddin[1], Roland W. Fleming
[1]Justus Liebig University Giessen (DE)

123 **How experimental research on human shape perception can help us understand the history of science**
Ulrich Stegmann[1], Filipp Schmidt[2]
[1]University of Aberdeen (UK), [2]University of Giessen (DE)

125 **A radial-symmetric checkerboard stimulus obeying the inverse-linear cortical magnification law**
Hans Strasburger[1]
[1]Ludwig-Maximilians-Universität München (DE)

127 **Does temporal regularity affect evidence accumulation during perceptual decision-making?**
Kuo Liu[1], Amy X. Li[1], Sage E. P. Boettcher[1], Laurence T. Hunt[1]
[1]University of Oxford (UK)

129 **The impact of overall stimulus intensity and processing noise on decision accuracy**
Angelo Pirrone[1]
[1]University of Liverpool (UK)

131 **Elemental and configural stimulus control in multidimensional visual discrimination learning by pigeons**
Olga Vyazovska[1]
[1]Kharkiv International Medical University (UA)

133 **The relationship between visual acuity and working memory**
Corinna Haenschel[1], Emsal Llapashtica, John Barbur, Paul Bretherton
[1]Department of Psychology, City, University of London (UK)

135 **Memory for Stained-Glass Windows is Not Affected by Light Patterns**
Kate Nevin[1]
[1]Trinity College Dublin (IE)

137 **Advance Task Preparation on Crossmodal Attention Switching in Older Adults: An fMRI Study**
Pi-Chun Huang[1], Ludivine Schils[2], Iring Koch[2], Denise Stephan[2], Shulan Hsieh[1]
[1]National Cheng Kung University (TW), [2]RWTH Aachen University (DE)

139 **Spatial biases in visual foraging: Investigating the effect of display structure on foraging direction**
Manjiri Bhat[1], Anna Hughes[1], Russel Cohen Hoffing[2], Alasdair Clarke[1]
[1]University of Essex (UK), [2]DEVCOM Army Research Laboratory (US)

141 **Examining the neural bases of looking and seeing in visual search using event-related potentials**
Junhao Liang[1], Li Zhaoping[1]
[1]Eberhard Karls University of Tübingen (DE)

143 **Blindness to Absence of Color: Effects of Color and Spatial Layout in Natural Scene Images**
Eiji Kimura[1], Maika Yamaguchi[1]
[1]Chiba University (JP)

145 **From repulsion to attraction in visual working memory**
Andrey Chetverikov[1]
[1]University of Bergen (NO)

147 **Cognitive-load dependent effects of tDCS on the executive vigilance decrement: insights from aperiodic EEG activity**
Klara Hemmerich[1], Juan Lupiáñez[2], Elisa Martín-Arévalo[2], Roi Cohen Kadosh[3]
[1]Vita-Salute San Raffaele University (IT), [2]Department of Experimental Psychology, and Mind, Brain and Behavior Research Center (CIMCYC), University of Granada (ES), [3]School of Psychology, University of Surrey (UK)

149 **Goal-dependent spatial frames for working memory following body movement: a combined VR and eye-tracking study**
Babak Chawoush[1], Dejan Draschkow[2], Freek van Ede[1]
[1]Vrije Universiteit Amsterdam (NL), [2]University of Oxford (UK)

151 **A potential spectral code for subjective colour perception**
Lemona Xinxuan Zhang[1], Lucy P Somers[1], Jenny M Bosten[1]
[1]University of Sussex (UK)

153 **Neuronal mechanisms involved in filtering out a salient task-irrelevant signal in visual perceptual learning**
Markus Becker[1], Sebastian M. Frank[1]
[1]University of Regensburg (DE)

155 **The effectiveness of pointing- and gaze-cues in spatial attention**
Wieske van Zoest[1], Adam Higgins[1]
[1]University of Birmingham (UK)

157 **An investigation of square wave jerks in Parkinson's disease, progressive supranuclear palsy and healthy controls**
Alessio Pietro Facchin[1], Andrea Quattrone[1], Jolanda Buononcore[1], Marianna Crasà[1], Aldo Quattrone[1]
[1]Magna Graecia University (IT)

159 **Cézanne's Madame and Klimt's Dame – Serial dependence in appreciation of art portraits**
Pik Ki Ho[1], Gregor Hayn-Leichsenring[2]
[1]Heriot-Watt University (UK), [2]University Hospital Jena (DE)

161 **Target selection during "snapshot" foraging**
Joe Macinnes[1], Sofia Tkhan Tin Le[2], Árni Kristjánsson[2]
[1]Swansea University (UK), [2]University of Iceland (IS)

Symposium 1
Increasing diversity in person perception research
10.30–12.00 (Room 1A)

Bias for White AI faces: A hyperrealism effect
Amy Dawel[1], Elizabeth Miller[1], Ben Steward[1], Zak Witkower[2], Clare Sutherland[3], Eva Krumhuber[4]
[1]Australian National University (AU), [2]University of Amsterdam (NL), [3]University of Aberdeen (UK), [4]University College London (UK)

Capturing variability in child faces using an artificial, but highly realistic set of children's faces
Sophia Thierry[1], Barbora Illithova[2], Catherine Mondloch[1], Alex Todorov[3], Stefan Uddenberg[3], Daniel Albohn[3], Clare Sutherland[2,4]
[1]Brock University (CA), [2]University of Aberdeen (UK), [3]University of Chicago (US), [4]University of Western Australia (AU)

Does diversity in facial age influence first impressions?
Anita Twele[1], Catherine Mondloch[1]
[1]Brock University (CA)

First impressions from faces and bodies
Ying Hu[1], Alice O'Toole[2]
[1]Institute of Psychology, CAS (CN), [2]The University of Texas at Dallas (US)

Symposium 2
Statistical learning in visual perception: How does the visual system process probabilistic information in the environment?
10.30–12.00 (Room 1B)

Learning Environmental Statistics with Feature Distribution Learning
Andrey Chetverikov[1]
[1]University of Bergen (NO)

Explicit Attentional Goals Unlock Implicit Spatial Statistical Learning
Nancy Carlisle[1], Ziyao Zhang[2]
[1]Lehigh University (US), [2]University of Texas- Austin (US)

Location cueing from color distributions
Philippe Blondé[1], Sabrina Hansmann-Roth[1], David Pascucci[2], Árni Kristjánsson[1]
[1]University of Iceland (IS), [2]École Polytechnique Fédérale de Lausanne (CH)

Learning spatial statistics to resist distraction by color singletons and luminance transients. Different mechanisms?
Matteo Valsecchi[1]
[1]Università Di Bologna (IT)

High-level prediction errors in low-level visual cortex
David Richter[1]
[1]CIMCYC, University of Granada (ES)

MONDAY 26TH AUGUST

Talk Session 1
Motion Perception
10.30–12.00 (Room 3)

10.30 **Perceived Speed-in-Depth is Affected by Adaptation to Binocularly and Temporally Anti-Correlated Stimuli**
Lauren Murray[1], Ross Goutcher[1]
[1]University of Stirling (UK)

10.45 **Strategy-induced across-trial variability explains seemingly anti-Bayesian effects in perceived motion**
Tyler Bridgewater[1], Tom Freeman[1], Christoph Teufel[1]
[1]Cardiff University (UK)

11.00 **The Motion Induced Position Shift on target and cursor items: an optimal control account**
Loes van Dam[1], Borja Aguado[2]
[1]Technical University of Darmstadt (DE), [2]GRAD Atenció a la Diversitat. Psychology Department. Faculty of Education, Translation, Sports and Psychology. Universitat De Vic - Universitat Central De Catalunya (ES)

11.15 **Perception of ambiguous multi-component Motion-Clouds varies with image statistics and observers' interpretation of integration-segmentation cues**
Andrew Meso[1], Jonathan Vacher[2], Nikos Gekas[3], Pascal Mamassian[4], Guillaume S. Masson[5]
[1]King's College London (UK), [2]Universite Paris Cite, CNRS (FR), [3]Edinburgh Napier University, Edinburgh (UK), [4]Laboratoire des Systemes Perceptifs, Ecole normale superieure, PSL University, CNRS (FR), [5]Institute de Neurosciences de la Timone Aix-Marseille Univ, CNRS (FR)

11.30 **Studying Precision and Temporal Dynamics in Heading Perception with Continuous Psychophysics**
Bjoern Joerges[1]
[1]York University, Toronto (CA)

11.45 **Perceptual consequences of neural anisotropies**
Qasim Zaidi[1], Akihito Maruya[1]
[1]State University of New York (US)

Talk Session 2
Attention
13.30–15.00 (Room 1A)

13.30 **Local and inter-areal communication of auditory prediction error information is selectively modulated by visual attention**
Juho Äijälä[1], Louis Roberts[2], Robin Ince[3], Dora Hermes[4], Michael Jenssen, Kai Miller, John Garbi, Max Garagnani, Andres Canales-Johnson[1]
[1]University of Cambridge (UK), [2]Goldsmiths University of London (UK), [3]University of Glasgow (UK), [4]Mayo Clinic, Rochester (US)

13.45 **Dynamic modulations of glutamate with visual attentional load in posterior parietal cortex**
Sinah Wiborg[1], Markus Becker[1], Antonia Wittmann[1], Zhiyan Wang[1], Sebastian M. Frank[1]
[1]Universität Regensburg (DE)

14.00 **Attentional guidance through object associations in visual cortex**
Maëlle Lerebourg[1], Floris P. de Lange[1], Marius V. Peelen[1]
[1]Donders Institute, Radboud University (NL)

14.15 **Emergent Neural Signatures of Human-like Covert Attention in Convolutional Neural Networks**
Miguel Eckstein[1], Sudhanshu Srivastava[1]
[1]University of California Santa Barbara (US)

14.30 **Multivariate EEG markers of lapses in visual attention within a dynamic environment**
Benjamin Lowe[1]
[1]Macquarie University (AU)

14.45 **Characterizing the Interaction of Spontaneous Fluctuations in Sustained Attention and Learned Adjustments in Attentional Flexibility**
Anthony Sali[1], Anna Toledo[1], Yuxin Xie[1], Madison Shaver[1], Austin Torain[1], Isabel Flicker[1], Emily Oor[1]
[1]Wake Forest University (US)

Talk Session 3
Social Perception
13.30–15.00 (Room 1B)

13.30 **Abstraction of Mind in Pictures and the Medusa Effect**
Alan Kingstone[1], Salina Edwards[2], Oliver Jacobs[1], Rob Jenkins[3]
[1]UBC (CA), [2]McMaster University (CA), [3]University of York (UK)

13.45 **Converging evidence that left extrastriate body area supports visual sensitivity to social interactions**
Kami Koldewyn[1], Marco Gandolfo[2], Etienne Abassi[4], Eva Balgova[3], Paul Downing[1], Liuba Papeo[5]
[1]Bangor University (UK), [2]Radboud University (NL), [3]Aberystwyth University (UK), [4]McGill University (CA), [5]Institut des Sciences Cognitives, Marc Jeannerod (FR)

14.00 **Uncanny valley for dynamic bodies in nonhuman primates**
Martin A. Giese[1], Lucas Martini[1], Anna Bognar[2], Rufin Vogels[2]
[1]CIN / HIH Univ of Tübingen (DE), [2]Dept. of Neuroscience, KU Leuven (BE)

14.15 **A visual search advantage for communicative interactions over independent actions**
Anthony Atkinson[1], Quoc Vuong[2]
[1]Durham University (UK), [2]Newcastle University (UK)

14.30 **Dissociation between Social and Visual Information in Dynamic Social Interaction Processing**
Yun Chen[1], Yu-Xuan Xue[1], Xin-Yu Xie[1]
[1]East China Normal University (CN)

14.45 **Evidence of a third functional visual pathway**
Simon Rushton[1], Mason Wells, Phoebe Asquith
[1]Cardiff University (UK)

Talk Session 4
Clinical Vision
13.30–15.00 (Room 3)

13.30 **Decreased scene-selective activity within the posterior intraparietal cortex in amblyopic human adults**
Shahin Nasr[1], Sarala Malladi[2], Jan Skerswetat[3], Roger Tootell[1], Eric Gaier, Peter Bex, David Hunter
[1]Harvard Medical School (US), [2]Massachusetts General Hospital (US), [3]Northeastern University (US)

13.45 **The perceptual characteristics of phosphenes induced via intracortical electrical stimulation of the visual cortex**
Leili Soo[1], Alfonso Rodil[1], Fabrizio Grani[1], Rocio Lopez-Peco[1], Marcos Adrian Villamarin Ortiz, Aranzazu Alfaro Saez[1], Cristina Soto-Sánchez[1], Eduardo Fernandez[1]
[1]Miguel Hernández University of Elche (ES)

14.00 **Altered Perception of the Bistable Motion Quartet in Albinism**
Jürgen Kornmeier[1], Elisabeth Quanz[2], Khaldoon O. Al-Nosairy[2], Charlotta M. Eick[2], Michael B. Hoffmann[2]
[1]Institute For Frontier Areas of Psychology and Mental Health & Medical Center, University of Freiburg (DE), [2]Department of Ophthalmology, Otto-von-Guericke University, Magdeburg (DE)

14.15 **Objectively Measuring Sight Rescue in Severely Vision-Impaired Young Children Following Gene Therapy**
Marc Pabst[1], Yannik Laich[2], Kim Staeubli[2], Roni Maimon-Mor[2], Steven Scholte[3], Peter Jones[4], Michel Michaelides[2], James Bainbridge[2], Tessa Dekker[2]
[1]UCL (UK), [2]UCL Institute of Ophthalmology (UK), [3]University of Amsterdam (NL), [4]City, University of London (UK)

14.30 **Changes in primary visual and auditory cortex of blind and sighted adults following echolocation training**
Lore Thaler[1], Tom Hartley[2], Liam J Norman[1]
[1]Durham University (UK), [2]University of York (UK)

14.45 **Unanticipated Brain Reorganization Mechanism in Blind Spatial Navigation Learning**
Lora Likova[1], Zhangziyi Zhou[1], Michael Liang[1], Christopher Tyler[1]
[1]Smith-Kettlewell Eye Research Institute (US)

Poster Session 2 [even numbers]
15.00–16.30 (Hall B)

2 **Investigating the mechanisms of global confidence**
Nadia Hosseinizaveh[1], Stephen Fleming[2], Pascal Mamassian[1]
[1]École Normale Supérieure, PSL University (FR), [2]University College London (UK)

4 **The impact of rotation on shape recognition is dependent on curvature features**
Gunnar Schmidtmann[1]
[1]University of Plymouth (UK)

6 **Watch your step: Similar gaze behavior during perturbed walking in younger and older adults**
Sabine Grimm[1], Jutta Billino[2], Wolfgang Einhäuser[1]
[1]Chemnitz University of Technology (DE), [2]Justus Liebig University Giessen (DE)

8 **Attentional shifts involving objects - insights from pupillometry and individual differences in internal noise**
Felipe Luzardo[1], Wolfgang Einhäuser[2], Yaffa Yeshurun[1]
[1]University of Haifa (IL), [2]Technische Universität Chemnitz (DE)

10 **Spatio-temporal interactions in visual crowding**
Martina Morea[1], Michael Herzog[1], Gregory Francis[2], Mauro Manassi[3]
[1]École Polytechnique Fédérale de Lausanne (CH), [2]Purdue University (US), [3]University of Aberdeen (UK)

12 **Exploring the impact of image region importance for pleasure and interest on art image inspection**
Maarten Leemans[1], Johan Wagemans[1]
[1]KU Leuven, University of Leuven (BE)

14 **Approach and retreat: Dynamically adjusting distance for size judgments in VR**
Avi Aizenman[1], Patrícia M. H. Oliveira[2], Alexander Goettker[1]
[1]Giessen University (DE), [2]University of Minho (PT)

16 **The spatial-frequency selectivity in cyclopean vision may arise from the processing in the extrastriate cortex**
Ignacio Serrano-Pedraza[1], Ichasus Llamas-Cornejo[1]
[1]Universidad Complutense de Madrid (ES)

18 **Budget-friendly commercial OLED displays for vision science experiments**
Tarek A. Haila[1], Korbinian Kunst[1], Julian Kalbes[1], Tran Quoc Khanh[1], Thomas Wallis[1]
[1]TU Darmstadt (DE)

20 **Compact Aerial Display With Scrolling Display in Two Directions by Using Slanted Slit-Shaped Retro-Reflector**
Daichi Tasaki[1], Akinori Tsuji[2], Toyotaro Tokimoto[1,3], Shiro Suyama[1], Hirotsugu Yamamoto[1]
[1]Utsunomiya University (JP), [2]Tokushima University (JP), [3]XAiX, LLC (JP)

22 **Shopping with vision loss: Using VR to quantify the impact of simulated visual field defects**
Peter Reddingius[1], David Crabb[1], Pete Jones[1]
[1]City, University of London (UK)

24 **Changing Tracks: How visual presentations of travel itineraries impact the choice between plane and train**
Daniele Catarci[1], Lea Laasner Vogt[2], Ester Reijnen[2]
[1]ZHAW Zürcher Hochschule für Angewandte Wissenschaften (CH), [2]ZHAW University of Applied Sciences (CH)

26 **Unraveling the Coordination of Perceptually Relevant Alpha Oscillations: a Large-Scale Network Synchronization study**
Gabriela Cruz[1], Maria Melcon[1], Mate Gyurkovics[1], Matias Palva[2], Gregor Thut[1], Satu Palva[3]
[1]University of Glasgow (UK), [2]Aalto University (FI), [3]University of Helsinki (FI)

28 **Perceived Stereo Depth reflects Retinal Disparities, not 3D Geometry**
Paul Linton[1], Nikolaus Kriegeskorte[1]
[1]Columbia University (US)

30 **Visual Measures as Language-agnostic Early Predictors of Reading Ability**
Mahalakshmi Ramamurthy[1], Julian Siebert[1], Carrie Townley-Flores[1], Mónica Zegers[2], Francesca Pei[2], Phaedra Bell[2], Lucy Yan[2], Maria Gorno-Tempini[2], Jason Yeatman[1]
[1]Stanford University (US), [2]Weill Institute for Neurosciences, University of California (US)

32 **Individual differences in 12-month-olds' pupillary responses to size and luminance of stimuli**
Karola Schlegelmilch[1], Camille Rioux[2], Katja Liebal[1], Annie E. Wertz[3]
[1]Leipzig University (DE), [2]Centre National de la Recherche Scientifique (CNRS), Université de Paris (FR), [3]Max Planck Institute for Human Development (DE)

34 **Scanning and crossing virtual streets with hemianopia; A step to successful crossings**
Eva Postuma[1], Gera de Haan[1], Joost Heutink[1], Frans Cornelissen[2]
[1]University of Groningen (NL), [2]University Medical Center Groningen (NL)

36 **A TMS test of hemispheric dominance for visual shape processing**
Jessica Teed[1], Catriona Scrivener[1], Robert McIntosh[1], Edward Silson[1]
[1]University of Edinburgh (UK)

38 **Better to measure colour constancy with coloured rather than grey surfaces**
Matteo Toscani[1], Tao Chen[2], Giuseppe Claudio Guarnera[2]
[1]University of Bournemouth (UK), [2]University of York, Department of Computer Science (UK)

40 **What do similarity tasks actually measure? A systematic comparison of eight tasks.**
Malin Styrnal[1], Philipp Kaniuth[2], Laura Stoinski[2], Martin N. Hebart[1]
[1]Justus Liebig University Giessen (DE), [2]Max Planck Institute for Human Cognitive and Brain Sciences (DE)

42 **Eyeing motion: Effects of moving stimuli on attention of spider-fearful participants in a free-viewing paradigm**
Laura Ziegltrum[1], Marcel Linka[2], Kevin Lehrer, Filipp Schmidt[2], Anke Haberkamp
[1]Philipps-Universität Marburg (DE), [2]Justus-Liebig-Universität Gießen (DE)

44 **The role of stimulus-response mapping in serial dependence**
Yuri Markov[1], Natalia Tiurina[1], Gizay Ceylan[2], David Pascucci[3,4]
[1]Department of Psychology, Goethe University Frankfurt, Frankfurt am Main (DE), [2]Laboratory of Psychophysics, Brain Mind Institute, École Polytechnique Fédérale de Lausanne (EPFL) (CH), [3]Lausanne University Hospital (CH), [4]University Of Lausanne (CH)

46 **More Than Meets the Eye - Conceptual Beliefs Predict Naturalistic Face Impressions Across Cultures**
Barbora Illithová[1], Clare A. M. Sutherland[1]
[1]University of Aberdeen (UK)

48 **The Development of Mooney face Perception in 6-11-month-old infants**
Nanako Yamanaka[1], Yumiko Otsuka[2], Masaharu Kato[3], Nobu Shirai[1]
[1]Rikkyo University (JP), [2]Chukyo University (JP), [3]Doshisha University (JP)

50 **Influence of gaze cueing and semantic violations on visual memory and metamemory for real-world scenes**
Sara Spotorno[1], Adeel Khalid[2], Eunice G. Fernandes[3], Benjamin W. Tatler[4]
[1]Durham University (UK), [2]Keele University (UK), [3]University of Agder (NO), [4]University of Aberdeen (UK)

52 **Sense of embodiment and motor performance of the co-embodiment hands in a virtual environment**
Satoshi Toriumi[1], Yasunobu Katsumata[1], Yasuyuki Inoue[2], Harin Hapuarachchi[1], Michiteru Kitazaki
[1]Toyohashi University of Technology (JP), [2]Toyama Prefectural University (JP)

54 **The effect of face and language familiarity in the perception of audiovisual speech synchrony**
Yuta Ujiie[1], Kohske Takahashi[2]
[1]Rikkyo University (JP), [2]Ritsumeikan University (JP)

56 **Facial Identification in Peripheral Vision and Flashed Face Distortion Effect**
Momoka Suzuki[1], Yuta Ujiie[2], Kohske Takahashi[1]
[1]Ritsumeikan University (JP), [2]Rikkyo University (JP)

58 **An Exploratory Factor Analysis of Visuoperceptual Reading Symptoms in Adults with Visual Stress**
Darragh Harkin[1], Julie-Anne Little[1], Sara McCullough[1]
[1]Ulster University (UK)

60 **Action learning with unconscious stimuli: transfer across retinal location and orientation**
Jie Gao[1], Zhiqing Deng'[1], Jiantong Ye[1], Ruxiao Zhang[1], Juan Chen
[1]South China Normal University (CN)

62 **Foraging for famous faces: Exploring the interaction between facial expression and facial identity processing**
Nina Attard Montalto[1], Ian M. Thornton[1]
[1]University of Malta (MT)

64 **Does Perceptual Salience Explain Altered Social Categorisation in Children with Autism Spectrum Disorder?**
Lili Julia Feher[1], Ilona Kovács[2]
[1]HUN-REN-ELTE-PPKE Adolescent Development Research Group (HU), [2]Eötvös Loránd University, Budapest (HU)

66 **The association between sensory sensitivity, mental imagery abilities, and divergent perception**
Marloes Mak[1], Thijs van Laarhoven[2], Janina Neufeld[3,4], Reshanne Reeder[5], Corina U. Greven[6,7], Tessa Van Leeuwen[1]
[1]Department of Communication and Cognition, Tilburg University (NL), [2]Department of Cognitive Neuropsychology, Tilburg University (NL), [3]Karolinska Institutet (SE), [4]Swedish Collegium for Advanced Study (SE), [5]Department of Psychology, Institute of Population Health, University of Liverpool (UK), [6]Radboud University Medical Centre (NL), [7]Karakter Child and Adolescent Psychiatry University Centre (NL)

68 **Detecting motor perturbations across modalities and tasks**
Karl Kopiske[1], Carl Müller[1]
[1]Chemnitz University of Technology (DE)

70 **Larger bias in microsaccades during shifting than during sustaining covert visual-spatial attention**
Anna Van Harmelen[1], Freek van Ede[1]
[1]Vrije Universiteit Amsterdam (NL)

72 **The Role of Cognitive Control in Discrete Perception as Evidenced by Postdictive Illusions**
Mikhail Allakhverdov[1], Arsen Lokyan[1]
[1]Yerevan State University (AM)

74 **Comparing Social Gaze between Communication Media**
Zahra Hosseini[1], Kristen Lott[1], Nicholas Logan[1], Nikolaus F. Troje[2]
[1]York University (CA), [2]York University, Centre for Vision Research (CA)

76 **Psychophysics Reveals a Failure of Grouping in Current Deep Neural Networks**
Elsa Scialom[1], Ben Lonnqvist[1], Zehra Merchant[1], Martin Schrimpf[1], Michael Herzog[1]
[1]EPFL (CH)

78 **Representation of Sex from the Face and Body: Evidence from a Visual Adaptation Task**
Deyan Mitev[1], Kami Koldewyn[1], Paul Downing[1]
[1]Bangor University (UK)

106 **Reward enables learning of a salient but task-irrelevant visual feature through representation plasticity in V1**
Zhiyan Wang[1], Sinah Wiborg[1], Lea Hemesath[1], Anna-Mavie Beil[1], Stefanie Mayer, Mark W. Greenlee
[1]University of Regensburg (DE)

108 **Oscillatory and aperiodic mechanisms underlying domain-general attentional control**
Runhao Lu[1], Nadene Dermody[1], John Duncan[1], Alexandra Woolgar[1]
[1]University of Cambridge (UK)

110 **Effect of Distance on Visual-Haptic Integration in Thickness Perception**
Hiroaki Shigemasu[1], Yuhi Kira[1], Hiroshige Takeichi[2]
[1]Kochi University of Technology (JP), [2]RIKEN (JP)

112 **Assessing the relationship between central visual field loss, physical activity, and cognitive function**
Holly Brown[1], Eleanor Hoyle[1], Leah Kelly[2], Catherine Agathos[3], Natela Shanidze, Heidi Baseler
[1]University of Huddersfield (UK), [2]University of York (UK), [3]The Smith-Kettlewell Eye Research Institute (US)

114 **Influence of stimulus speed and individual differences on perception of visually-induced vection and motion sickness**
Polina Andrievskaia[1], Julia Spaniol[1], Stefan Berti[2], Behrang Keshavarz[1,3]
[1]Toronto Metropolitan University (CA), [2]Johannes Gutenberg-Universität Mainz (DE), [3]KITE Research Institute (CA)

116 **Investigating local and configural shape processing with Steady-State Visual Evoked Potentials**
Peter J. Kohler[1], Shaya Samet[1], Jasman Kahlon[1], Nicholas Baker[2], Erez Freud[1], James H. Elder[1]
[1]York University (CA), [2]Loyola University (US)

118 **Prioritized and non-prioritized features maintained in visual working memory differentially influence early visual processing**
Dan Wang[1], Samson Chota[1], Stefan Van der Stigchel[1], Surya Gayet[1]
[1]Utrecht University (NL)

120 **Cognitive visual acuity testing in amblyopia – comparison of VEP- and P300-based acuity measures**
Akshara Vaithiswari Gopiswaminathan[1], Julia Haldina[2,3], Khaldoon Al-Nosairy[1], Céline. Z Duval[2,3], Francie Stolle[1], Sven P. Heinrich[2,3], Michael B. Hoffmann[1,4]
[1]Department of Ophthalmology, Otto-von-Guericke University (DE), [2]Eye Center, Medical Center, University of Freiburg (DE), [3]Faculty of Medicine, University of Freiburg (DE), [4] Center for Behavioral Brain Science (DE)

122 **Functional correlates of multistable perception can be seen in single participant ERPs**
Mareike Wilson[1], Ellen Joos[2], Lillian Wolff[1], Ludger Tebartz van Elst[1], Jürgen Kornmeier
[1]Department of Psychiatry and Psychotherapy, University of Freiburg (DE), [2]Institute for Frontier Areas of Psychology and Mental Health (IGPP), Freiburg (DE)

124 **Top-down driven hallucinations increase with age**
Oris Shenyan[1], Matteo Lisi[2], John A. Greenwood[1], Laura Haye[1], Jeremy I. Skipper[1], Tessa M. Dekker[1]
[1]University College London (UK), [2]Royal Holloway, University of London (UK)

126 **The Buffon-McDougall Visual Phenomenon and Its Implication for the Cortical Origin of Afterimages**
Charles Wu[1]
[1]Perception and Cognition Research (US)

128 **Humans use mental simulation and eye movements to facilitate perceptual decision-making**
Emma Stewart[1], Ilja Wagner[2], Alexander Schütz[3], Roland Fleming[2]
[1]Queen Mary University of London (UK), [2]Justus-Liebig University Giessen (DE), [3]Phillips-University Marburg (DE)

130 **Apparent motion may trigger colour filling-in**
Rob van Lier[1], Simon Jan Hazenberg[1], Vebjørn Ekroll
[1]Donders Institute for Brain, Cognition and Behaviour (NL)

132 **Through the Lens of a Colour Blind: Exploring impacts of simulated colour blindness on schoolchildren**
Harpreet Dlay[1], Gabriele Jordan[1]
[1]Newcastle University (UK)

134 **Decoding emotional content of complex social scenes in the human brain and deep neural networks**
Elahe Yargholi[1], Laurent Mertens[1], Joost Vennekens[1], Jan Van den Stock[1], Hans Op de Beeck[1]
[1]KU Leuven (BE)

136 **Binocular Rivalry Priming Reveals the Dynamics of Mental Imagery**
Ágnes Welker[1], Orsolya Pető-Plaszkó[1], István Winkler[1], Ilona Kovács[2]
[1]HUN-REN-ELTE-PPKE Adolescent Development Research Group (HU), [2]Eötvös Loránd University (HU)

138 **Augmenting functional vision using automated tactile guidance**
Marcin Furtak[1,2], Florian Pätzold[1], Piper Powell[1], Milad Rouygari[1], Silke Kärcher[2], Peter König[1,3]
[1]Osnabrück University (DE), [2]feelSpace GmbH (DE), [3]University Medical Centre Hamburg-Eppendorf (DE)

140 **Object tracking without objects: Perceiving persistence defined by pure change**
Dawei Bai[1], Brian Scholl[1]
[1]Yale University (US)

142 **Effects of top-down attention on audiovisual binocular rivalry**
Kosuke Yamamoto[1], Katsumi Watanabe[1]
[1]Waseda University (JP)

144 **Shape-specific chromatic adaptation precedes history biases in color perception**
Toni Saarela[1], Maria Olkkonen[1]
[1]University of Helsinki (FI)

146 **Pre-stimulus alpha oscillations encode stimulus-specific visual predictions**
Dorottya Hetenyi[1], Joost Haarsma[1], Peter Kok[1]
[1]University College London (UK)

148 **Neural Dynamics of Part-Based Face Perception**
Yasemin Gunindi[1], Çiçek Güney[1], Huseyin Ozkan[1], Nihan Alp[1]
[1]Sabanci University (TR)

150 **The Feature Filtering Function from Consciousness to Working Memory**
Zefan Zheng[1], Darinka Trübutschek[1], Jaan Aru[2], Lucia Melloni[1]
[1]Max Planck Institute for Empirical Aesthetics (DE), [2]University of Tartu (EE)

152 **Kinematic Features Influencing Affective Responses to Bodily Motion in Shorinji-Kempo Martial Artists**
Mikiko Kashiwai[1], Hirokazu Doi[1]
[1]Nagaoka University of Technology (JP)

154 **Core neural dimensions of functionally selective areas in the human visual cortex**
Leonard van Dyck[1], Martin N. Hebart[1], Katharina Dobs[1]
[1]Justus Liebig University Giessen (DE)

156 **The influence of dimmed lighting conditions on naturalistic obstacle negotiation in young and older adults**
Danishta Kaul[1], Alexander Brownlee[1], Magdalena Ietswaart[1], Gemma Learmonth[1]
[1]University of Stirling (UK)

158 **Hierarchical cortical entrainment orchestrates the multisensory processing of biological motion**
Li Shen[1], Shuo Li[1], Yuhao Tian[1], Ying Wang[1], Yi Jiang[1]
[1]Institute of Psychology, Chinese Academy of Sciences (CN)

160 **Beneath the Surface: Feature Synergy Improves Texture Segregation but not Shape Perception**
Cordula Hunt[1], Günter Meinhardt[1]
[1]Johannes Gutenberg University Mainz (DE)

Tuesday 27th August

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

1 **Searching for color with color-enhancing filters**
Camilla Simoncelli[1], Don McPherson[2], Kenneth Knoblauch[3], Michael A. Webster[1]
[1]University of Nevada Reno (US), [2]Chief Science Officer EnChroma (US), [3]Inserm U 1208, Stem-cell and Brain Research Institute (FR)

3 **Visual encoding of social interactions in body-selective human brain regions**
Paul Downing[1], Ilona Martynenko[2]
[1]Bangor University (UK), [2]Osnabrück University (DE)

5 **Saccade kinematics and post-saccadic oscillations in retinitis pigmentosa and age-related macular degeneration**
Jeroen Goossens[1], Leslie Guadron[1], Samuel Titchener[2], Carla Abbott[3], Lauren Ayton[3], John van Opstal[1], Matthew Petoe[2]
[1]Donders Institute (NL), [2]Bionics Institute (AU), [3]University of Melbourne (AU)

7 **Visual feedback codes during amodal completion and visual imagery**
Yingying Huang[1], Yulia Lazarova[1], Angus Paton[1], Clement Abbatecola[1], Lucy Petro[1], Lars Muckli[1]
[1]University of Glasgow (UK)

9 **Ideal population orientation coding in macaque V1 explored with a self-attention DNN model**
Xin Wang[1], Cai-Xia Chen[1], Shi-Ming Tang[1], Cong Yu[1]
[1]Peking University (CN)

11 **Exploring new methods to re-construct artwork for vision research**
Johannes Zanker[1], Doğa Gülhan[1]
[1]RHUL (UK)

13 **Differential Event-Related and Oscillatory Components of EEG Response to Emotional Body Movement**
Catherine Reed[1], Chandlyr Denaro[1], Alison Harris[1]
[1]Claremont McKenna College (CA)

15 **Attention Distorts Space, Including Cross-Modal Illusions**
Su-Ling Yeh[1], Chen-Wei Huang[1]
[1]National Taiwan University (TW)

17 **Is visual exploration on smartphones comparable to that on computers?**
Thomas Le Bras[1], Benoit Allibe[2], Karine Doré-Mazars[1]
[1]Vision Action Cognition Laboratory (FR), [2]AB Tasty (FR)

19 **The correspondence of prior audio-visual information influences rule-based category learning**
Alan O'Dowd[1], Rebecca J Hirst[1], Fiona N Newell[1,2]
[1]Trinity College Dublin (IE), [2]NYU Abu Dhabi (AE)

21 **Predicting "Aha!" moments by facial expressions**
Koshi Akedo[1], Yasuhiro Hatori[2], Yoshiyuki Sato[2], Chia-huei Tseng[2], Satoshi Shioiri
[1]Graduate School of Information Science, Tohoku University (JP), [2]Research Institute of Electrical Communication, Tohoku University (JP)

23 **Measuring time-dependent evidence accumulation based on confidence reports**
Sascha Meyen[1], Carina Schrenk[1], Madeleine Soukup[1], Volker H. Franz[1]
[1]University of Tübingen (DE)

25 **Surviving continuous flash suppression: A two-photon calcium imaging study in macaque V1**
Caixia Chen[1], Xin Wang[1], Danqing Jiang[1], Shenghui Zhang[1], Shiming Tang[1], Cong Yu[1]
[1]Peking University (CN)

27 **Comparing method of adjustment and continuous psychophysics for assessing the perceptual size-distance relationship**
Jong-jin Kim[1], Laurence Harris[2]
[1]York University, Toronto (CA), [2]Centre for Vision Research, York University, Toronto (CA)

29 **Separating out distractor suppression from attentional guidance using predictability of feature and location**
Hannah Grace Jaison[1], Meera Mary Sunny[1]
[1]Indian Institute of Technology, Gandhinagar (IN)

31 **Why does touch interfere differentially with multiple-object tracking performance?**
Mallory Terry[1], Lana M. Trick[1]
[1]University of Guelph (CA)

33 **Blink-initiated behavioral oscillation of detection performance at alpha rhythms**
Yuki Murai[1]
[1]National Institute of Information and Communications Technology (JP)

35 **Gravity as a cue to distance or speed in motion perception**
Fatma Kilic[1], Fulvio Domini[2], Roland W. Fleming[1]
[1]Justus-Liebig-Universität Giessen (DE), [2]Brown University (US)

37 **Visually-guided natural human grasping with articulated hands**
Frieder Hartmann[1], Guido Maiello[2], Fabrizio Lepori[2], Constantin A. Rothkopf[3], Roland W. Fleming[1]
[1]Justus Liebig University Giessen (DE), [2]University of Southampton (UK), [3]Technical University of Darmstadt (DE)

39 **Causality perception and sensory predictions are subject to different sources of uncertainty**
Lina Eicke-Kanani[1], Yunyan Duan[1], Thomas Wallis[1]
[1]Technical University Darmstadt (DE)

41 **Test-Retest Reliability for Multiple-Target Visual Search: Eye-Tracking and Performance Metrics**
Kayley Birch-Hurst[1], Jamie Cooper[1], Isabella Foot[1], Oli Muckleston[1], Kait Clark[1]
[1]University of the West of England (UK)

43 **Perceived height of trees standing on flat or sloped ground: a variation of horizontal-vertical illusion**
Atsuki Higashiyama[1]
[1]Ritsumeikan University (JP)

45 **The Long-Term Influence of Red, Blue, and Green on Eye-Hand Coordination training**
Zainab Alrubaye[1], Anıl Ufuk Batmaz[2], Banu Manav[1]
[1]Kadir Has University (TR), [2]Concordia University (CA)

47 **Experience-dependent biases in face discrimination reveal associations between perceptual specialization and narrowing**
Marissa Hartston[1], Tal Lulav-Bash[1], Yael Goldstein-Marchoson[1], Galia Avidan[2], Bat Sheva Hadad[1]
[1]University of Haifa (IL), [2]Ben Gurion University (IL)

49 **Investigating the effect of hemispheric dominance on perceptual bias in 3D shape-from-shading: Evidence from left-handers**
Marjola Peça[1], Ayelet Sapir[1]
[1]Bangor University (UK)

51 **Categorizing Deterministic Errors and Stochastic Errors in Visual Search**
Aoqi Li[1], Johan Hulleman[1], Jeremy Wolfe[2]
[1]University of Manchester (UK), [2]Harvard Medical School (US)

53 **Optic flow parsing in Persistent Postural Perceptual Dizziness (PPPD) – a pilot study**
Joshua Haynes[1], Monty Silverdale[1], James Lilleker[1], Debbie Cane[1], Rosa Crunkhorn[3], Alan Carson[2], Paul Warren[1]
[1]University of Manchester (UK), [2]University of Edinburgh (UK), [3]Guy'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 Logan[1], Kristen Lott[1], Zahra Hosseini[1], Nikolaus F. Troje[1]
[1]York University (CA)

57 **Feedback-based training improves the accuracy of stimulus memorability judgments**
Cambria Revsine[1], Wilma Bainbridge[1]
[1]University of Chicago (US)

59 **Pseudo-cost of acting biases perceptual decision making**
Kyoko Hine[1], Iori Hida[1], Shigeki Nakauchi[1]
[1]Toyohashi University of Technology (JP)

61 **The oblique effect in motion detection and identification - a neural and behavioural investigation**
Danai Papadaki[1], Ramakrishna Chakravarthi[1], Karin S. Pilz[2]
[1]University of Aberdeen (UK), [2]Cito Institute for Educational Measurement (NL)

63 **Interaction of hand posture and kinematics dimensions during retrieval of action tool knowledge**
Mathieu Lesourd[1], François Osiurak[2]
[1]Umr Inserm 1322 Linc (FR), [2]Université Lyon (FR)

65 **Probing Material Perception and Categorization using AI-Generated Images**
Jacob Cheeseman[1], Filipp Schmidt[1], Chenxi Liao[2], Bei Xiao[2], Roland Fleming[1]
[1]Justus Liebig University Giessen (DE), [2]American University (US)

67 **Duration and luminance intensity of chromatic environments interact to alter our perception of colour**
Erin Warden-english[1], Antony Morland[1], Heidi Baseler[1]
[1]University of York (UK)

69 **Forward and backward alpha-band travelling waves reflect temporal expectations in a statistical learning paradigm**
Martina Pasqualetti[1], Andrea Alamia[1]
[1]CNRS, CerCo (FR)

71 **Action video games improve phonemic awareness in pre-reader children at risk for developmental dyslexia**
Simone Gori[1], Sara Bertoni,[1], Chiara Andreola[4], Sara Mascheretti[5], Sandro Franceschini[6], Milena Ruffino[7], Vittoria Trezzi[2], Massimo Molteni[2], Maria Enrica Sali[2], Antonio Salandi[2], Ombretta Gaggi[3], Claudio Palazzi[3], Andrea Facoetti[3]
[1]University of Bergamo (IT), [2]IRCCS E. Medea (IT), [3]University of Padua (IT), [4]Université Paris Cité (FR), [5]University of Pavia (IT), [6]Sigmund Freud University (AT), [7]ASST Valle Olona (IT)

73 **Gaze Following in Complex Virtual Environments: Comparing Human and Robot Avatars**
Jochen Miksch[1], Inka Schmitz[1], Wolfgang Einhäuser-Treyer[1]
[1]Chemnitz University of Technology (DE)

75 **I feel it is true! Emotion-Based Predictors of Photos' Authenticity Perception**
Beata Pacula[1], Agata Szymańska[1], Joanna Pilarczyk[1], Tomasz Kulczycki[1], Laurent Beaupoil[1], Michał Kuniecki[1]
[1]Jagiellonian University (PL)

77 **I (don't) see it in your face: Limited integration of context in dynamic emotion perception**
Igne Jasukaityte[1], Margaret Jackson[1], Patric Bach[1]
[1]University of Aberdeen (UK)

79 **Perception of the Relative Size of Volumetric Shapes in Virtual Reality**
Iroshini Gunasekera[1], Xue Teng[1], Faruq Afolabi[1], Romina Abadi[1], Robert S Allison[1], Laurie M Wilcox[1]
[1]York University (CA)

81 **Augmented Identity: Unveiling the Influence of Cybernetic Enhancements on Personality Perception**
Mattis Jost[1], Niklas Döbler[1], Claus-Christian Carbon[1]
[1]Otto-Friedrich-Universität Bamberg (DE)

83 **Both central tendency bias and serial dependence affect judgements about orientation and hue**
Saija Niemi[1], Maria Olkkonen[1], Toni Saarela[1]
[1]University of Helsinki (FI)

85 **Characterising time-on-task effects on oscillatory and aperiodic EEG components during visual task performance**
Martina Kopcanova[1], Gregor Thut[2], Christopher Benwell[1], Christian Keitel[1]
[1]University of Dundee (UK), [2]University of Glasgow (UK)

87 **Audio-visual integration during knowledge activation in real-world scene processing**
Krystian Ciesielski[1], Sara Spotorno[2]
[1]Keele University (UK), [2]Durham University (UK)

89 **Around the Clock: Physiological Markers of Lapses in Attention During Sustained Task Performance**
Emily Cunningham[1], Magdalena Ietswaart[1], Christian Keitel[2]
[1]University of Stirling (UK), [2]University of Dundee (UK)

91 **Evaluation of region-of-use in spectacle lenses with eye-tracking technology**
Marta Álvarez[1], Clara Benedi-Garcia[1], Pablo Concepcion-Grande[1], Carmen Cano[1], Amelia González[1], José Miguel Cleva[1], Eva Chamorro[1]
[1]IOT (ES)

93 **Probing object and scene meaning in visual search: a quasi-experimental approach**
Antje Nuthmann[1], Anton Janser
[1]Kiel University (DE)

95 **Effect of discrete and continuous movements on visual time perception**
Xuening Li[1], Elise Abou Mrad[1], Louis Garcia[1], Robin Baurès[1], Joseph Tisseyre[2], Sylvain Cremoux[1]
[1]Centre de Recherche Cerveau & Cognition (FR), [2]Toulouse Neuro Imaging Center (FR)

97 **From movement vigor to "perceptual vigor": Eye movements alter the postdictive window of visual awareness**
Joan Danielle K. Ongchoco[1], Martin Rolfs[1]
[1]Humboldt-Universität zu Berlin (DE)

99 **Measuring melanopsin modulation of V1 responses using fMRI**
Lauren Welbourne[2], Joel Martin[1], Alex Wade[2], Federico Segala[2], Annie Morsi[2], Daniel Baker[2]
[1]University of Edinburgh (UK), [2]University of York (UK)

101 **Brief Non-Spatial Cues Facilitate Search Performance in Dynamic Environments with Robots**
Bora Celebi[1], Julian Kaduk[2], Müge Cavdan[1], Heiko Hamann[3], Knut Drewing[1]
[1]Justus Liebig University Giessen (DE), [2]University of Lübeck (DE), [3]University of Konstanz (DE)

103 **Does implicit prior information about compliance contribute to exploratory force control in active touch?**
Didem Katircilar[1], Knut Drewing[1]
[1]Justus Liebig University Giessen (DE)

105 **Jade: a real-time, VR-ready gaze event detector**
Mark Shovman[1]
[1]Eyeviation Ltd (IL)

107 **The influence of task engagement on time perception**
Maria Michela Del Viva[1], Ottavia D'agostino[1], Serena Castellotti[2]
[1]University of Florence (IT), [2]University of Pisa (IT)

109 **"Oh They Can Draw!"- Does Representational Context Affect Viewers Judgement of Abstract Art?**
Clare Kirtley[1]
[1]University of Aberdeen (UK)

111 **Pattern motion and optic flow analyses automatically acquired by decoding self-motion during natural motor actions**
Hiroaki Gomi[1]
[1]NTT Communication Science Labs (JP)

113 **Insights into Antisaccade Performance and Motion Extrapolation in Hemianopia Patients**
Luca Battaglini[1], Marianna Musa[1], Francesco Costalunga[1]
[1]University of Padova (IT)

115 **Multicenter Assessment Pattern Reversal Visual Evoked Potentials in Children: Establishing Reference Intervals and Clinical Utility**
Eszter Mikó Baráth[1], Dorothy A. Thompson[2], Sharon E. Hardy[3], Gábor Jandó[4], Martin Shaw[5], Ruth Hamilton[5]
[1]University Of Pécs, Medical School (HU), [2]The Tony Kriss Visual Electrophysiology Unit, Clinical and Academic, Department of Ophthalmology, Great Ormond Street Hospital (UK), [3]University College London Hospitals NHS Foundation Trust (UK), [4]Institute of Physiology, Medical School, University of Pécs (HU), [5]Department 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 Williams[1], Sage E. P. Boettcher[1], Anna C. Nobre[2]
[1]University of Oxford (UK), [2]Yale University (US)

119 **A comparative study of the perceptual quality and aesthetic attributes across Tone-Mapping Operators**
Alejandro Parraga[1], Pau Blasco Roca[2], Xim Cerdà Companys[1], Xavier Otazu Porter[1]
[1]Computer Vision Center (ES), [2]Univ. Autònoma de Barcelona (ES)

121 **Elevated Peripheral Crowding in Pre-Perimetric Glaucoma Evaluated Using Eye-Movement and Manual Response Paradigms**
Dilce Tanriverdi[1], Khaldoon Al-Nosairy[2], Michael B. Hoffmann[2], Frans W. Cornelissen[1]
[1]University Medical Center Groningen (NL), [2]Otto-von-Guericke University (DE)

123 **Right in front of your nose: attention and decision making in dressage judging?**
Peter Reuter[1], Yulia Zaharia[1], Inga Wolframm[1]
[1]Van Hall Larenstein University (NL) /Tobii (SE)

125 **Intergroup processes and the happy face advantage**
Doug Martin[1]
[1]University of Aberdeen (UK)

127 **Synthetic information processing: role of input and observer characteristics**
Meike Ramon[1]
[1]Applied Face Cognition Lab, University of Lausanne (CH)

129 **Configurations in Motion: Investigating the Relative Impact of Stimulus Characteristics on Motion perception**
Simon Merz[1]
[1]University of Trier (DE)

131 **Comparing functional performance effects of VR-simulated static and dynamic visual disturbances**
Paul Warren[1], Christine Dickinson[1], Neil Parry[1,2], Boris Otkhmezuri[1], Graham Bell, Joshua D Haynes
[1]University of Manchester (UK), [2]Manchester Royal Eye Hospital (UK)

133 **A hierarchical efficient Bayesian observer model predicts attractive and repulsive history effects in multistable perception**
Eline Van Geert[1], Tina Ivančir[1], Johan Wagemans[1]
[1]KU Leuven (BE)

135 **Saccade execution and inhibition shorten the perceived duration of peripheral stimuli**
Alina Krug[1], Lisa Eberhardt[1], Manuel Rindle[1], Anke Huckauf[1]
[1]Ulm University (DE)

137 **Foveal feedback effects in an offset discrimination task with flanker interference**
Roberta Cessa[1], Martina Morea[2], Michael Herzog[2], Marco Bertamini[1]
[1]University of Padua (IT), [2]EPFL (CH)

139 **Colouring words with gaze: A novel approach to enhance reading skills in beginner readers**
Koen Rummens[1], Sofie Beier[1]
[1]Centre for Visibility Design, Royal Danish Academy (DK)

141 **The relationship between Multiple Object Tracking and cognitive task performance in children and adults**
Julia Föcker[1], Hauke Meyerhoff[2], Elena Nava[3]
[1]University of Lincoln (UK), [2]University of Erfurt (DE), [3]University of Milan-Bicocca (IT)

143 **Defining a functional hierarchy of millisecond time: from processing to perception**
Valeria Centanino[1], Gianfranco Fortunato[1], Domenica Bueti[1]
[1]International School for Advanced Studies (SISSA) (IT)

145 **Paradigm-dependent isolation of perceptual correlates with fMRI**
Georgia Milne[1], Roni Maimon-Mor[1], Hugo Chow-Wing-Bom[1], Tessa Dekker[1]
[1]UCL (UK)

147 **Adaptation leads to faster reaction times in a face search task**
Fang Jiang[1], Idris Shareef[1], Michael Webster[1], Alireza Tavakkoli[1]
[1]University of Nevada (US)

149 **GramStatTexNet Extended: Evaluating the Relative Importance of Gram Matrix Statistics for Texture Models**
Vasha DuTell[1], Christian Kovesdi[1], Anne Harrington[1], Mark Hamilton[1], Zeyu Yun[2], William T Freeman[1], Ruth Rosenholtz[1]
[1]MIT (US), [2]UC Berkeley (US)

151 **Testing Driver Monitoring Systems and Driving Distractions via a Customised Robotics and VR Setup**
Jiacheng Liu[1], Zirui Bai[1], Shihao Gan[1], Yue Li[1], Fan Zhang[1]
[1]Xi'an Jiaotong-Liverpool University (CN)

153 **Seeing gender stereotypes: The role of second-order head/facial features**
Daniele Zavagno[1], Federico Paulesu[1], Rossana Actis-Grosso[1]
[1]University of Milano-Bicocca (IT)

155 **Different temporal dynamics of perceptual distortion of visual space inside and outside of objects**
Akira Sarodo[1], Kentaro Yamamoto[2], Saki Takao[3], Katsumi Watanabe[1]
[1]Waseda University (JP), [2]Kyushu University (JP), [3]University of Tokyo (JP)

157 **The detrimental use of redundant motion signals in car direction indicators**
Thomas Otto[1], Yi Ren[1]
[1]University of St Andrews (UK)

159 **Perception of emotional states based on eye regions in 5- to 10-year-olds and adults**
Tomoko Imura[1], Yuiko Kanamori[1], Yoshiyuki Ueda[2], Nobu Shirai[3]
[1]Japan Women's University (JP), [2]Kyoto University (JP), [3]Rikkyo University (JP)

161 **The effects of colour desaturation of food images on approach behaviour**
Daniela Ruseva[1], Martin Giesel[1], Constanze Hesse[1]
[1]University 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]
[1]Université 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 Alamia[1]
[1]Cerco – CNRS (FR)

What can oscillation phase tell us about traveling waves - perspective from MEG
Satu Palva[1]
[1]University of Helsinki (FI)

Mapping neural mechanisms of travelling waves using MEG
Alexander Zhigalov[1], Ole Jensen[2]
[1]Aston University (UK), [2]University of Birmingham (UK)

How travelling waves in the visual cortex participate in processing visual motion
Frederic Chavane[1]
[1]CNRS & 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 Bhatia[1], Angela Osenberg[1], Markus Janczyk[2], Volker H. Franz[1]
[1]University of Tuebingen (DE), [2]University of Bremen (DE)

10.45 **Scene gist: the rapid acquisition of information for grasping**
Kimberley Stanford[1], Simon Rushton[1], Eli Brenner[2]
[1]Cardiff University (UK), [2]Vrije Universiteit Amsterdam (NL)

11.00 **Visually guided grasping survives large bilateral lesions of the occipitotemporal cortex: Behavioural and neuroimaging evidence**
Ana Torres Cresto[1], Marine Keime[1], Cassandra Sampaio-Baptista[1], Alessandro Vinciarelli[1], Melvyn A. Goodale[2], Jody C. Culham[2], Monika Harvey[1]
[1]University of Glasgow (UK), [2]University of Western Ontario (CA)

11.15 **A new model of perceived weight: The size-weight illusion and beyond**
Veronica Pisu[1], Erich Graf[1], Wendy Adams[1]
[1]University of Southampton (UK)

11.30 **Is Visuo-Haptic Mental Imagery Related to the Strength of the Size-Weight Illusion?**
Guido Maiello[1], Veronica Pisu[1], Fabrizio Lepori[1], Carmen Surariu[1], Chloe Lam[1], Paul Conway[1]
[1]University of Southampton (UK)

11.45 **Postural demands influence head contributions during visual tracking**
Petros Georgiadis[1], Katja Fiehler[1], Vassilia Hatzitaki[2], Dimitrios Voudouris[1]
[1]Justus Liebig University Giessen (DE), [2]Aristotle 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 Hoffmann[1], Barbara Molz[7], Anne Herbik[1], Heidi Baseler[7], Peter de Best[6], Noa Raz[6], Andre Gouws[7], Khazar Ahmadi[1], Rebecca Lowndes[7], Rebecca McLean[2], Irene Gottlob[2], Susanne Kohl[3], Lars Choritz[1], John Maguire[4], Martin Kanowski[1], Barbara Käsmann-Kellner[5], Ilse Wieland, Eyal Banin[6], Netta Levine[6], Antony Morland[7]
[1]Magdeburg University (DE), [2]Leicester University (UK), [3]Tübingen University (DE), [4]Bradford University (UK), [5]Saarland University (DE), [6]Hadassah Medical Center (IL), [7]York University (CA)

Structural differences in adult visual cortex following development without functional cone input
Heidi Baseler[1], Barbara Molz[7], Rebecca Lowndes[1], Anne Herbik[2], Lucy Warriner[1], Pieter de Best[8], Richard Vernon[1], Noa Raz[8], Andre' Gouws[1], Khazar Ahmadi[2], Rebecca McLean[3], Irene Gottlob[3], Susanne Kohl[4], Lars Choritz[2], John Maguire[6], Martin Kanowski[2], Barbara Kasmann-Kellner[5], Ilse Wieland[2], Eyal Banin[8], Netta Levin[8], Michael Hoffmann[2], Antony Morland[1]
[1]University of York (UK), [2]Otto-von-Guericke University (DE), [3]University of Leicester (UK), [4]University Clinics Tübingen (DE), [5]Saarland University Hospital (DE), [6]University of Bradford (UK), [7]Max Planck Institute for Psycholinguistics (DE), [8]Hadassah Medical Center (IL)

Approaches and challenges to measuring cone-specific responses in clinical populations
Geoffrey Aguirre[1]
[1]University of Pennsylvania (US)

Cone-mediated visual function after gene therapy in achromatopsia
Tessa Dekker[1], Roni Maimon-Mor[1], Mahtab Farahbakhsh[1], Elaine Anderson[1], Nicholas Hedger[2], Tomas Knapen[3], Sam Schwarzkopf[4], Andy Rider[1], Geraint Rees[1], Michel Michaelides[1]
[1]University College London (UK), [2]University of Reading (UK), [3]University of Amsterdam (NL), [4]University of Auckland (NZ)

Following gene augmentation therapy: cone-mediated vision and its limits after a lifetime of rod monochromacy
Ayelet Mckyton[1], Eyal Banin[1], Netta Levin
[1]Hadassah Medical Center (IL)

Spotlight in Vision Lecture
13.30–15.00 (Room 1)

Modelling Vision in the Face of Large Language Models
Tim Kietzmann[1]
[1]University 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 Rogers[1], Patrick Hughes[2], Thomas Papathomas[3]
[1]University of Oxford (UK), [2]Reverspective Ltd. (UK), [3]Rutgers University (US)

4 **Investigation of the Interplay Between Natural and Learned Priors in Autistic and Non-Autistic Individuals**
Laurina Fazioli[1], Bat-Sheva Hadad[1], Amit Yashar[1]
[1]University of Haifa (IL)

6 **Journey towards restoration: Does statistical stability in a train of natural scenes benefit cognition?**
Shoaib Nabil[1], Monica Pantiru[1], Sophie Forster[1], John Maule[1]
[1]University of Sussex (UK)

8 **An adaptable spatial metric is sensitive to adaptor orientation**
Kristian Skoczek[1], Paul McGraw[1], Neil Roach[1], Alan Johnston[1]
[1]University of Nottingham (UK)

10 **Numerosity Is Driven By Intermediate Visual Representations**
Elias Wahl[1], Sari Saba-Sadiya[1], Thomas Chapalain[2], Evelyn Eger[2], Gemma Roig[1]
[1]Goethe University (DE), [2]INRIA Saclay, NeuroSpin (FR)

12 **Comparable colour constancy for average colour and single colour percepts**
Lari Virtanen[1], Toni Saarela[1], Maria Olkkonen[1]
[1]University of Helsinki (FI)

14 **Facial expression recognition with regard to faces behind observers**
Hideki Tamura[1], Yugo Kobayashi[1], Shigeki Nakauchi[1], Tetsuto Minami[1]
[1]Toyohashi University of Technology (JP)

16 **Temporal dynamics of representations shared between visual perception and imagery**
Carolina Libertad Shimabukuro[1], Radoslaw Martin Cichy[1]
[1]Freie Universität Berlin (DE)

18 **Exploring emotional dimensions and colorimetric structures of abstract paintings through psychophysical scale**
Carlo Martins Gaddi[1], Marcelo Fernandes da Costa[1]
[1]University of São Paulo (BR)

20 **Image statistics and the visibility of distortions in things and stuff**
Swantje Mahncke[1], Lina Eicke-Kanani[1], Thomas S. A. Wallis[1]
[1]Technical University Darmstadt (DE)

22 **Comparison of left-visual-field bias in autistic individuals in 3D VR environments versus a 2D task**
Hana Alarifi[1], Carlo Campagnoli[1]
[1]University of Leeds (UK)

24 **Looking down: Downcast gaze influences the believability of happiness and sadness in computer-generated faces**
Julia Haile[1], Romina Palermo[1], Amy Dawel[2], Eva Krumhuber[3], Clare Sutherland[4,1], Jason Bell[1]
[1]University of Western Australia (AU), [2]Australian National University (AU), [3]University College London (UK), [4]University of Aberdeen (UK)

26 **Visual factors influence perceived time of eye movement but not visuo-motor temporal recalibration**
Wiebke Noerenberg[1], Richard Schweitzer[2], Martin Rolfs[1]
[1]Humboldt-Universität zu Berlin (DE), [2]Università degli Studi di Trento (IT)

28 **Asymmetric effect of Action-Effect uncertainty and feature uncertainty on action effect binding**
Meera Sunny[1], Rajalakshmi Usha[1], Neeraj Kumar[2]
[1]IIT Gandhinagar (IN), [2]IIT Hyderabad (IN)

30 **Pre-attentive computation of density-defined motion**
Joshua Solomon[1], Fintan Nagle[1]
[1]City St George's, University of London (UK)

32 **About cross-modal commutativity in magnitude production**
Dorina Kohler[1]
[1]University of Tübingen (DE)

34 **Population coding for figure-ground texture segregation in macaque V1 and V4**
Xing-Nan Zhao[1], Xing-Si Dong[1], Si Wu[1], Shi-Ming Tang[1], Cong Yu[1]
[1]Peking University (CN)

36 **Brain regions representing numerosity across the senses and presentation formats**
Ying Yang[1], Michele Fornaciai[1], Irene Togoli[1], Iqra Shahzad[1], Alice Van Audenhaege[1], Filippo Cerpelloni[3], Olivier Collignon[1,2]
[1]UCLouvain (BE), [2]The Sense Innovation and Research Center, HES-SO Valais-Walis (Lausanne and Sion) (CH), [3]KULeuven (BE)

38 **Location-specific improvements in spatial attention induced by training on a crowding task**
Elena von Perponcher[1], Kim Kessler[1], Konstantin Maier[1], Mark Greenlee[1], Tina Plank[1]
[1]University of Regensburg (DE)

40 **Direction congruency in the Motion-Bridging-Effect: The transfer of unconscious direction information from a spinning ring**
Lotta Ottensmeyer[1], Robert Fendrich[1], Uwe Mattler[1]
[1]Georg-August-University Göttingen (DE)

42 **Can activated long-term memory content influence target verification in visual search?**
Maxim Morozov[1]
[1]RANEPA (RU)

44 **Modeling the Relationship Between Stimulus Characteristics and Visual Attention: An Eye-Tracking Study**
Ela Berger[1], Michal Hochhauser[1]
[1]Department of Occupational Therapy, Ariel University (IL)

46 **Scene context influences gaze orientation on objects in peripheral vision**
Eva Aprile[1], Nathalie Guyader[2], Alexia Roux-Sibilon[3], Louise Kauffmann[2], Carole Peyrin[2]
[1]CNRS UMR5105 (FR), [2]Université Grenoble Alpes, CNRS, Grenoble INP, GIPSA –Lab (FR), [3]Université Clermont-Auvergne, CNRS, LAPSCO (FR)

48 **Light-level dependent changes in the temporal properties of the center mechanism of cat X-cells**
John Troy[1], Lisa Diller
[1]Northwestern University (US)

50 **Two-dimensional sound cues can speed visual search**
Alberto Mariconda[1], Mauro Murgia[1], Valter Prpic[2], Tiziano Agostini[1], Ian M. Thornton[3]
[1]University of Trieste (IT), [2]Department of Philosophy and Communication Studies, University of Bologna (IT), [3]Department of Cognitive Science, University of Malta (MT)

52 **Evaluating Dynamic Random Dot Stimuli for Binocularity Assessment: Toward a Standardized Clinical Protocol**
János Radó[1], Eszter Mikó-Baráth[2], Peter Hegyi[2], Vanda A. Nemes[2], Péter Buzás[2], Gábor Jandó[2]
[1]University of Pécs (HU), [2]Institute of Physiology, Medical School, University of Pécs (HU)

54 **Motor-related subcortical pathways are involved in subjectively unconscious tool processing**
Zhiqing Deng[1], Fuying Zhu[1], Jie Gao[1], Zhiqiang Chen[2], Peng Zhang, Juan Chen
[1]South China Normal University (CN), [2]University of Chinese Academy of Sciences (CN)

56 **Behavioural relevance of foveal cortex processing for haptic size estimation**
Samantha Sartin[1], Domenico Dal Monte[2], Fabio Del Giudice[1], Laura Caleca[2], Greta Mattioli[2], Elena Prosperi[2], Federica Carini[2], Federica Danaj[3], Irene Sperandio[2], Simona Monaco[1]
[1]CIMeC (Center for Mind and Brain Sciences) (IT), [2]University of Trento (IT), [3]University of Regensburg (DE)

58 **Effects of adaptation to a hue-rotated altered-reality environment on categorical colour constancy and unique hues**
Yesesvi Konakanchi[1], Jenny Bosten[1], Anna Franklin[1], John Maule[1]
[1]University of Sussex (UK)

60 **Uncertainty processing in Schizophrenia - electrophysiological evidence of alterations in intensity and temporal precision**
Ellen Joos[1], Estelle Koning[2], Camille Scherer[2], Mareike Wilson[3], Ludger Tebartz van Elst, Anne Giersch, Jürgen Kornmeier
[1]Institute For Frontier Areas of Psychology and Mental Health (IGPP) (DE), [2]INSERM U1114, Cognitive Neuropsychology and Pathophysiology of Schizophrenia (FR), [3]Department of Psychiatry and Psychotherapy, University of Freiburg (DE)

62 **Monocular delay during active vision shifts ocular dominance**
Giacomo Pennella[1], Cecilia Steinwurzel[2], Giulio Sandini[3], Maria Concetta Morrone[2], Paola Binda[2]
[1]University of Florence (IT), [2]University of Pisa (IT), [3]Research Unit of Robotics, Brain, and Cognitive Sciences (RBCS), Istituto Italiano di Tecnologia (IT)

64 **Exploring Non-Human Primate Symmetry Perception**
Pauline Audurier[1], Vincent D. Costa[1], Robert M. Friedman[1]
[1]Oregon National Primate Research Center (US)

66 **Impact of rhythmic movements on perception of realness of silicone-based artificial skin**
Soyogu Matsushita[1]
[1]Osaka Shoin Women's University (JP)

68 **Dot clouds' perceived area for varying regularity is greater than that of respective convex hull polygons**
Emmanouil D. Protonotarios[1], Kalliopi M. Protogeraki[1]
[1]National & Kapodistrian University of Athens (GR)

70 **Subsequence search errors are less for targets embedded in a collinearly grouped structure**
Li Jingling[1]
[1]China Medical University (CN)

72 **Human Attention is All You Need: Fine-tuning Image Encoder with Attention Heatmaps**
Anna Antipova[1], Ilia Nachevskiy[2]
[1]Pirogov Russian National Research Medical University (RU), [2]Russian Academy of Sciences (RU)

74 **The task effect on Main Sequence**
Chuyao Wang[1], Anne Guérin Dugué[1], Louise Kauffmann[2], Nathalie Guyader[1]
[1]Gipsa Lab (FR), [2]Université Grenoble Alpes (FR)

76 **Do we judge robots like humans when they give us incorrect information?**
Mae Bernard[1], Rachel Newey[1], Paul Rauwolf[1], Kami Koldewyn[1]
[1]Bangor University (UK)

78 **Using Visual Category Learning to Evaluate Category Representations in Conditional Generative Adversarial Networks**
Victor Navarro[1], Christoph Teufel[1]
[1]Cardiff University (UK)

80 **Looking from different angles: Alternative perimetry methods complement each other**
Henning Schulte[1], Yuqing Cai[2], Birte Gestefeld[1], Christoph Strauch[2], Jan-Bernard Marsman[1], Stefan van der Stigchel[2], Jeroen Goossens[3], Teuni ten Brink[2], Frans W. Cornelissen[1], Marnix Naber[2]
[1]UMC Groningen (NL), [2]Utrecht University (NL), [3]Donders Institute, Radboud University Nijmegen (NL)

82 **Costs of Switch between Perceptual Discrimination Tasks of Unequal Strength**
Sami Mecheri[1], Wendie Gouasmi[1], Régis Lobjois[2]
[1]French Armed Forces Biomedical Research Institute (FR), [2]Université Gustave Eiffel (FR)

84 **Internal Representation of Facial Emotions in Schizophrenia**
Anita Song[1], Chengyu Zhang[2], Nicola Binetti[3], Panayiota G Michalopoulou[3], Sukhi Shergill, Isabelle Mareschal
[1]Queen Mary University London (UK), [2]King's College London (UK), [3]International School for Advanced Studies (SISSA) (IT)

86 **Investigating the relationship between dyadic person similarity and face judgement similarity**
Rochelle Williams[1], Lúcia Garrido[1]
[1]City, University of London (UK)

88 **The flexibility of cue combination in response to new physical and social information**
Meike Scheller[1], Jie Sui[2], Marko Nardini[1]
[1]Durham University (UK), [2]University of Aberdeen (UK)

90 **Symmetry as a Cue to Animacy**
Colin Clifford[1], Lindsay Peterson[1], Kritika Sarna[1], Fun Kaoru Hui Sato[1], Kateryna Marchenko[1], Erin Goddard[1], Branka Spehar[1]
[1]UNSW Sydney (AU)

92 **The tolerance for changes in eye size on perception of face identity**
Megumi Kobayashi[1], Akari Matsukawa[1]
[1]Niigata University (JP)

94 **Prior Scene Information Facilitates Face Detection in Natural Settings**
Sule Tasliyurt Celebi[1], Benjamin de Haas[1], Melissa Vö[2], Katharina Dobs[1]
[1]Justus Liebig University Giessen (DE), [2]Goethe University Frankfurt (DE)

96 **Perception of angry facial expressions is enhanced by somatosensory cues for avoidance**
Yugo Kobayashi[1], Hideki Tamura[1], Shigeki Nakauchi[1], Tetsuo Minami[1]
[1]Toyohashi University of Technology (JP)

98 **Abstract shapes show affective traits**
Olga Daneyko[1], Svetlana Emelianova[2], Daniele Zavagno[3]
[1]Sheffield Hallam University (UK), [2]Lomonosov Moscow State University (RU), [3]University of Milano-Bicocca (IT)

100 **Realness of face images can be decoded from non-linear modulation of EEG responses**
Yonghao Chen[1], Tilman Stephani[1], Milena Teresa Bagdasarian[2], Anna Hilsmann[2], Peter Eisert[2], Arno Villringer[1], Sebastian Bosse[2], Michael Gaebler[1], Vadim V. Nikulin[1]
[1]Max Planck Institute for Human Cognitive and Brain Science (DE), [2]Fraunhofer HHI (DE)

102 **Reading acceleration training combined with bilateral parietal beta-tACS ameliorates reading and gaze control in dyslexia**
Giuseppe Di Dona[1], Denisa Adina Zamfira[1], Francesco De Benedetto[1], Chiara Turri[1], Camilla Venturini[1], Lisa Venniro[1], Daniela Perani[1], Luca Ronconi[1]
[1]Vita-Salute San Raffaele University; Division of Neuroscience, IRCCS San Raffaele Scientific Institute (IT)

104 **Frontoparietal Transcranial Random Noise Stimulation Reveals Hemispheric Asymmetry in Visuo-Spatial attention**
Michele Tosi[1], Giulia Ellena[2], Federica Contò[2], Grace Edwards[3], Lorella Battelli[4,2]
[1]University of Trento (IT), [2]Italian Institute of Technology (IT), [3]National Institute of Mental Health (Bethesda - MD) (US), [4]Harvard Medical School (US)

106 **Rapid visual motion priming effects partially explained by response artefacts rather than perceptual effects**
Kimberley Dundas[1], Joseph Brooks[2]
[1]Open Science Tools (UK), [2]Keele University (UK)

108 **Eye-guided video games improve reading in healthy older adults**
Cristina Costantini[1], Ramon Pedrini[1], Sara Polato[1], Claudio Lira[2], Alessio Facchin[3], Roberta Daini[1,4]
[1]University of Milano-Bicocca (IT), [2]Neotenia LTD (IT), [3]University of Magna Graecia (IT), [4]IRCCS Fondazione Don Carlo Gnocchi ONLUS (IT)

110 **Spatiotemporal processing in dyslexia**
Bader Almagren[1], Simon Rushton[1], David Whitaker[1], Matt Dunn[1]
[1]Cardiff University (UK)

112 **Looking to the past: differences in oculomotor activity between verbal and visuospatial maintenance**
Teodor Nikolov[1], Candice Morey[1]
[1]Cardiff University (UK)

114 **Bayesian adaptive estimation of high-dimensional psychometric functions using particle filtering**
Lars C. Reining[1], Rabea Turon[1], Philipp Hummel[1], Finn Radatz[1], Christine Lind[2], Angela Yu[1,3], Frank Jäkel[1], Thomas S. A. Wallis[1]
[1]Technical University of Darmstadt (DE), [2]Electrical & Computer Engineering, UC San Diego (US), [3]HDSI, UC San Diego (US)

116 **Visual perception of naturalistic actions in the theoretical framework of perceptual decision-making: An EEG study**
Şeyda Evsen[1], Burcu Aysen Urgen[1]
[1]Bilkent University (TR)

118 **Lightness of the 3D virtual objects under two illumination levels**
Predrag Nedimović[1], Sunčica Zdravković[1]
[1]Laboratory 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 Naumann[1], Jürgen Heller[1]
[1]University of Tübingen (DE)

122 **A network analysis of factors of visual hypersensitivity and symptoms of anxiety**
Alice Price[1], Petroc Sumner[1], Rebecca Taylor[1], Georgina Powell[1]
[1]Cardiff University (UK)

124 **Temporal Properties of Pupillary Synchronization During Human Communication**
Kristen Lott[1], Zahra Hosseini[1], Nicholas Logan[1], Nikolaus Troje[2]
[1]York University (CA), [2]York University, Centre for Vision Research (CA)

126 **Can changes in pupil diameter cause illusory visual motion?**
George Mather[1], Patrick Cavanagh[2]
[1]Universitty of Sussex (UK), [2]York University (CA)

128 **How do expectations in potential information gain influence saccade decision and performance?**
Thibault Desbordes[1], Nadia Alahyane[1], Alain Guillaume[1]
[1]Vision Action Cognition Lab (FR)

130 **Exploring the neural basis of individual gaze in complex scenes**
Diana Kollenda[1], Elaheh Akbarifathkouhi[1], Maximilian Broda[1], Benjamin de Haas[1]
[1]Justus Liebig University, Giessen (DE)

132 **People do not automatically avoid regions in which feedback about their movements is occluded**
A. Burak Kurt[1], Lorenzo Landolfi[1], Monica Gori[1], Eli Brenner[2]
[1]Istituto Italiano di Tecnologia (IT), [2]Vrije Universiteit Amsterdam (NL)

134 **Characterising the Neural Dynamics of Object-Based Attention in the Presence of Hemispheric Competition with M/EEG**
Yuena Zheng[1], Daniel Mitchell[2], John Duncan[2], Alexandra Woolgar[2]
[1]University of Cambridge (UK), [2]MRC Cognition and Brain Sciences Unit, University of Cambridge (UK)

136 **Visual Reference and its Impact on Consumer Assessment of Medication Dosage**
Lea Laasner Vogt[1], Daniele Catarci[1], Ester Reijnen[1]
[1]ZHAW Zurich University of Applied Sciences (CH)

138 **No automatic post constancy representations of symmetry**
Alexis Makin[1]
[1]University of Liverpool (UK)

140 **Prediction-dependent biases in orientation oscillate in synchrony with saccades at alpha frequencies**
Xinyu Xie[1], David Burr[2], Maria Concetta Morrone[3]
[1]East China Normal University (CN), [2]University of Florence (IT), [3]University of Pisa (IT)

142 **Cross-modal reliability defeats the central tendency effect**
Alessia Tonelli[1], Cameron K. Phan[1], David Alais[1]
[1]The University of Sydney (AU)

144 **Influences of Neural Oscillation Phase on Perception of the Tilt Illusion**
Jessica Williams[1], William Harrison[2], Henry Beale[1], Jason Mattingley[1], Anthony Harris[1]
[1]The University of Queensland (AU), [2]University of the Sunshine Coast (AU)

146 **The emergence and calibration of magnitude integration between duration and numerosity**
Irene Togoli[1], Michele Fornaciai[1], Samuel Binisti[1], Olivier Collignon[1]
[1]Université Catholique De Louvain (BE)

148 **Causal effects of rhythmic TMS on behaviour in visual short term and working memory tasks**
Katarzyna Jaworska[1], Máté Gyurkovics[1], Matias Palva[2], Satu Palva[2], Gregor Thut[1]
[1]University of Glasgow (UK), [2]University of Helsinki (FI)

Talk Session 6
Face Perception
16.30–18.00 (Room 1A)

16.30 **Super-Recognizers or Su-perceivers**
Jeff Nador[1], Meike Ramon[1], Kim Uittenhove[1]
[1]AFC Lab, University of Lausanne (CH)

16.45 **Yes, No, Maybe-so: An investigation of response option framing on face identification decisions**
Kristen Baker[1], Markus Bindemann[1]
[1]University of Kent (UK)

17.00 **The perceptual integrality of sex and age: understanding the functional organisation of face processing**
Paul Aitken[1], Paul Downing[1]
[1]Bangor University (UK)

17.15 **The neural basis of face pareidolia with human intracerebral recordings**
Begüm Cerrahoglu[1], Corentin Jacques[1], Jacques Jonas[2], Louis Maillard[2], Sophie Colnat-Coulbois[2], Diane Rekow[3], Arnaud Leleu[3], Bruno Rossion[1]
[1]Universite De Lorraine (FR), [2]Université de Lorraine, Service de Neurologie CHRU (FR), [3]Université Bourgogne Franche-Comté (FR)

17.30 **Evidence for an alternative account for the other-"race" effect, taking out "race"**
Juergen M. Kaufmann[1], Stefan R. Schweinberger[1]
[1]Friedrich Schiller University Jena (DE)

17.45 **Contextual Variability Does Not Improve Face Learning**
Cathy Mondloch[1], Truong Nguyen[1], Molly Nullmeyer[1], Kristen Baker[2]
[1]Brock University (CA), [2]University 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 Cavdan[1], Zhong Jian Chee[2], Rochelle Ackerley[3], Constanze Hesse[2], Knut Drewing[1]
[1]Justus Liebig University Giessen (DE), [2]University of Aberdeen (UK), [3]Aix-Marseille University (FR)

16.45 **Multisensory saliency in object surface exploration**
Anna Metzger[1], Vida Ahmadi Arab[1], Matteo Toscani[1]
[1]Bournemouth University (UK)

17.00 **Relative Contribution of Boundary Motion in Material Perception**
Amna Malik[1], Ying Yu[2], Huseyin Boyaci[3], Katja Doerschner[1]
[1]Justus-Liebig-Universität Gießen (DE), [2] EYSZ Inc. (US), [3]Bilkent University (TR)

17.15 **Sound symbolic characteristics of natural materials**
İrem Tuncel[1], Hamza Nalbantoğlu[1], Dicle Dövencioğlu[2]
[1]Department of Psychology, Middle East Technical University (TR), [2]METU (TR)

17.30 **Precision Grip and Unconstrained Visually-Guided Grasping of Multi-Material Objects**
Fabrizio Lepori[1], Frieder Hartmann[2], Kira Dehn[2], Manuela Chessa[3], Roland Fleming[2], Guido Maiello[4]
[1]University Of Southampton (UK), [2]Department of Experimental Psychology, Justus Liebig University Giessen (DE), [3]Department of Informatics, Bioengineering, Robotics, and Systems Engineering, University of Genoa (IT), [4]School of Psychology, University of Southampton (UK)

17.45 **The Contribution of Auditory and Haptic Target Information in Guiding Reaching Movements**
Ivan Camponogara[1]
[1]Zayed University (AE)

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 Peveri[1], Andrea Canessa[1], Silvio Paolo Sabatini[1]
[1]University of Genoa (IT)

16.45 **The importance of measuring coarse stereopsis in the assessment of residual binocular function**
Deborah Giaschi[1], Meriwether Morris[1], Kimberly Meier[2], Laurie Wilcox[3]
[1]University of British Columbia (CA), [2]University of Houston (US), [3]York University (CA)

17.00 **Depth perception from disparity, motion parallax and their combination in patients with central field loss**
Jade Guenot[1], Preeti Verghese[1]
[1]Smith-Kettlewell Eye Research Institute (US)

17.15 **Dual-task costs suggest dependence between depth and 3D curvature processing**
Celine Aubuchon[1], Sebastian Musslick[1,2], Fulvio Domini[1]
[1]Brown University (US), [2]Osnabrueck University (DE)

17.30 **All sizes of the Moon - perceived size and depth cues distribution**
Oliver Tošković[1]
[1]Laboratory 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 Acquafredda[1], Irene Di Marco[2], Guido Marco Cicchini[3], Laura Biagi[4], Michela Tosetti[4], Alessandro Sale[3], Paola Binda[1], Maria Concetta Morrone[1]
[1]University of Pisa (IT), [2]University of Florence (IT), [3] Institute of Neuroscience, National Research Council, Pisa (IT), [4]IRCCS Stella Maris Foundation, Pisa (IT)

Wednesday 28th August

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

1 **Retention of non-configural face information**
Ronja Mueller[1], Claus-Christian Carbon[2], Sandra Utz[2], Tilo Strobach[1]
[1]Medical School Hamburg (DE), [2]University of Bamberg (DE)

3 **Impact of PTSD on attentional capture, guidance, and target verification during visual search**
Samantha Tyler[1], Doug J. K. Barrett[1]
[1]University of Leicester (UK)

5 **Testing the interaction between fine and coarse scales with moving plaids**
Omar Bachtoula[1], Ignacio Serrano-Pedraza[1]
[1]Universidad Complutense de Madrid (ES)

7 **Age-Related Visual Search: Distractor Impact on Reaction Times and Accuracy**
Mohammad Ahsan Khodami[1], Luca Battaglini[1]
[1]University of Pauda (IT)

9 **Investigating semantic properties of objects in scenes using fine-grained crowd-sourced and computational methods**
Marek Pedziwiatr[1], Sophie Heer[2], Peter Bex[3], Antoine Coutrot[4], Melissa Le-Hoa Võ[5], Isabelle Mareschal[2]
[1]Jagiellonian University in Krakow (PL), [2]Queen Mary University of London (UK), [3]Northeastern University (US), [4]LIRIS, CNRS, University of Lyon (FR), [5]Goethe University Frankfurt (DE)

11 **Objects, Faces and Words Processing in Dyslexic and Typical Readers: Steady-State Visual Evoked Potentials Study**
Irina Ovchinnikova[1], Hélène Devillez[2], Heida Maria Sigurdardottir[1]
[1]University of Iceland (IS), [2]CEA Grenoble (FR)

13 **Are our representations of familiar faces weighted towards our most recent encounters?**
Sarah Laurence[1], Camilla Düring, Mike Burton[2], Mila Mileva[3]
[1]The Open University (UK), [2]University of York (UK), [3]University of Plymouth (UK)

15 **Visual search and stimulus similarity: An empirical study with real images and convolutional neural networks**
Marco Petilli[1], Francesca Rodio[2], Fritz Günther[3], Marco Marelli[1]
[1]University of Milano-Bicocca (IT), [2]Institute for Advanced Studies, IUSS (IT), [3]Humboldt University at Berlin (DE)

17 **Reducing the Perceptibility of Phase Shifts in Sequences of Visual Stimuli**
Alexander Blöck[1], Tina Truong[1], Volker Franz[1]
[1]University of Tübingen (DE)

19 **Trial sequences are not effective cues for contextual saccadic adaptation**
Laurent Madelain[1], Maxime Martel[1]
[1]Scalab - University of Lille, CNRS (FR)

21 **Investigating the warping of spatial experience across the blind spot to contrast accounts of consciousness**
Clement Abbatecola[1], Bernard Marius 't Hart[2], Belén M Montabes de la Cruz[1], Lucy S. Petro[1], Cyriel M A Pennartz[3], Giulio Tononi[4], Karl J. Friston[5], Umberto Olcese[3], Srimant P. Tripathy[6], Patrick Cavanagh[2], Lars Muckli[1]
[1]University of Glasgow (UK), [2] York University (CA), [3]University of Amsterdam (NL), [4]University of Wisconsin (US), [5]University College London (UK), [6]University of Bradford (UK)

23 **A multiscale model of alpha traveling waves in the visual system**
Jakob Schwenk[1], Andrea Alamia[1]
[1]Cerco Toulouse (FR)

25 **Visual Perceptual Learning of a Crowding Task: Effects of ageing**
Mark Greenlee[1], Elena von Perponcher[1], Tina Plank[1]
[1]Universität Regensburg (DE)

27 **Reduced responsibility for task performance: social judgments when drawing in automated environments**
Sayako Ueda[1,2]
[1]Riken (JP), [2]Japan Women's University (JP)

29 **Postural stability and optic flow sensitivity following sight restoration from congenital bilateral cataracts**
Irene Senna[1], Priscilla Balestrucci[2], Sophia Piller[3], Dennis Wiebusch[3], Marc O. Ernst[3]
[1]Liverpool Hope University (UK), [2]Santa Lucia Foundation IRCCS (IT), [3]Ulm University (DE)

31 **Modality switching (and the absence thereof) modulates the redundant signal effect**
Kalvin Roberts[1], Ines Jentzsch[1], Thomas U Otto[1]
[1]University of St Andrews (UK)

33 **Retinocortical function in CRB1-Associated Inherited Retinal Dystrophies**
Kim Eliane Staeubli[1], Marc Pabst[1], Roni Maimon-Mor[1], Mariya Moosajee[1], H. Steven Scholte[2], Tessa Dekker[1]
[1]University College London (UK), [2]University of Amsterdam (NL)

35 **Manipulating the statistics of sensory information in multisensory category learning**
Rebecca Hirst[1], Alan O'Dowd[2], Fiona N Newell[1,3]
[1]Trinity College Institute of Neuroscience (IE), [2]Trinity College Dublin (IE), [3]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[1], Chiara Turri[2,3], Giuseppe Di Dona[3,4], Denisa Adina Zamfira[3,4], Lisa Venniro[4], Daniela Perani[3,4], Luca Ronconi[3,4]
[1]Irccs San Raffaele Scientific Institute (IT), [2]Maastricht University (NL), [3]Division of Neuroscience, IRCCS San Raffaele Scientific Institute (IT), [4]School of Psychology, Vita-Salute San Raffaele University (IT)

39 **Gaze when avoiding obstacles**
Dimitris Voudouris[1], Eli Brenner[2]
[1]Justus Liebig University Giessen (DE), [2]Vrije Universiteit Amsterdam (NL)

41 **The influence of exocentric information on egocentric distance estimates for perception and action**
Chaeeun Lim[1], Dhanraj Vishwanath[2], Fulvio Domini[1]
[1]Brown University (US), [2]University of St Andrews (UK)

43 **Temporal sensitivity in visual cortex under scotopic conditions**
Deena Elul[1], Ayelet McKyton[2,3], Netta Levin[2,3]
[1]Hebrew University of Jerusalem (IL), [2]fMRI unit, Department of Neurology, Hadassah Medical Center (IL), [3] Faculty of Medicine, Hebrew University of Jerusalem (IL)

45 **From mice to humans: A cross-species comparison of engagement fluctuations during visual decision-making**
Camilla Ucheoma Enwereuzor[1], Philippa Johnson[2], Sander Nieuwenhuis[2], Anne E. Urai[2]
[1]Leiden University (NL), [2]Cognitive Psychology, Leiden University (NL)

47 **Creating something from nothing: Symbolic and non-symbolic representations of numerical zero in the human brain**
Benjy Barnett[1], Stephen Fleming[1]
[1]UCL (UK)

49 **Measuring the typicality of visual images**
Filip Děchtěrenko[1], Jiri Pesek[2], Niko Busch[3], Jiri Lukavsky[4]
[1]Institute of Psychology CAS (CZ), [2]Faculty of Arts, Charles University (CZ), [3]University of Muenster (DE), [4]Institute of Psychology, Czech Academy of Sciences (CZ)

51 **People are sensitive to their uniquely patterned retinal input**
Amit Rawal[1], Rosanne Rademaker[2]
[1]Ernst Strüngmann Institute (ESI) (DE), [2]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[1], Clare A.M. Sutherland[1], Linda Jeffery[2], Mauro Manassi[1]
[1]University of Aberdeen (UK), [2]Curtin University (AU)

55 **Human balancing in VR under the influence of optical flow**
Kai Streiling[1], Maximilian Stasica[1], Alsou Bellmann[1], André Seyfarth[1], Loes C. J. van Dam[1]
[1]Technical University of Darmstadt (DE)

57 **Semantic consistency in identifying human actions**
Filip Rybansky[1], Sadegh Rahmani[2], Andrew Gilbert[2], Frank Guerin[2], Quoc Vuong[1]
[1]Newcastle University (UK), [2]University of Surrey (UK)

59 **Expanding visual search models: New insights from confidence reports and hybrid search**
Juan Kamienkowski[1], Gaston Bujia[1], Gonzalo Ruarte[1], Fermin Travi[1], Guillermo Solovey[1], Matias J Ison[2]
[1]University of Buenos Aires (AR), [2]University of Nottingham (UK)

61 **Testing Stimulus Generalisation Theory of Impression Formation Within and Across Culture**
Leoni Shirin Masroujah[1], Stephanie Wilcke[1], Linda Jeffery[2], Brigitte Mostert[2], Clare Sutherland[1]
[1]University of Aberdeen (UK), [2]Curtin University (AU)

63 **Contributions of additive and multiplicative noise to lateral and in-depth speed uncertainty**
Joan Lopez-Moliner[1]
[1]Universitat de Barcelona (ES)

65 **Does object movement or sound affect inter-item perceptual similarity for object categorisation?**
Martina Seveso[1], Alan O'Dowd[1], Rebecca J. Hirst[1], Fiona N. Newell[1]
[1]Trinity College Dublin (IE)

67 **Understanding preferred distance in human-drone interaction**
Elisabeth Wögerbauer[1], Christoph von Castell[1], Heiko Hecht[1]
[1]Johannes Gutenberg University of Mainz (DE)

69 **Influence of manipulability of objects by hand on evaluation of aesthetic arrangement**
Makoto Ichikawa[1], Teruya Hatakeyama[1]
[1]Chiba University (JP)

71 **Asymmetries in facilitation and interference in holistic face processing**
Haiyang Jin[1], Luyan Ji[2], Olivia Cheung[3], Will Hayward[4]
[1]Zhejiang Sci-Tech University (CN), [2]Guangzhou University (CN), [3]New York University, Abu Dhabi (AE), [4]Lingnan University (HK)

73 **Contextual cueing relies on attentional guidance: Evidence from searching and responding fixations in natural scenes**
Josefine Albert[1], Werner X. Schneider[1], Christian H. Poth[1]
[1]Bielefeld University (DE)

75 **Does the feed-forward sweep influence the generation of top-down predictions?**
Morgan Kikkawa[1], Daniel Feuerriegel[1], Marta Garrido[1]
[1]University of Melbourne (AU)

77 **Spatial frequency information processing on the synchrony perception for audiovisual stimuli**
Yasuhiro Takeshima[1]
[1]Hosei University (JP)

79 **The role of stereopsis in face processing**
Camille Proszanski[1], Erez Freud[1], Laurie M. Wilcox[1]
[1]York University (CA)

81 **Do children benefit from multisensory over intrasensory information in their categorisation of familiar objects?**
Eimear McKenna[1], Fiona Newell[1,2]
[1]Trinity College Dublin (IE), [2] New York University Abu Dhabi (AE)

83 **Source estimation of visual spatial attention: a multifocal MEG study**
Matti Stenroos[1], Ilmari Kurki[2], Aapo Hyvärinen[2], Linda Henriksson[1]
[1]Aalto University (FI), [2]University of Helsinki (FI)

85 **Motion compression by surround motion**
Isamu Motoyoshi[1], Hironobu Sano[1], Ryohei Nakayama[1]
[1]The University of Tokyo (JP)

87 **Characterizing individual differences in selection history bias manifested in goal-directed reaching movements**
Dietmar Heinke[1], Fan Zhang[2], Mukesh Makwana[3], Joo-Hyun Song[3]
[1]University Of Birmingham (UK), [2]Xi'an Jiaotong-Liverpool University (CN), [3]Brown University (US)

89 **Is saccadic target selection driven by luminance or brightness?**
Giulia Agosti[1], Shuchen Guan[1], Yuan Zhang[1], Karl Gegenfurtner[1], Doris Braun[1]
[1]Justus-Liebig-Universität Gießen (DE)

91 **A novel size illusion: The inner tube effect**
Ian M. Thornton[1], Sunčica Zdravković[2], Dejan Todorović[2]
[1]University of Malta (MT), [2]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[1], Burcu Kucukoglu[2], Jaap de Ruyter van Steveninck[2], Sandra Bedrossian[4], Frans Cornelissen[3], Marcel van Gerven[2]
[1]Royal Dutch Visio (NL), [2]Donders Institute for Brain, Cognition, and Behaviour (NL), [3]University Medical Center Groningen (NL), [4]University of Groningen (NL)

95 **Scanning in three-dimensional space by visual attention: effects of spatial composition of the background**
Satoko Ohtsuka[1]
[1]Saitama Institute of Technology (JP)

97 **Spatiotemporal Models for Multisensory Integration in Mammals**
Cesare Parise[1]
[1]University of Liverpool (UK)

99 **Visual Attention in Judging TikTok Video Trustworthiness: Effects of Speaker Gender, Veracity, and Communication Modes**
Zihao Zhao[1], Shuyi Sun[1], Hong Xu[1]
[1]Nanyang Technological University (SG)

101 **Attention facilitates three-dimensional shape from shading**
Joshua Matthews[1], Debra Mills[1], Ayelet Sapir[1]
[1]Bangor University (UK)

103 **The development of visual crowding**
John Greenwood[1], Marilia Kyprianou[1], Tessa Dekker[1]
[1]University College London (UK)

105 **The Effectiveness of a Mailed Contrast Sensitivity Test in prioritising cataract patients for surgery**
Mehal Rathore[1], Eleonora Bianchi[2], Peter Reddingius[3], Dan Lindfield[2], David P Crabb[3], Pete R Jones[3]
[1]City University of London (UK), [2]Glaucoma Services, Royal Surrey County Hospital NHS Foundation Trust (UK), [3]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[1], Tessa van Leeuwen[2], Umut Güçlü[1], Yağmur Güçlütürk[1], Rob van Lier[1]
[1]Donders Institute for Brain, Cognition, and Behaviour (NL), [2]Tilburg School of Humanities and Digital Sciences (NL)

109 **Search asymmetries for dynamic faces**
Zeynep Karagül[1], Cansu Kazan[2], Bilge Sayim[3], Nihan Alp[1]
[1]Sabanci University (TR), [2]SISSA (IT), [3]University of Lille (FR)

111 **Hand-dependent influence of grasp planning on visual processing**
Yihui Zhang[1], Jie Gao[1], Zhiqing Deng[1], Biao Han[1], Juan Chen
[1]South China Normal University (CN)

113 **The Neural Underpinnings of Aphantasia: A case study of identical twins**
Emma Megla[1], Deepasri Prasad[2], Wilma A. Bainbridge[1]
[1]University of Chicago (US), [2]Dartmouth College (US)

115 **Natural scene processing based on texture information: psychophysics and EEG**
Taiki Orima[1], Fumiya Kurosawa[2], Isamu Motoyoshi[2]
[1]CiNet, NICT (JP), [2]The University of Tokyo (JP)

117 **Mapping idiosyncratic facial expression of emotion recognition: from eye movements to neural responses**
Fanny Poncet[1], Lisa Stacchi[1], Roberto Caldara[1]
[1]University of Fribourg (CH)

119 **The Role of Cross-Area and Within-Area Temporal Correlations in Visual Segmentation**
Yen-Ju Chen[1], Zitang Sun[1], Shin'ya Nishida[1]
[1]Graduate School of Informatics, Kyoto University (JP)

121 **Seeing speech: Probing the cerebral mechanisms of Cued Speech perception**
Annahita Sarré[1], Laurent Cohen[1]
[1]Paris Brain Institute (ICM) (FR)

123 **Detection of visual field defects due to acquired brain injury with continuous visual stimulus tracking**
Minke De Boer[1], Anne Vrijling[1], Remco Renken[1], Jan-Bernard Marsman[1], Joost Heutink[2], Frans Cornelissen[1], Nomdo Jansonius[1]
[1]University Medical Center Groningen (NL), [2]Royal Dutch Visio (NL)

125 **Can we transfer what we know about efficiency of the visual system to AI algorithms?**
Xavier Otazu[1], Joan Vila[2], Alejandro Parraga[1], Olivier Penacchio[2]
[1]Computer Vision Center (ES), [2]Universitat Autonoma de Barcelona (ES)

127 **The impact of changes in appearance and context on face learning**
Kevin Nguy[1], Christel Devue[2]
[1]PsyNCog Lab - University of Liege (BE), [2]Department of Psychology - University of Liege (BE)

129 **Orientation tuning of face processing in human V1**
Mrittika Dey[1], Jolien Schuurmans[1], Valerie Goffaux[1]
[1]UCLouvain (BE)

131 **Extraction of optimally-informative features in fast vision: an ERPs study of C1 component**
Serena Castellotti[1], Giacomo Mazzotta[2], Alessandro Benedetto[2], Maria Michela Del Viva[2]
[1]University of Pisa (IT), [2]Univesity of Florence (IT)

133 **Hypothalamic Syndrome Impairs the Recognition of Aversive Static Facial Expressions of Emotion**
Camille Saumure[1], Anne-Raphaëlle Richoz[1], Pauline Schaller[1], Marie Chardonnens[1], Virginie Descloux[2], Roberto Caldara[1]
[1]University of Fribourg (CH), [2]University of Geneva (CH)

135 **Selective Attention by Coherence Movement Unaffected by Auditory Divided Attention Strategy**
Marcelo Costa[1], Victoria Menegon[1], Leonardo Henriques[1]
[1]University of São Paulo (BR)

137 **Abrupt Learning: How Does the Brain Decide What and When to Learn?**
Busra Tugce Gurbuz[1,2], Amanda Pruss[1], Nishanth Anand[1,2], Suresh Krishna[1], Eilif Muller[3], Christopher Pack[1]
[1]McGill University (CA), [2]Mila - Quebec AI Institute (CA), [3]Universite de Montreal (CA)

139 **Beating the iconic Arcade Game Pong – How Aging Impacts Predictive Gaze and Interception Performance**
Leonard Gerharz[1], Anna Schroeger[1], Dimitris Voudouris[1]
[1]Justus-Liebig-University Gießen (DE)

141 **Synesthetic Color Distribution in Color Space: Comparative Analysis among Grapheme-Color Synesthetes in Taiwan and Japan**
Jun Saiki[1], Daisuke Hamada[2], Chien-Chun Yang[3], Huan-Wei Lin[3], Su-Ling Yeh[3]
[1]Kyoto University (JP), [2]Otemae University (JP), [3]National Taiwan University (TW)

143 **Combination of eye-tracking and performance data to extract situational awareness profiles**
Gaelle Nicolas[1], Yasmina Kebir[1,2,3], Samuel Ferreira Da Silva[1,2], Pierre Chevrier[1,2], Jérôme Dinet[1,3]
[1]Chaire Behaviour (FR), [2]ENIM (FR), [3]2LPN (FR)

145 **Representations of unfamiliar objects before and after movement**
Casey Becker[1], Astrid Zeman[1]
[1]University of Melbourne (AU)

147 **Visual field position and familiarity effects under interocular suppression**
Mengdie Li[1], Weina Zhu[2], Jan Drewes[1]
[1]Sichuan Normal University (CN), [2]Yunnan University (CN)

149 **How Exposure to Diverse Faces Shapes the Computational Mechanism of Face Perception**
Elaheh Akbarifathkouhi[1], Katharina Dobs[1]
[1]Justus Liebig University Giessen (DE)

151 **Capturing Aesthetic Experience by verbal expressions: Identifying core concept variables from natural language processing**
Marella Campagna[1], Claus-Christian Carbon[2], Alexander Pastukhov[3]
[1]Bamberg University (DE), [2]Bamberg Graduate School of Affective and Cognitive Sciences (BaGrACS), Bamberg, Bavaria (DE), [3]Research Group EPÆG (Ergonomics, Psychological Æsthetics, Gestalt), Bamberg University, Bavaria (DE)

153 **Computational mechanisms underlying contextual and structural biases in time perception**
Laetitia Grabot[1], Anne Giersch[2], Pascal Mamassian[1]
[1]CNRS/ENS-PSL (FR), [2]Strasbourg University (FR)

155 **Influence of Aging on Vection**
Kayoko Murata[1], Makoto Ichikawa[2]
[1]Kobe Gakuin University (JP), [2]Chiba University (JP)

157 **Target-irrelevant features can affect behaviour in a visual foraging paradigm**
Anna Hughes[1], Elliot Richardson[1], Katie Quinn[1], Alasdair Clarke[1]
[1]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[1], Leonard Gerharz
[1]Justus Liebig University Giessen (DE)

Coordination of bimanual movements when acting on separate objects is shaped by competition for gaze
Jolande Fooken[1], Tianyao Zhu[1], Jason P Gallivan[1], J Randall Flanagan[1]
[1]Queen's University (CA)

Exploring everyday actions: Gaze behaviour during stair climbing
Andrea Ghiani[1], Eli Brenner[1]
[1]Vrije Universiteit Amsterdam (NL)

On the role of eye and head movements for walk transitions in real world scenes
Christiane Wiebel-Herboth[1], Petros Georgiadis[2], Martina Hasenjaeger[1]
[1]Honda Research Institute Europe Gmbh (DE), [2]Justus-Liebig Universitaet Giessen (DE)

Gaze Strategies in High-speed Racing
Otto Lappi[1]
[1]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[1], Joaquin Gonzalez[2], Damian Care[2], Markus Bauer[1], Anthony Ries[3], Juan Kamienkowski[2]
[1]University of Nottingham (UK), [2]University of Buenos Aires (AR), [3]U.S. Army Research Laboratory (US)

10.45 **Assessing the role of inter-object relations in visual cortical responses to natural scenes**
Giacomo Aldegheri[1], Steven Scholte[2], Iris Groen[2]
[1]Justus Liebig University (DE), [2]University of Amsterdam (NL)

11.00 **Understanding the time course and spatial biases of natural scene segmentation**
Ruben Coen-Cagli[1], Jonathan Vacher[2], Dennis Cregin[1], Tringa Lecaj[1], Sophie Molholm[1], Pascal Mamassian[3]
[1]Albert Einstein College of Medicine (US), [2]Universite Cite Paris (FR), [3]ENS Paris (FR)

11.15 **Bedazzled by dazzle camouflage? A new experiment, and critical reappraisal of a 105-year-old data set**
Timothy Meese[1], Sam Strong[1]
[1]Aston University (UK)

11.30 **The role of executive functions in organized foraging**
Inga María Ólafsdóttir[1]
[1]Reykjavik University (IS)

11.45 **A new psychophysiological method to assess automatic visual processing of task-irrelevant global and local shapes**
Ann-Kathrin Beck[1], Thomas Lachmann[1], Motohiro Kimura[2]
[1]University of Kaiserslautern-Landau (DE), [2]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[1]
[1]Bangor University (UK)

Reproducing accurate colour in high dynamic range
Maliha Ashraf[1]
[1]University of Cambridge (UK)

Immersive reality: effects and uses of VR in perception
Sandra Malpica[1]
[1]Universidad de Zaragoza (ES)

The value of synthetic image statistics for understanding the structure and perception of natural scenes
Paul Hibbard[1]
[1]University of Stirling (UK)

Setting requirements to reproduce reality: A controllable AR/VR headset simulator for active observer psychophysics
Phillip Guan[1]
[1]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[1]
[1]Apple (US)

Contrast vision at and above threshold
Maliha Ashraf[1]
[1]University of Cambridge (UK)

A new spectra database of human skin colour
Kaida Xiao[1], Yan Lu[2], Michael Pointer[1], Sophie Wuerger[3]
[1]University of Leeds (UK), [2]University of Manchester (UK), [3]University of Liverpool (UK)

Colour in motion: global motion filters, grouping-by-colour and attentional selection
Jasna Martinovic[1]
[1]University of Edinburgh (UK)

Principled approaches towards a better understanding of multisensory perception
Georg Meyer[1]
[1]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[1], Giulio Contemori[1], Luca Battaglini[1], Micheal Herzog[2], Marco Bertamini[1]
[1]University of Padua (IT), [2]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[1], Doug Addleman[2], Kevin Lande[3], Denis Buehler[4], Cameron Pham[1], Silvia Rufus[1]
[1]Loyola University Chicago (US), [2]Gonzaga University (US), [3]York University (CA), [4]Ecole Normale Supérieure (FR)

14.00 **Individuation and Pooling of information over different temporal scales**
Yaffa Yeshurun[1], Ilanit Hochmitz[1], Amit Yashar[1], Ahmad Abu-Akel[1]
[1]University of Haifa (IL)

14.15 **Crowding considered as adaptive spatial integration**
David Burr[1], Guido Marco Cicchini[2]
[1]University of Florence (IT), [2]CNR, Pisa (IT)

14.30 **Revealing Developmental and Cross-Species Asymmetries in Visual Performance**
Marisa Carrasco[1], Lynne Kiorpes[2], Caroline Myers[3], Mariel Roberts[4], Ekin Tuncok[2]
[1]New York University (US), [2]NYU (US), [3]Johns Hopkins University (US), [4]Barnard College (US)

14.45 **Expectations modulate the allocation of attention to familiar but not unfamiliar objects**
Rama Chakravarthi[1], Josephine Reuther[2]
[1]University of Aberdeen (UK), [2]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[1], David H Foster[1], Boris Otkhmezuri[1], Paul Warren[1]
[1]University of Manchester (UK)

13.45 **Where is the door? Can people keep track of one environment while immersed in another?**
Meaghan McManus[1], Franziska Seifert[1], Immo Schütz[1], Katja Fiehler[1]
[1]Justus Liebig University Giessen (DE)

14.00 **Relative walking speeds of neighboring pedestrians capture visual attention and influence room evacuation behavior**
Kristen Macuga[1], Alexander Boone[2], Bertrand Lemasson[3]
[1]Oregon State University (US), [2]Pacific Science & Engineering Group, Inc. (US), [3]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[1], Kyara Nasser Oesterreich[1], Rachael Taylor[1], Mike Burton[2]
[1]University of Kent (UK), [2]University of York (UK)

14.30 **Best practices of mobile eye tracking in outside urban environments**
Debora Nolte[1], Jasmin L. Walter[1], Paula Vondrlik[1], Lane von Bassewitz[1], Louisa Maubach[1], Milad Rouygari[1], Jonas Scherer[2], Martin M. Müller[2], Peter König[1,3]
[1]Universität Osnabrück (DE), [2]University Bielefeld (DE), [3]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[1], Debora Nolte[1], Paula Vondrlik[1], Lane von Bassewitz[1], Louisa Maubach[1], Milad Rouygari[1], Jonas Scherer[2], Martin M. Müller[2], Peter König[1]
[1]University of Osnabrück (DE), [2]University Bielefeld (DE)

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[1], Marco Gandolfo[1], Marius Peelen[1]
[1]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[1], Thomas Otto[2], Ramakrishna Chakravarthi[1], Arash Sahraie[1]
[1]University of Aberdeen (UK), [2]University of St Andrews (UK)

6 **Similar area of direct looking and direct pointing**
Linda Linke[1], Gernot Horstmann[1]
[1]Bielefeld University (DE)

8 **Signal detection under spatial uncertainty**
Alasdair Clarke[1], Micha Elsner[2], Amelia Hunt[3]
[1]University of Essex (UK), [2]The Ohio State University (US), [3]University of Aberdeen (UK)

10 **Looking with or without seeing in an individual with macular degeneration impairing central vision**
Li Zhaoping[1,2]
[1]Max-planck-institute for Biological Cybernetics (DE), [2]University of Tuebingen (DE)

12 **Sense of agency at a gaze-contingent display with jittery temporal delay**
Junhui Kim[1], Takako Yoshida[1]
[1]Tokyo Institute of Technology (JP)

14 **The effects of serial dependence on the variability of perceptual estimates: A meta-analysis**
Ayberk Ozkirli[1], Andrey Chetverikov[2], David Pascucci[1]
[1]EPFL (CH), [2]University of Bergen (NO)

16 **The Role of Neural Oscillations and Aperiodic EEG Signals in Contrast Detection**
Henry Beale[1], Jason Mattingley[1], Anthony Harris[1]
[1]The University of Queensland (AU)

18 **Navigational Affordance is related to Occipital Place Area and MEG signals between 100 and 200ms**
Rebecca Lowndes[1], Richard Aveyard[1], Catriona Scrivener[2], Elisa Zamboni[3], Antony Morland[1], Edward Silson[2]
[1]University of York (UK), [2]University of Edinburgh (UK), [3]University of Nottingham (UK)

20 **Measuring the speed of action recognition**
Filip Durovic[1], Angelika Lingnau[2], Paul Downing[1]
[1]Bangor University (UK), [2]University of Regensburg (DE)

22 **Examination of the effect of aspect ratios on the letter-row tilt illusion in non-staircase stimuli**
Yukyu Araragi[1], Hiroyuki Ito[2]
[1]Shimane University (JP), [2]Kyushu University (JP)

24 **Effects of object-based predictions and prediction robustness on subjective visual perception**
Clara Carrez-Corral[1], Pauline Rossel[1], Louise Kauffmann[1], Carole Peyrin[1]
[1]LPNC - Université Grenoble Alpes (FR)

26 **The impact of sensory cues on multiple object tracking performance: behavioural and neural correlates**
Polly Atkins[1], Timothy Hodgson[1], Patrick Dickinson[1], Kieran Hicks[2], Julia Föcker[1]
[1]University of Lincoln (UK), [2]University of Staffordshire (UK)

28 **Electrocardiogram (ECG) interpretation improves following priming with normal ECGs: An eye-tracking study among medical students**
Jennifer Edwards[1], W Joseph MacInnes[1], Alistair Gallagher[1]
[1]Swansea University (UK)

30 **A Fast Parafoveal Preview Effect for Face Gestalt but not Identity**
Michele Deodato[1], Tran Nguyen[1], David Melcher[1]
[1]New York University Abu Dhabi (AE)

32 **Spontaneous and voluntary blinks interact differentially with perceptual alternation in multistable perception**
Ryoya Sato[1], Eiji Kimura[2]
[1]Graduate School of Science and Engineering, Chiba University (JP), [2]Department of Psychology, Graduate School of Humanities, Chiba University (JP)

34 **Proportional Rate Control: A Strategy for Both Patient and Impatient Drivers**
Didem Kadihasanoglu[1], Behic Bugra Biber[1], Rabia Barin Adsiz[1], Kayra Kaan Donmez[1], Xiaoye Michael Wang[2], Geoffrey P. Bingham[3]
[1]TOBB University of Economics and Technology (TR), [2]University of Toronto (CA), [3]Indiana University, Bloomington (US)

36 **Altered learning of stimulus distribution in individuals with autism**
Zainab Naaran Saleh[1], Amit Yashar[1]
[1]University of Haifa (IL)

38 **Use of Volumetric Shading Information in Human and Artificial Object Recognition**
Luke Baumel[1], Mikayla Cutler[1], Matthew Hyatt[1], Joseph Tocco[1], William Friebel[1], George K. Thiruvathukal[1], Nicholas Baker[1]
[1]Loyola University Chicago (US)

40 **Gaze Behavior in Older Adults: A Comparative Study of Mild Cognitive Impairment in Naturalistic Tasks**
Alexandra Wolf[1]
[1]Cognitive Behavioral Assistive Technology Team, RIKEN AIP (JP)

42 **Task demands, motor costs, and motivation interdependently determine haptic exploration duration**
Michaela Jeschke[1], Anna Metzger[2], Knut Drewing[1]
[1]Justus-Liebig University Giessen (DE), [2]Bournemouth University (UK)

44 **No Evidence for Reduced Susceptibility to the Ebbinghaus Illusion in Children Across Different Methods**
Radoslaw Wincza[1], Calum Hartley[1], Sally Linkenauger[1], Trevor Crawford[1]
[1]Lancaster University (UK)

46 **Proactive distractor suppression in early visual cortex**
David Richter[1], Dirk van Moorselaar[2], Jan Theeuwes[2]
[1]CIMCYC, University of Granada (ES), [2]Vrije Universiteit Amsterdam (NL)

48 **Protracted development of gaze behaviour**
Marcel Linka[1], Harun Karimpur[1], Benjamin de Haas
[1]Justus-Liebig-Universät Gießen (DE)

50 **Bifocal Alpha-band tACS Modulates Temporal Sampling in Visual Perception**
Alessia Santoni[1], Giuseppe Di Dona[1], Riccardo Gironi[1], Luca Battaglini[2], Luca Ronconi[1]
[1]Vita-Salute San Raffaele University (IT), [2]University of Padua (IT)

52 **Categorization demands modulate neural representations**
Marlene Poncet[1], Paraskevi Batziou[2], Ramakrishna Chakravarthi[2]
[1]University of Essex (UK), [2]University of Aberdeen (UK)

54 **Predictive Control in Interception Tasks: Understanding the Angle-of-Approach and Curveball Effects**
Borja Aguado Ramirez[1,3], Juliane Bechert[3], Serkan Besim[3], Lucas Dysli[3], Maximilian Goschy[3], Lena Schäfer[3], Loes van Dam[2,3,4]
[1]Universitat De Vic - Universitat Central De Catalunya (ES), [2]Department of Psychology, University of Essex, Colchester (UK), [3]Technical University of Darmstadt (TU Darmstadt), Department of Human Sciences, Institute for Psychology / Centre for Cognitive Science (DE), [4]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[1]
[1]Tohoku Gakuin University (JP)

58 **Enhanced illusory color signals in individuals with reduced chromatic sensitivity**
Paolo Antonino Grasso[1], Federico Tommasi[1], Rebecca Franconi[1], Linda Favillini[1], Elisabetta Baldanzi[1], Massimo Gurioli[1], Alessandro Farini[1]
[1]University Of Florence (IT)

60 **Effects of temporal delay on task performance and sense of agency in continuous tracking task**
Yasunaga Monno[1], Junhui Kim[1], Takako Yoshida[1]
[1]Tokyo Institute of Technology (JP)

62 **Temporal adaptation and savings to constant and varying visual feedback delays in a driving simulator**
Sam Beech[1], Iain Gilchrist[1], Danae Stanton Fraser[1]
[1]The University of Bristol (UK)

64 **EEG responses to the numerosity of objects in partially occluded and uncovered scenes**
Cemre Baykan[1], Alexander, C. Schütz[1]
[1]Philipps-Universität Marburg (DE)

66 **From fixation to action: the interplay of task demands and object properties in multi-object selection**
Parishad Bromandnia[1], Jan Tünnermann[1], Anna Schubö[1]
[1]Philipps-Universität Marburg (DE)

68 **Supervised and unsupervised use of eye movement training in rehabilitation of hemianopia**
Valentina Varalta[2], Samuel Johnson[1], Nicola Smania[2], Arash Sahraie[1]
[1]University of Aberdeen (UK), [2]University of Verona (IT)

70 **Optimal visual gain for walking through virtual environments depends on the field of view**
Patricia R. Mueller[1], Wolfgang Einhäuser[1]
[1]Chemnitz University of Technology (DE)

72 **Simultaneous regularity contrast and luminance polarity**
Martin Sellier Silva[1], Frederick Kingdom[1]
[1]McGill University (CA)

74 **Investigating numerical signatures with hierarchical Navon stimuli**
Valter Prpic[1], Arianna Felisatti[2], David Aagten-Murphy[3], Luisa Lugli[1], Martin H. Fischer[4]
[1]University of Bologna (IT), [2]University of Padova (IT), [3]University of Cambridge (UK), [4]University of Potsdam (DE)

76 **Does the Radial Bias influence fast saccades towards Faces**
Marius Grandjean[1], Louise Kauffmann[2], Clément Letesson[1], Ece Kurnaz[1], Alexia Roux-Sibilon, Valérie Goffaux
[1]UCLouvain (BE), [2]Univ. Grenoble Alpes (FR)

78 **Unraveling the Monochrome Dunhuang Murals: Visual Imagery for Deeper Understanding**
Junlin Jiang[1], Rongrong Chen[2]
[1]Beijing Normal University-Hong Kong Baptist University United International College (UIC) (CN), [2]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[1], Giulia Spinelli[2], Carlotta Lega[3], Emanuela Bricolo[1], Luca Ronconi[4]
[1]University of Milano-Bicocca (IT), [2]Department of Psychology, University of Milano-Bicocca (IT), [3]University of Pavia (IT), [4]Vita-Salute San Raffaele University (IT)

82 **Mixed Percepts During Binocular Rivalry Reflect Increased Cortical Inhibition According to Converging Physiological Evidence**
Janine Mendola[1], Eric Mokri[1], Abigail Wolfensohn[1], Jason Da Silva Castanheira[1]
[1]McGill University (CA)

84 **Effect of element-lifetime and stimulus-duration on local and global motion processing: An equivalent noise study**
Balaje Vivekanandan[1], Steven C. Dakin[1]
[1]The University of Auckland (NZ)

86 **Major discrepancies in human and automated emotion classification (AFFDEX) for naturalistic facial expressions**
Amy Dawel[1], Paige Mewton[1], Tayla Williams[1], Eva Krumhuber[2]
[1]Australian National University (AU), [2]University College London (UK)

88 **Overwriting Serial-Dependence: Learning Novel Cues to Update Internal Prediction Models of Object Weight**
Olaf Kristiansen[1], Meike Scheller[1], Naomi Lau[1], Sarah Utting[1], Marko Nardini[1]
[1]Durham University (UK)

90 **Visual perspective taking towards humans and social robots in a face-to-face interaction**
Joel Currie[1], Katrina McDonough[2], Agnieszka Wykowska[3], Maria Elena Giannaccini[1], Patric Bach[1]
[1]University of Aberdeen (UK), [2]University of East Anglia (UK), [3] Istituto Italiano di Tecnologia (IT)

92 **Motion Dazzle and the Motion-Induced Position Shift on cursor representation: behavioral effects in pointing movements**
Celine Honekamp[1], Loes C.J. van Dam[1]
[1]Technical University of Darmstadt (DE)

94 **Multimodal Person Evaluation: First Impressions from Faces, Voices and Names**
Mila Mileva[1]
[1]University of Plymouth (UK)

96 **Pupillometry as a no-report measure of perturbation detection in grasping**
Carl Müller[1], Karl Kopiske[1], Luise Pfalz[1]
[1]Chemnitz University of Technology (DE)

98 **Decoding associative learning in human**
Samy Chikhi[1], Qing Yang[1], Thérèse Collins[1]
[1]Integrative Neuroscience and Cognition Center (FR)

100 **Testing the color name of #TheDress in DNNs with various levels of blue bias**
Ichiro Kuriki[1], Hikari Saito[1], Rui Okubo[1], Hiroaki Kiyokawa[1], Takashi Shinozaki[1]
[1]Saitama University (JP)

102 **Impacts of the peripheral optical flow generated by body sway during quiet standing**
Kentaro Horiuchi[1], Kuniyasu Imanaka[1], Satomi Ishihara[1]
[1]Tokyo Metropolitan University (JP)

104 **Comparing confidence biases in decision about perception and general knowledge**
Matteo Lisi[1]
[1]Royal Holloway University of London (UK)

106 **Attention please! Or how to model human face saliency using convolutional neural networks**
Quentin Senant[1], Aurore Philippe[2], Léa Entzmann[3], Nathalie Guyader[2], Martial Mermillod[2]
[1]CNRS UMR5105 (FR), [2]Université Grenoble Alpes (FR), [3]University of Iceland (IS)

108 **How head movements affect Functional Viewing Fields during visual search**
Jacob Elliott Hadnett-Hunter[1], Alex Göttker[1]
[1]Justus Liebig Universität Giessen (DE)

110 **Meta-analysis of face and visual context interactions in emotion perception**
Ben Steward[1], Paige Mewton[1], Romina Palermo[2], Eryn Newman[1], Amy Dawel[1]
[1]Australian National University (AU), [2]The University of Western Australia (AU)

112 **Oblique Effect and Search Asymmetry in Autistic and Non-autistic Individuals**
Mohammed Salman Sarkar[1], Bat-Sheva Hadad[1], Amit Yashar[1]
[1]University of Haifa (IL)

114 **Visual and auditory discomfort: common explanations from natural texture statistics**
Narumi Ogawa[1], Isamu Motoyoshi[2]
[1]Chuo University (JP), [2]The University of Tokyo (JP)

116 **Coregistration of EEG and Eye tracking in Hybrid Search Using Deconvolution Methods**
Damian Care[1], Joaquín González[1], Anthony Ries[2], Matias Ison[3], Juan Kamienkowski[1]
[1]University of Buenos Aires (AR), [2]ARL (US), [3]University of Nottingham (UK)

118 **Feedback from medial parietal and ventral visual cortex to early visual cortex during mental imagery**
Catriona Scrivener[1], Jessica Teed[1], Edward Silson[1]
[1]University of Edinburgh (UK)

120 **The consistency of peripheral appearance**
Bilge Sayim[1], Ângela G. Tomaz[2], Natalia Melnik[3]
[1]CNRS, University of Lille (FR), [2]UC Berkeley (US), [3]Otto-von-Guericke-Universität Magdeburg (DE)

122 **Orientation dependence of geometric optical illusions: 'up' is in the eye of the beholder**
Christoph von Castell[1], Heiko Hecht[1]
[1]Johannes Gutenberg-Universität Mainz (DE)

124 **Dopaminergic Control of Visual Change Prediction in Parkinson's Disease**
Oliver Leopold Steiner[1], Nicolas Roth, Sarah Melchert[2,3], Sven-Florian Jaeger[2,3], Fabian Klostermann[2,3], Martin Rolfs[1]
[1]Humboldt Universität zu Berlin (DE), [2]Department of Neurology, Motor and Cognition Group, Charité – Universitätsmedizin Berlin (DE), [3]Freie Universität Berlin and Hamburg (DE)

126 **Effective connectivity of the cortical face-network through concurrent intracerebral electrical stimulation and frequency-tagged visual presentation**
Luna Angelini[1], Corentin Jacques[1,2,3], Marie-Alphée Laurent[1,2,3], Louis Maillard[1,2,3,4], Sophie Colnat-Coulbois[1,2,3,4], Jacques Jonas[1,2,3,4], Bruno Rossion[1,2,3,4]
[1]Université de Lorraine (FR), [2]IMoPA (FR), [3]CNRS (FR), [4]CHRU-Nancy, Service de Neurologie (FR)

128 **Neural correlates of contour erasure as revealed by MEG**
Yih-Shiuan Lin[1], Mark W. Greenlee[1], Chien-Chung Chen[1]
[1]University of Regensburg, Institute of Psychology (DE)

130 **Cross-modal serial dependence biases and the modulatory effect of task**
Michele Fornaciai[1], Irene Togoli[1], Samuel Binisti[1], Olivier Collignon[1]
[1]Université Catholique De Louvain (UCLouvain) (BE)

132 **Psychophysical Measurement of Automatic Attention at Different Visual Eccentricities**
Marcelo Costa[1], Leonardo Henriques[1], Roberta Zagui[1]
[1]University of São Paulo (BR)

134 **Parafoveal preview effects during natural and accelerated reading**
Denisa Adina Zamfira[1], Michele Deodato[2], Giuseppe Di Dona[1], Luca Ronconi[1], David Melcher[2]
[1]Vita-salute San Raffaele University & San Raffaele Scientific Institute (IT), [2]New York University Abu Dhabi (AE)

136 **The influence of eye movements on perceived tone frequency: exploring pitch-space associations through psychophysics**
Adrien Paire[1], Idil Su Koksou[1], Ketsia Matondo[1], Dorine Vergilino-Perez[1], Céline Paeye[1]
[1]Laboratoire Vision Action Cognition - U. Paris Cité (FR)

138 **Linearisation of a monitor for web-based experiments**
Jonathan Peirce[1], Kimberley Dundas[2], Rebecca Hirst[2], Nikita Agafonov[2], Alain Pitiot[2]
[1]University of Nottingham (UK), [2]Open Science Tools Ltd (UK)

140 **Effects of aversive shock on perceptual learning in a virtual reality environment**
John Cass[1], Wing Hong Fu[1], Larissa Cahill[2], Yanping Li[1], Gabrielle Weidemann[1]
[1]Western Sydney University (AU), [2]DST Group (AU)

142 **Spatiotemporal characteristics of the stereoscopic anisotropy**
Ichasus Llamas-Cornejo[1], Ignacio Serrano-Pedraza[1]
[1]Universidad Complutense De Madrid (ES)

144 **The Impact of Scene Consistency and Orientation on Unawareness Visual Processing**
Mingjie Gao[1], Weina Zhu[1]
[1]Yunnan University (CN)

146 **A dynamic link between respiration and arousal**
Daniel Kluger[1], Joachim Gross[1], Christian Keitel[2]
[1]University of Munster (DE), [2]University of Dundee (UK)

148 **Spatial Layout and Composition: Related but Distinct Factors for the Aesthetic Appreciation of Natural Images**
Lisa Koßmann[1], Ann-Sophie Hellemans[2], Christophe Bossens[2], Johan Wagemans[2]
[1]Ku Leuven (BE), [2]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[1], Daniela Ruseva[1], Constanze Hesse[1], Martin Giesel[1]
[1]University of Aberdeen (UK)

152 **The furrow illusion quartet (FIQ): A new display to explore the role of negative afterimages**
Anna Riga[1], Ian M. Thornton[1]
[1]Department of Cognitive Science, University of Malta (MT)

154 **Active vision is timed to stabilise cortical representations for fixation-based memory encoding**
Philip Sulewski[1], Carmen Amme[2], Martin N Hebart[3], Peter König[2], Tim C Kietzmann[2]
[1]University of Osnabrück (DE), [2]Institute of Cognitive Science, University of Osnabrück, Osnabrück (DE), [3]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[1], Daniel T. Smith[1]
[1]Durham University (UK)

Rank Prize Lecture
16.30–18.00 (Room 1)

Hide and Seek: Bringing Vision Science to Animal Patterning
Julie Harris[1]
[1]University of St Andrews (UK)

Thursday 29th August

Poster Session 7 [odd numbers]
09.00–10.30 (Hall B)

1 **Eye movement perimetry in the pediatric population**
Anna Bøthun[1]
[1]Rigshospitalet (DK)

3 **Frontal Eye Field's Role in Visuomotor Learning: A Functional Connectivity Study**
Fahad AL Harshan[1], Georg Meyer[1], Fiona Rowe[1], Abdulrahman Aloufi[2]
[1]University of Liverpool (UK), [2]University of Qassim (SA)

5 **Percept durations of light flashes induced by microstimulation in visual cortex of blind human subjects**
Richard Van Wezel[1], Youp van Oosterhout[1], Leili Soo[2], Fabrizio Grani[2], Marc van Wanrooij[1], Eduardo Fernandez[2]
[1]Donders Institute (NL), [2]Universidad Miguel Hernandez (ES)

7 **Spatial biases of overt attention and covert attention diverge during the free-viewing of videos**
Yuqing Cai, Antonia F. Ten Brink[1], Stefan Van der Stigchel[1], Marnix Naber[1], Christoph Strauch[1]
[1]Utrecht University (NL)

9 **The link between space and time along the human cortical hierarchy**
Gianfranco Fortunato[1], Valeria Centanino[2], Domenica Bueti[2]
[1]SISSA (IT), [2]International School for Advanced Studies (SISSA) (IT)

11 **Visually guided grasping in tool use: movement planning takes into account changes in tool orientation**
Molly Hewitt[1], Ken Valyear[1], Simon Watt[1]
[1]Bangor University (UK)

13 **Prolonged fixation durations in color deficient observers**
Doris Braun[1], Karl Gegenfurtner[1]
[1]Giessen University (DE)

15 **Conscious Awareness Enhances Attentional Inhibition and Accelerates Attentional Sampling**
Fang Yang[1], Peijun Yuan[1], Shen Li[2], Ke Zhou[3], Sheng He[2,4], Yi Jiang[2]
[1]University of Chinese Academy of Sciences (CN), [2]State Key Laboratory of Brain and Cognitive Science, CAS Center for Excellence in Brain Science and Intelligence Technology (CN), [3]Faculty of Psychology, Beijing Normal University (CN), [4]Institute of Biophysics, Chinese Academy of Sciences (CN)

17 **The illusion of absence: Perceiving occluded space as empty**
Pierre Pascal Forster[1], Marcin Czub[2], Simon Jan Hazenberg[1], Vebjørn Ekroll[3], Rob van Lier[1]
[1]Donders Institute for Brain, Cognition, and Behaviour (NL), [2]University of Wrocław (PL), [3]University of Bergen (NO)

19 **Implicit learning of layout sequences in 3D**
Satoshi Shioiri[1], Qian Cheng[1], Chia Huei Tseng[1], Yasuhiro Hatori[1]
[1]Tohoku University (JP)

21 **Unveiling Biases in Automated Facial Action Unit Detection Systems**
Hilal Nizamoglu Caliskan[1], Katharina Dobs[1]
[1]Justus Liebig University in Giessen (DE)

23 **Memory matters: Unraveling serial dependence in visual perception**
Ekaterina Andriushchenko[1], Andrey Chetverikov[2], Gianluca Campana[3]
[1]University of Padova (IT), [2]University of Bergen (NO), [3]University of Padua (IT)

25 **Temporal Continuity in Visual Perception: Serial Dependence in Time Perception and Relationship with Working Memory**
Jessica Bertolasi[1], Davide Esposito[1], Anna Vitale[1], David Charles Burr[1], Monica Gori
[1]Istituto Italiano di Tecnologia (IT)

27 **How realistic are AI-generated faces?**
Alexis Mcguire[1], Matyas Bohacek[2], Hany Farid[3], Paul Taylor[1], Sophie Nightingale[1]
[1]Lancaster University (UK), [2]Stanford University (US), [3]University of California, Berkeley (US)

29 **Investigating rhythmic visual perception with a display-wide resetting event: Evidence for lateralization of perceptual rhythms?**
Tobias Schoeberl[1], Stefan Treue[1]
[1]German Primate Center (DE)

31 **The Speed of Learning: Effect on Category Structure and Post-Acquisition Performance**
Johannes Schultz-Coulon[1], James W. Tanaka[2], Brett D. Roads[3]
[1]Maastricht University (NL), [2]University of Victoria (CA), [3]University College London (UK)

33 **The Effect of Distance on the Overestimation of Gaze Endpoint Eccentricity**
Gernot Horstmann[1], Linda Linke
[1]Bielefeld University (DE)

35 **Assessing cortical visual field loss across the visual field**
Hugo Chow-Wing-Bom[1], Matteo Lisi[2], Freya Lygo-Frett[1], Roni Maimon-Mor[1], Frederic Dick[1], Tessa Dekker[1]
[1]University College London (UCL) (UK), [2]Royal Holloway University of London (UK)

37 **Peripheral crowding is invariant under different luminances**
Frans Cornelissen[1], Dilce Tanriverdi[1], Nomdo Jansonius[1]
[1]University Medical Center Groningen (NL)

39 **The effect of non-visual cues on estimating travel distance using peripheral or central optic flow**
Ambika Bansal[1], Hongyi Guo[1], Robert S. Allison[1], Laurence R. Harris[1]
[1]Centre for Vision Research , York University (CA)

41 **Do stimulus history effects in color perception depend on distal or proximal stimulus properties?**
Maria Olkkonen[1], Toni Saarela[1]
[1]University of Helsinki (FI)

43 **Social perception from faces and bodies**
R. Thora Bjornsdottir[1], Paul Connor[2], Nicholas O. Rule[3]
[1]University of Stirling (UK), [2]Stevens Institute of Technology (US), [3]University of Toronto (CA)

45 **The effect of stress physiology on duration and contrast perception**
Anna Tonon Appiani[1], Paola Binda[2], Oliver Thomas Wolf[3], Domenica Bueti[1]
[1]International School for Advanced Studies (SISSA) (IT), [2]University of Pisa (UNIPI) (IT), [3]Ruhr University Bochum (RUB) (DE)

47 **Emerald isles versus emerald cities: The role of greenery in psychological judgements of environments**
Ute Leonards[1], Chaeyeon Lim[1], Jay Davies[1], Jasmina Stevanov[1]
[1]University of Bristol (UK)

49 **The Leuven Orthogonalized Art Dataset (LOAD): A Multidimensional Art Image Set for Aesthetic Appreciation Research**
Yi Lin[1], Hans Op de Beeck[1], Johan Wagemans[1]
[1]Ku Leuven (BE)

51 **Towards Visual Acuity Estimation from Eye Movements**
Michael Lellouch[1], Aviel Hadad[2], Erez Tsumi[2], Ohad Ben-Shahar[1]
[1]Ben-Gurion University (IL), [2]Ben-Gurion University and Soroka Medical Center (IL)

53 **Synthetic vision displays**
Heiko Hecht[1], Elisabeth M. Wögerbauer
[1]Universität Mainz (DE)

55 **Stimulus distributions influence applicability of different adaptive approaches for categorization experiments**
Rabea Turon[1], Thomas S. A. Wallis[1], Frank Jäkel[1]
[1]TU Darmstadt (DE)

57 **Handling visual distractors via negative filters: insights from serial dependence**
Christian Houborg[1], David Pascucci[2,3], Árni Kristjánsson[4]
[1]Giessen University (DE), [2]The Radiology Department, Lausanne University Hospital and University of Lausanne (CH), [3]The Sense Innovation and Research Center, Lausanne (CH), [4]Department of Psychology, School of health sciences, University of Iceland (IS)

59 **High levels of awareness for reflexive and deliberate eye movements**
Jan-Nikolas Klanke[1], Sven Ohl[1], Martin Rolfs[1]
[1]Humboldt-Universität zu Berlin (DE)

61 **Enriching Strabismus Evaluation through Immersive Virtual Reality and Comprehensive Cover Test Protocols**
Federico Ferracini[1], Francesca Peveri[1], Agostino Gibaldi, Andrea Canessa[1], Silvio Sabatini[1]
[1]University of Genoa (IT)

63 **How watching yourself interacts with affective priming**
Azadeh Mozhdehfarahbakhsh[1], Jürgen Kornmeier[3], Marc Wittmann[3], Jannis König[3], Amelia Lacassagne[3], Sophia Saad[3], Marvin Hottenbacher[3], Clara Koinegg[3], Ellen Joos[3], Mareike Wilson[2]
[1]Faculty for Biology, University of Freiburg (DE), [2]Department of Psychiatry and Psychotherapy, University of Freiburg (DE), [3]Institute for Frontier Areas of Psychology and Mental Health, Freiburg (DE)

65 **Neurophysiological correlates of prior exploitation in representational momentum**
Sara Stottmeier[1], Giuseppe Di Dona[1], Alessia Santoni[1], Klara Hemmerich[1], Luca Ronconi[1]
[1]Vita-salute San Raffaele University (IT)

67 **Balancing exploration and stabilization: age effects in gaze control during locomotion in a virtual environment**
Sophie Meissner[1], Jochen Miksch[2], Sascha Feder[2], Sabine Grimm[2], Wolfgang Einhäuser[2], Jutta Billino[1]
[1]Justus Liebig University Giessen (DE), [2]Chemnitz University of Technology (DE)

69 **Investigating memory and learning effects on contextual feedback signals in layers of early visual cortex**
Zirui Zhang[1], Clement Abbatecola[2], Angus Paton[2], Yulia Lazarova[2], Lucy Petro[2], Lars Muckli[2]
[1]University of Glasgow (UK), [2]University of Glasgow, School of Psychology and Neuroscience (UK)

71 **Size constancy counteracts subjective image quality drop driven by vergence-accommodation conflict in stereoscopic displays**
Daniel Spiegel[1], Ian Erkelens[1]
[1]Meta Reality Labs (US)

73 **Visual acuity and stereopsis screening application: pilot validation on an elderly age group**
Dorottya Wiegand[1], Eszter Mikó-Baráth[2], Gábor Jandó[2], Adrienne Csutak[3], Balázs Patczai[4], Vanda A Nemes[2]
[1]University of Pécs Medical School (HU), [2]University of Pécs, Medical School, Institute of Physiology (HU), [3]University of Pécs, Department of Traumatology and Hand Surgery (HU), [4]University of Pécs, Department of Ophthalmology (HU)

75 **Hyperspectral Compression through Reflectance-Based Cone-Excitation Ratios**
Hamed Karimipour[1], Rio Coleman[1], Christoph Witzel[1]
[1]University of Southampton (UK)

77 **Representations of cue directionality and agent mental states in gaze following**
Florence Mayrand[1], Jelena Ristic[1]
[1]McGill University (CA)

79 **Sensitivity to oriented-content of the face is shaped by the nature of the horizontal cues**
Hélène Dumont[1], Alexia Roux-Sibilon[1], Vincent Bremhorst[2], Christianne Jacobs[1], Valérie Goffaux[1,3]
[1]IPSY (UCLouvain) (BE), [2]SMCS (BE), [3]IONS (BE)

81 **Automatic processing of variance in multiple facial expressions: Evidence from visual mismatch negativity**
Zilong Chen[1], Luyan Ji[1]
[1]Guangzhou University (CN)

83 **The consequences of preparing for informative or distracting stimuli**
Roy Shoval[1], Tal Makovski[1]
[1]Open University of Israel (IL)

85 **Is saccadic suppression related to metacontrast masking?**
Pragya Pandey[1], Mark Wexler[1]
[1]CNRS (FR)

87 **Structural constraints in sparse predictive-coding networks reconcile Bayesian and 'anti-Bayesian' effects in human orientation perception**
Stefan Brugger[1], Christoph Teufel[1]
[1]Cardiff University (UK)

89 **Creating High-Fidelity Human Avatars for Behaviour and Cognition Research**
Rachael Taylor[1], Lisa Huerta[1], Mike Burton[2], Markus Bindemann[1]
[1]University of Kent (UK), [2]University of York (UK)

91 **Foraging through emotions: the role of emotional valence in target selection during visual foraging**
Jerome Tagu[1], Christelle Robert[1], Stephanie Mathey[1]
[1]University of Bordeaux (FR)

93 **Signalling of collision threats by predictive suppression of local optical flow from moving observers**
Matthias Keil[1]
[1]University of Barcelona (ES)

95 **Comparing Gaze-Mediated Orienting of Attention Between Schematic and Real Human Faces**
Mario Dalmaso[1], Giovanni Galfano, Alessandra Baratella, Luigi Castelli
[1]University of Padova (IT)

97 **High-frequency alpha activity involved in the top-down control of internal representations during working memory maintenance**
Mate Gyurkovics[1], Gabriela Cruz[1], Katarzyna Jaworska[1], Matias Palva[2], Gregor Thut[1], Satu Palva[2]
[1]University of Glasgow (UK), [2]University of Helsinki (FI)

99 **Generalized energy operators for the analysis of local image structure**
Miles Hansard[1]
[1]QMUL (UK)

101 **Set size and scene background affects individual object and ensemble perception in naturalistic scenes**
Yanina Elise Tena Garcia[1], Bianca R. Baltaretu[1], Katja Fiehler[1]
[1]Justus-Liebig Universität Giessen (DE)

103 **Characterizing Surround Suppression with Dynamic Natural Scenes**
Merve Kiniklioglu[1], Daniel Kaiser[1]
[1]Justus-Liebig University Gießen (DE)

105 **Vigilant and Prepared: Working Memory-Driven Attentional Capture by Task-Irrelevant Threat Is Contingent Upon Action Preparation**
Chris Brown[1]
[1]Bournemouth University (UK)

107 **Necker cube's dominant interpretation can be explained by a lower-is-closer perceptual bias**
Sharon Gilaie-Dotan[1], Yoav Zilbertzan[1]
[1]Bar Ilan University (IL)

109 **Temporal (Un)certainty in Visual Search**
Alisa Höflinger[1], Ulrich Ansorge[1,2,3]
[1]University of Vienna (AT), [2]Vienna Cognitive Science Hub, University of Vienna (AT), [3]Research Platform Mediatised Lifeworlds, University of Vienna (AT)

111 **The neural dynamics of objects occluded by illusory contours**
Almudena Ramirez Haro[1], Genevieve Quek[1], Manuel Varlet[1], Tijl Grootswagers[1]
[1]Western Sydney University (AU)

113 **Retinal and cortical chromatic SSVEPs in normal and anomalous trichromats**
Jenny Bosten[1], Lucy Somers[1], Ana Rozman[1]
[1]University of Sussex (UK)

115 **Revealing the time-course of mid-level feature representations in scenes using rendered stimuli and ground-truth annotations**
Agnessa Karapetian[1], Alexander Lenders[1], Vanshika Bawa[2], Martin Pflaum[3], Raphael Leuner[1], Gemma Roig[4], Kshitij Dwivedi[4], Radoslaw M. Cichy[1]
[1]Freie Universitaet Berlin (DE), [2]Albert-Ludwigs-Universitaet Freiburg (DE), [3]RWTH Aachen University (DE), [4]Goethe University Frankfurt (DE)

117 **A Unified Computational Model for Contextual Effects on Facial Emotional Recognition**
Chiahuei Tseng[1], Shougo Kaminosono[1], Tan-Ni Yang[2], Satoshi Shioiri[1], Chien-Chung Chen
[1]Tohoku University (JP), [2]National Taiwan University (TW)

119 **An in-depth investigation of face perception in developmental prosopagnosia**
Jud Lowes[1], Peter J.B. Hancock[1], Anna K. Bobak[1]
[1]University of Stirling (UK)

121 **Is this the real life? Sense of reality as measured by pupil diameter**
Ariel Berlinger[1]
[1]Haifa University (IL)

123 **Effects of light level, material appearance, and virtuality on hand movements**
Martin Giesel[1], Daniela Ruseva[1], Constanze Hesse[1]
[1]University of Aberdeen (UK)

125 **Onset disambiguation of multistable displays perception relies on accumulation of sensory evidence over time**
Alexander Pastukhov[1], Ole Joseph Littke[1], Claus-Christian Carbon[1]
[1]University of Bamberg (DE)

127 **Are gaze differences between nature and urban images due to environment type or preference?**
Jay Davies[1], Ute Leonards[1], Jasmina Stevanov[1]
[1]University of Bristol (UK)

129 **Temporal recalibration for asynchronous onset and offset of audio-visual stimuli**
Yaru Wang[1], Makoto Ichikawa[2]
[1]Chiba University (JP), [2]Graduate School of Humanities, Chiba University (JP)

131 **Extraction of facial impression factors using eye-tracking and Grad-CAM**
Takanori Sano[1], Hideaki Kawabata[1]
[1]Keio University (JP)

133 **Towards a process model of temporal preparation**
Kielan Yarrow[1]
[1]City, University of London (UK)

135 **Do optical or cortical factors limit the recognition of incomplete letters?**
Zien Huang[1], Tessa Dekker[1], Sebastian Crutch[1], Keir Yong[1], John Greenwood[1]
[1]University College London (UK)

137 **The potential of vibration based self-motion cues in reducing visually induced motion-sickness in Virtual Reality**
Katharina Pöhlmann[1], Arabi Sarveswaran[2], Vanessa Gioumes[2], Behrang Keshavarz[1]
[1]KITE Research Institute - University Health Network (CA), [2]Toronto Metropolitan University (CA)

139 **Unveiling the potential of acceleration signals for visual time-to-collision estimation**
Marlene Wessels[1], Christoph von Castell[1]
[1]Johannes Gutenberg-University Mainz (DE)

141 **Total masking by 4-dots – objective and phenomenological evidence from a spatial 2-AFC detection task**
Josephine Reuther[1], Uwe Mattler[1]
[1]Georg-August University Göttingen (DE)

143 **Somebody's watching me: Exploring the influence of gaze cueing and emotion on self-prioritisation**
Mairi Irvine[1], Marius Golubickis[1]
[1]University of Aberdeen (UK)

145 **Congenital Prosopagnosia: Face agnostic but not social-emotional agnostic**
Claus-Christian Carbon[1], Thomas Grüter[1], Martina Grüter[1]
[1]Universität Bamberg (DE)

147 **Spontaneous alternation behavior in Landolt C recognition**
Julia Haldina[1], Shalila T. Freitag[1], Saskia B. Kaczan[2], Sven P. Heinrich[1]
[1]Eye Center, Medical Center – University of Freiburg, Faculty of Medicine, University of Freiburg (DE), [2]Faculty of Medical and Life Sciences, Furtwangen University, Villingen-Schwenningen (DE)

149 **Gaze behavior reveals mind-wandering: a virtual reality experiment**
Linda Henriksson[1], Akseli Pullinen[1], Jaana Simola[2]
[1]Aalto University (FI), [2]University of Helsinki (FI)

151 **'Pathological' Demand Avoidance through the lens of a sensory processing framework**
Matt Johnson[1], Alasdair Clarke[2], Rachel Swainson[1], Rama Chakravarthi[1]
[1]University of Aberdeen (UK), [2]University of Essex (UK)

153 **EEG/ERP components underpinning the integration of prior expectations and sensory evidence in social motion perception**
Michail Ntikas[1], Eleonora Parrotta[2], Elsa Fouragnan[3], Giorgio Gannis[3], Patric Bach[1]
[1]University of Aberdeen (UK), [2]Sapienza University of Rome (UK), [3]University of Plymouth (UK)

Symposium 8
Peripheral vision: Behavioural, neural & functional perspectives
10.30–12.00 (Room 1A)

Information loss in peripheral vision: Crowding, grouping, and redundancy masking
Bilge Sayim[1]
[1]CNRS, University of Lille (FR)

Neural correlates of visual crowding in the primate brain
Anitha Pasupathy[1], Taekjun Kim[1]
[1]University of Washington (US)

Visual periphery is sufficient and necessary for continuous emotion recognition in naturally cluttered dynamic scenes
David Whitney[1], Jefferson Ortega[1]
[1]UC Berkeley (US)

Looking versus seeing in peripheral vision
Li Zhaoping[1,2]
[1]Max-Planck-Institute for Biological Cybernetics (DE), [2]University of Tuebingen (DE)

Talk Session 12
Lightness, Brightness & Colour
10.30–12.00 (Room 1B)

10.30 **Radical, experience driven changes in assumed lighting direction are domain specific**
Andrew Schofield[1], Emil Skog[2], Timothy, S Meese[1], Isabel, M.J. Sargent[2]
[1]Aston University (UK), [2]Ordnance Survey (UK)

10.45 **Lightness illusions show puzzling effects under brief exposure times**
Sae Kaneko[1], Rei Yamamoto[1], Alan Gilchrist[2]
[1]Hokkaido University (JP), [2]Rutgers University Newark Campus (US)

11.00 **Perceptual appearance in context: measures and a model**
Joris Vincent[1], Guillermo Aguilar[1], Marianne Maertens[1]
[1]Technische Universität Berlin (DE)

11.15 **Dynamical neural model of lightness computation driven by fixational eye movements**
Michael Rudd[1]
[1]University of Nevada, Reno (US)

11.30 **Intermodulation of SSVEPs used to probe bipolarity of colour representations in the cortex**
Ana Rozman[1], Jenny Bosten[1]
[1]University of Sussex (UK)

11.45 **Memory colors of familiar objects induce general color preference**
Songyang Liao[1], Tatsuya Yoshizawa[2]
[1]Guangzhou College of Technology and Business (CN), [2]Kanagawa University (JP)

Symposium 9
Perception, cognition, and action in neuropsychological patients: Bridging science and practice
10.30–12.00 (Room 3)

Impaired body representations post-stroke: insights from drawing and lesion-symptom mapping
Stephanie Rossit[1], Hannah Clarke[1], Hannah Browning[1], Petar Stermsek[1], Andreas Michaelides[1], Arran Reader[4], Fraser Smith[1], Allan Clark[1], Valerie Pomeroy[1], Wilma Bainbridge[2], Chris Baker[3], Helen Morse[1]
[1]University of East Anglia (UK), [2]University of Chicago (US), [3]National Institute of Mental Health (US), [4]University of Stirling (UK)

Revisiting the role of left and right hemispheres in action and semantic tool knowledge
Mathieu Lesourd[1], Julie Martin[2], Sébastien Hague[2], Margolise Levitre[2], Elisabeth Medeiros de Bustos[2], Guillaume Fargeix[2], Eloi Magnin[2], Thierry Moulin[2]
[1]Umr Inserm 1322 Linc (FR), [2]CHU Besançon (FR)

A dissociation between object material and material perception: a patient case study
Filipa Dourado Sotero[1], Daniela Valério[1], Filipa Miranda[2], Pedro Nascimento Alves[2], Isabel Pavão Martins[2], Jorge Almeida[1]
[1]Proaction Lab, Faculdade de Psicologia e de Ciências da Educação, Universidade de Coimbra (PT), [2]Laboratório de Estudos de Linguagem, Faculty of Medicine, Universidade de Lisboa (PT)

Visual Search in Progressive Supranuclear Palsy and Parkinson's disease: from fundamental research to diagnostic tool
Alexis Cheviet[1], Alison Lane[2], Anthony Atkinson[2], Uma Nath[3], Claire MacDonald[5], Louise Wiblin[4], Daniel T. Smith[2]
[1]University of Durham (UK), [2]Department of Psychology, Durham University (UK), [3]Neurology, South Tyneside and Sunderland NHS Foundation Trust (UK), [4]Neurology, South Tees Hospitals NHS Foundation Trust (UK), [5]Gateshead Health NHS Foundation Trust (UK)

Using Augmented Reality to assess spatial neglect: the Free-Exploration-Test (FET)
Britta Stammler[1], Thomas Schuster, Marian Lambert, Kathrin Flammer, Hans-Otto Karnath
[1]University of Tübingen (DE)

Symposium 10
From eye movements to action: Celebrating Eli Brenner's contributions to the field of Perception and Action
13.30–15.00 (Room 1A)

Temporal dynamics of foveal and peripheral processing during fixation
Cristina De La Malla Gomez[1], Martina Poletti[2]
[1]Universitat De Barcelona (ES), [2]Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY (US)

Eye movements and prediction: from following dots to understanding motion
Karl Gegenfurtner[1], Doris Braun[1], Alexander Göttker[1]
[1]Giessen University (DE)

Perception of position and motion: dependent but inconsistent
Jeroen Smeets[1]
[1]Department of Human Movement Sciences, VU (NL)

What are the implications of dissociating user and tool orientation on remote tool use?
Emily Crowe[1], Eloise Tivey[1], Simon Castle-Green[1], Praminda Caleb-Solly[1]
[1]University of Nottingham (UK)

Overconfidence about sensory precision in multisensory integration
Michael Landy[1], Fangfang Hong[2], Jiaming Xu[3], Stephanie Badde[4]
[1]New York University (US), [2]University of Pennsylvania (US), [3]University of Texas, Austin (US), [4]Tufts University (US)

Talk Session 13
Serial Effects
13.30–15.00 (Room 1B)

13.30 **Neural tuning curves for spatial frequency in past and present stimulus representations**
Thérèse Collins[1]
[1]CNRS (FR)

13.45 **Individual differences reveal similarities in serial effects across perceptual tasks, but not to oculomotor tasks**
Alexander Goettker[1], Shuchen Guan[1]
[1]Justus Liebig University Giessen (DE)

14.00 **Attention works as a filter for prior perceptual decision in serial dependence**
Lena Schädlich[1], Alicia Weithase[1], Alexander Pastukhov[1], Claus-Christian Carbon[1]
[1]University of Bamberg (DE)

14.15 **The role of stable and unstable environments on serial dependence**
Sabrina Hansmann-Roth[1]
[1]University of Iceland (IS)

14.30 **The broad utility of asymptotic regression in accounting for time effects**
Amelia Hunt[1], Alasdair Clarke[2]
[1]University of Aberdeen (UK), [2]University of Essex (UK)

14.45 **The economy of neural responses to predictable sequences of stimuli: Resource-efficient encoding and sharpening**
Songyun Bai[1], Maëlan Menétrey[2], David Pascucci[2,3]
[1]Donders Institute for Brain, Cognition and Behaviour, Radboud University (NL), [2]Brain Mind Institute, Ëcole Polytechnique Fédérale de Lausanne (EPFL) (CH), [3]Lausanne University Hospital and University of Lausanne (CH)

Talk Session 14
Individual Differences
13.30–15.00 (Room 3)

13.30 **Individual Differences in Colour Naming**
Anya Hurlbert[1], Ilgin Cebioglu[1], Gabriele Jordan[1]
[1]Newcastle University (UK)

13.45 **Experts don't adapt! The flexibility of non-face animate object representations depends on expertise**
Antonia Reindl[1]
[1]Humboldt-Universität zu Berlin (DE)

14.00 **Do we really measure what we believe we are measuring?**
Michael Herzog[1], Dario Gordillo[1], Simona Garobbio[1]
[1]EPFL (CH)

14.15 **Exploration of individual differences in search strategy**
Anna Nowakowska[1,2], Alasdair D.F. Clarke[3], Grace Whaley[2], Amelia R. Hunt[1]
[1]University of Aberdeen (UK), [2]University of Leicester (UK), [3]University of Essex (UK)

14.30 **Inter-individual variability in visual evoked potentials is not noise**
Melissa Faggella[1], Maya Roinishvili[2], Eka Chkonia[3], Michael Herzog[1]
[1]Laboratory of Psychophysics, EPFL (CH), [2]Institute of Cognitive Neurosciences, Free University of Tbilisi (GE), [3]Department of Psychiatry, Tbilisi State Medical University (GE)

14.45 **Eye-Tracking Study on Attentional Allocation to Biological Motion in Children With/Without Autism Across Ages**
Michal Hochhauser[1], Kelsey J. Dommer[2], Adham Atyabi[3], Beibin Li, Yeojin A. Ahn, Madeline Aubertine, Minah Kim, Sarah G. Corrigan, Kevin A. Pelphrey, Frederick Shic[2]
[1]Department of Occupational Therapy, Ariel University (IL), [2]Seattle Children's Research Institute (US), University of Washington (US), [3]University of Colorado (US)

Talk Session 15
Eye Movements
16.30–18.00 (Room 1A)

16.30 **Cortical Mechanisms for Trans-saccadic Feature Integration**
Doug Crawford[1], Bianca Baltaretu[2], George Tomou[1], Amirhossein Ghaderi[1]
[1]York University (CA), [2]University of Giessen (DE)

16.45 **The Effect of Sound on Visual Stability Perception During Saccades**
Hiu Mei (Doris) Chow[1], Jialiang Ma[2], Satoshi Shioiri[2], Chia-Huei Tseng[2]
[1]St. Thomas University (US), [2]Research Institute of Electrical Communication, Tohoku University (JP)

17.00 **Unlocking the Diagnostic Potential of Eye Movement Tasks**
Thom Wilcockson[1]
[1]Loughborough University (UK)

17.15 **Perisaccadic visual sensitivity during saccadic gain adaptation**
Nina Hanning[1], Lisa Kroell[1], Martin Rolfs[1], Heiner Deubel[2]
[1]Humboldt-Universität zu Berlin (DE), [2]Ludwig-Maximilians-Universität München (DE)

17.30 **Environmental regularities are predictive of saccade direction biases via combination of allocentric and egocentric mechanisms**
Stephanie Reeves[1], Jorge Otero-Millan[1]
[1]University of California Berkeley (US)

17.45 **Reward-based modulations of saccade kinematics shape the time course of presaccadic attention**
Lukasz Grzeczkowski[1], Oliver Stein[1], Madeleine Gross[2], Martin Rolfs[1]
[1]Humboldt Universität zu Berlin (DE), [2]University of California, Santa Barbara (US)

Talk Session 16
Memory in Perception
16.30–18.00 (Room 1B)

16.30 **Flexible allocation of visual selection and action planning during visual working memory**
Rose Nasrawi[1], Freek van Ede[1]
[1]Vrije Universiteit Amsterdam (NL)

16.45 **Recall requirements drastically modulate working memory representations in human visual cortex**
Giuliana Martinatti Giorjiani[1], Rosanne L. Rademaker[1]
[1]Ernst Struengmann Institute (DE)

17.00 **Neural mechanisms of episodic memory formation revealed by EEG frequency tagging**
Çiçek Güney[1], Yasemin Gunindi[1], Efsane Algin[1], Andrey Nikolaev[2], Mikael Johansson[2], Nihan Alp[1]
[1]Sabanci University (TR), [2]Lund University (SE)

17.15 **Memory for warning patterns: a specific link to neural excitation?**
Federico De Filippi[1], Olivier Penacchio[2], Akira R. O'Connor[3], Julie M. Harris[3]
[1]University of St Andrews (UK), [2]Computer Science Department, Universitat Autònoma de Barcelona (ES), [3]School of Psychology & Neuroscience, University of St Andrews (UK)

17.30 **Long-term memory flexibly supports visual working memory during natural behaviour**
Levi Kumle[1], Joel Kovoor[1], Rhianna Watt[1], Sage Boettcher[1], Kia Nobre[2], Dejan Draschkow[1]
[1]University of Oxford (UK), [2]Yale University (US)

17.45 **Shifting Reliance between the Internal and External World: A Meta-Analysis on Visual-Working Memory Use**
Tianying Qing[1], Leendert Van Maanen[1], Christoph Strauch[1], Stefan van der Stigchel[1]
[1]Utrecht University (NL)

Talk Session 17
Multisensory Processing
16.30–18.00 (Room 3)

16.30 **Tactile intensity modulates visuotactile time estimates in a non-optimal fashion**
Nedim Goktepe[1], Bora Celebi[2], Knut Drewing[2]
[1]INM - Leibniz Institute for New Materials (DE), [2]Justus-Liebig University Giessen (DE)

16.45 **The development of a validated video database to investigate multi-sensory processing in misophonia and misokinesia**
Paris Ash[1], Tim Griffiths[1], Quoc Vuong[1]
[1]Newcastle University (UK)

17.00 **Audiovisual temporal recalibration reflects both causal inference and differing auditory and visual temporal precision**
Michael Landy[1], Luhe Li[1], Fangfang Hong[2], Stephanie Badde[3]
[1]New York University (US), [2]University of Pennsylvania (US), [3]Tufts University (US)

17.15 **Perception of temporal synchrony not a prerequisite for multisensory integration**
Erik van der Burg[1], Robert Jertberg[1], Hilde Geurts[2], Bhismadev Chakrabarti[3], Sander Begeer[1]
[1]Vrije Universiteit Amsterdam (NL), [2]University of Amsterdam (NL), [3]University of Reading (UK)

17.30 **Age, Not Autism, Influences Multisensory Integration of Speech Stimuli among Adults**
Robert Jertberg[1], Sander Begeer[1], Hilde Geurts[2], Bhismadev Chakrabarti[3], Erik Van der Burg[1]
[1]Vrije Universiteit (NL), [2]University van Amsterdam (NL), [3]University of Reading (UK)

17.45 **Multisensory degradation in speech perception reveals the processing of scalar implicatures**
Luigi F. Cuturi[1], Giorgia Bonaccorsi[1], Daniele Panizza[1]
[1]University of Messina (IT)