Dear colleagues and friends,

Welcome to ECVP 2015!

We are delighted that you could join us in Liverpool for the 38th European Conference on Visual Perception. Attendees from all over the world (not just Europe) have contributed their research on human, machine and animal perception and related cognitive phenomena.

We hope that during the meeting you will learn about innovative ideas and theories, enlightening empirical findings, and state-of-the art scientific techniques. In addition we hope you will have plenty of opportunity for social interactions with old and new colleagues. The campus of the University of Liverpool is located in the city of Liverpool and the area provides breath-taking venues and sights, a stirring cosmopolitan environment, and a vibrant local community. Although no absolute guarantee can be given on the weather, this month is usually dry and sunny.

We are extremely grateful to all of you who have played a role during the planning of this meeting: the Scientific Committee, Sponsors, Exhibitors, and Symposia organisers. Most importantly, of course, we would like to thank all authors and co-authors for contributing such scientifically important and exciting work to the programme and to all attendees who bring their expertise and enthusiasm to Liverpool and to ECVP 2015.

The organizing committee,

Marco Bertamini  Kate Bennett  Rebecca Lawson  Alexis Makin  Johan Hulleman  Sophie Wuerger

And

Adel Ferrari  Letizia Palumbo  Giulia Rampone

Logo and book cover design by Luca Tuberoni

www.lucatuberoni.com
ACKNOWLEDGMENTS

A special thank to all reviewers of the ECVP abstracts:


And to the volunteers:
Max Aldridge, Sarah Broughton, Stefano Cecchetto, Tushar Chauhan, Elisabeth Collier, Joanna Fairlie, Adel Ferrari, Martin Guest, Jennifer Ivison, Burkinshaw Joshua, Carol Laidler, Elizabeth Lewis, Michael Malone, Letizia Palumbo, Marianne Piano, Andrea Piovesan, Daniel Poole, Giulia Rampone, Vicente Soto, Nicola Street, Laurence Tidbury, Ieva Timrote, Damien Wright

Volunteers and organizers will be wearing T-shirts with the red ECVP2015 logo in order to be recognized and provide help and support.

Exhibitors

CRS
VPixx
Tobii
SR-Research
Oxford University Press
Pion/Sage
MIT Press
Springer
Kay Pictures
Conference Venues

Metropolitan Cathedral
Cathedral House
Mount Pleasant
Liverpool, L3 5TQ

Central Teaching Hub, University of Liverpool
Faculty of Science & Engineering
Off Brownlow Hill
Liverpool, L69 3BX

Mountford Hall, University of Liverpool
Liverpool Guild of Students,
Mount Pleasant
Liverpool, L3 5TR

Events Venues

Everyman Theatre
Williamson Square,
Liverpool
L1 1EL

Camp & Furnace
67 Greenland St,
Liverpool, L1 0BY

St George's Hall
St George's Place
Liverpool, L1 1JJ

Bombed Out Church (St Luke's Church)
Leece Street
Liverpool, L1 2TR
Registration and on-site payment
You can register for ECVP 2015 on Saturday 22nd August from 13:00 until 18:00 at the Everyman Theatre (Hope Street). You can register on campus Sunday 23rd August from 8:30 until 17:30 within the Central Teaching Hub. Registration is also open every day from Monday 24th August to Thursday 27th August from 8:30 to 9:00 within the Central Teaching Hub.

At registration you will receive the conference bag containing the conference materials. It is very important that you wear your conference badge to access all conference events.

If you have not paid the conference fees in advance, you can do it at the registration desk. If still available we will then provide you with the material.

Name Badge
If you are registered for the satellite meeting (VSAC) there is a single badge holder and lanyard in which you can display both badges. The VSAC badge has a yellow theme; the ECVP logo instead is red. If registered in advance the ECVP badge will also have a QR code. When scanned this will let you share your email address.

Audiovisual Equipment for Talk
A computer and LCD projectors are present in the lecture theatres. You can bring presentations on USB memory cards or on your own computer. Presenters must set computers up before the start of the session in which they are presenting. We also recommend that you test your presentation before your session.

Coffee breaks and Lunch
Two coffee breaks and one lunch break are available every day of the conference in Mountford Hall. There is also a variety of bars and markets around the campus for coffee, snacks or lunch.

Social Dinner
If you have purchased a ticket for the Social Dinner in St George’s Hall, you will receive it during registration. Cost for one ticket is £55 per person, and £18 for children under the age of 14. Please ask at the registration desk for further details. The dress code is smart casual.

Guests
If you are coming with a partner or family, they are welcome to the open reception events. They can come to the Welcome Reception at the Metropolitan Cathedral on Sunday, the Illusions Parade on Tuesday and the Farewell party in the Bombed Out Church on Thursday. However, they will not be allowed into the lecture theatres without registration. It may be possible that there will be free tickets also for the opening event at the Everyman theatre. You will need to check online or at registration.

Internet access/wi-fi
Free wi-fi access will be available throughout the conference venue. If you are visiting from an institution that participates in the eduroam scheme, you will be able to login to the eduroam service using your own username and password. Alternatively, GuestNet provides access to the Internet for Guests and users can get a temporary username and password for up to 7 days allowing them access to the service. You can get GuestNet username and password at the registration desk.

Copying and Printing
Here a list of printing and photocopying shops within walking distance form the University campus.
Desktop Print: 57, Bold St, L1 4EU
Rayross Print Factory: 96 Duke St, L1 5AG
Max Spielmann: 34, Renshaw St, L1 4EF

Insurance and Emergency
The conference organizers and the conference/events venues shall not be held liable for personal injury or any loss or damaging to the belongings of the conference participants, either during or as a result of the conference. Please check the validity of your own insurance.

In emergency dial 999 to contact the police, fire or ambulance service.

Non-emergencies:
Police: +44 151 7096010    Fire Service: +44 151 296 4000    Ambulance: +44 151 260 5220

Public transport
All conference and events venues, as well as the city center, are within walking distance from the University Campus. Visit the website www.merseytravel.gov.uk for information regarding Bus and Train travel (routes and timetables) and Mersey ferries.

Taxi:
Delta Taxi: (+44) 151 922 7373    Village Taxi: (+44) 151 4277909
Alpha Taxi: (+44) 151 7228888    Excel Taxi: (+44) 151 7288888
University Campus MAP
OPENING EVENT: Sunday 23rd August
PERCEPTION LECTURE
Metropolitan Cathedral 18:30-19:30

Andrew Watson (MS 262-2 NASA Ames Research Center)
Modeling Vision: Nine Lessons

Following the Perception Lecture we will have the Welcome Reception at the Metropolitan Cathedral and you will be assisted by our volonoures. Please, wear your name badge when entering. There will be drinks and food (canapé style) for all the attendees.

Liverpool Metropolitan Cathedral, formally the Metropolitan Cathedral of Christ the King, is the seat of the Archbishop of Liverpool and the mother church of the Roman Catholic Archdiocese of Liverpool. The cathedral’s architect, Frederick Gibberd, was the winner of a worldwide design competition. Construction began in 1962 and took five years. The Grade II Metropolitan Cathedral is one of Liverpool’s many listed buildings.

CONFERENCE DINNER: Wednesday 26th August
St George Hall from 19:30

The Band Halcyon Syncopators will play a range of instrumental and vocal numbers (all Jazz from 1910-1960).

St George’s Hall is opposite to Lime Street railway station. It is a building in Neoclassical style which contains concert halls and law courts, and is recorded in the National Heritage List for England as a designated Grade I listed building.
ILLUSIONS PARADE: Tuesday 25th August
At Camp and Furnace 18:30-24:00 (Free admission)

ORGANIZERS: Letizia Palumbo and Giulia Rampone
l.palumbo@liverpool.ac.uk and giulia@liverpool.ac.uk

Address: 67 Greenland St. L10BY
CLOSING NIGHT EVENT: Thursday 26th August
St Luke Church from 18:30

Party night at St Luke (known as the Bombed Out Church) with a Band playing most famous Beatles’ songs.

St Luke’s Church is a former Anglican parish church, which is now a ruin. The church was built between 1811 and 1832 by John Foster, senior and John Foster, junior, father and son.
Legend

The magic number seven!

Every abstract has a 7 characters code. This contains information about time and location of the presentation.

First character - Day
1 = Monday
2 = Tuesday
3 = Wednesday
4 = Thursday

Second character - Type
P = poster
T = oral presentation
S = symposium presentation

Third character - Period
1 = morning (for talks 9-11, for posters 11-12)
2 = midday (for talks 13:30-15, for posters 15-16)
3 = afternoon (for talks 16-18)

Fourth character - Room
A = Lecture Theatre A
B = Lecture Theatre B
C = Lecture Theatre C
M = Mountford Hall

Fifth to Seventh - Slot
This is a number expressed as 001, 002 and so on. It gives the slot for a talk within a session and the poster board number for a poster.

Examples:
1P1M073 is a poster on Monday in the period 11-12 in Mountford Hall and the poster board is number 73.
3S1A005 is a symposium presentation on Wednesday in the period 9-11 in room A and it is the fifth presentation in the session.
Saturday, August 22nd

15:00-18:00 Session 1: Everyman
Screening of Tim's Vermeer followed by panel discussion
LOCATION: Everyman Theatre
Sunday, August 23rd

09:00-17:30 Visual Science of Art (Satellite conference)
http://www.ecvp.org/2015/sac.html
LOCATION: A

09:00-17:30 Animal Vision (Satellite conference)
http://www.theava.net/meetings/camocon2015.html
LOCATION: D

18:30-19:30 Session 3: Perception Lecture
Perception Lecture Andrew Watson
LOCATION: Met Cathedral

18:30 Andrew B. Watson

19:30-22:00 Welcome Reception
(sponsored by Perception)
LOCATION: Met Cathedral

Andrew B. Watson
NASA Ames Research Center
andrew.b.watson@nasa.gov

Perception Lecture - Met Cathedral
Sunday, 23rd - 18.30-19.30
Modeling Vision: Nine Lessons

Abstract:
A model is an explicit simplified working representation of a physical process. Modeling is the means by which we transform the whirring, buzzing, confusion of data into a coherent story. In this era, models usually take the form of computer code. Despite their essential role, we do not yet have a stable foundation of shared consensus codes to describe the workings of early vision. In this talk I will share some lessons that I have learned about modeling of vision, and offer some ideas about how we might move from a predominantly empirical science to one based on an evolving infrastructure of theory.
Monday, August 24th

09:00-11:00 Session 4A: Beyond Veridicalism: alternatives to conventional vision theory
CHAIR: Johan Wagemans
LOCATION: A

09:00 Johan Wagemans
Alternatives to veridicalism in vision theory [1S1A001]

09:20 Jan Koenderink and Andrea Van Doorn
Template structure of visual awareness [1S1A002]

09:40 Robert Pepperell
Where do we see? [1S1A003]

10:00 Manish Singh
Perception, Inverse optics, and Probabilistic inference [1S1A004]

10:20 Paul Hibbard
The reliability of experience and the experience of reliability [1S1A005]

10:40 Vebjørn Ekroll
The immediate visual quality of visibility: how the visual system communicates confidence [1S1A006]

09:00-11:00 Session 4B: Visual perception research for use in the vision clinic
CHAIR: Laurence Tidbury
LOCATION: B

09:00 Andrew Parker, Gaëlle Coulon and Holly Bridge
Cortical Organization for Binocular Pattern Vision [1S1B001]

09:17 Jenny Read, Kathleen Vancleef, Ignacio Serrano-Pedraza, Graham Morgan, Craig Sharp and Michael Clarke
ASTEROID: Accurate STEReoacuity measurement in the eye clinic [1S1B002]

09:34 Claudia Lunghi, Marika Berchicci, Maria Concetta Morrone, David Charles Burr and Francesco Di Russo
Short-term monocular deprivation alters early components of Visual Evoked Potentials [1S1B003]

09:52 Catherine Manning, Peter Jones, Tessa Dekker and Elizabeth Pellicano
How does inattentiveness affect threshold estimates in children? [1S1B004]

10:09 Renate Wallthes, Christiane Freitag and Namita Jacob
Cerebral visual impairment in children [1S1B005]

10:26 Kathleen Vancleef, Yasmine Petre, Eva Janssens, Silke Bäumer, Els Ortibus and Johan Wagemans
CVIT 3-6, a screening test for cerebral visual impairment in young children [1S1B006]

10:43 Zahra Hussain, Andrew Astle, Ben Webb and Paul McGraw
Spatial mapping of retinal correspondence in strabisms [1S1B007]

09:00-11:00 Session 4C: Ecological validity in social eye movement research
CHAIR: Luke Tudge
LOCATION: C

09:00 Megan Freeth and Andrius Vablas
Temporal dynamics of social attention in face-to-face situations [1S1C001]

09:15 Amelia Hunt, Arash Sahraei and C. Neil Macrae
Context dependence of attentional capture [1S1C002]

09:30 Eleni Nasiopoulos, Evan Risko, Tom Foulsham and Alan Kingstone
The social presence effect of wearing an eye tracker: Now you see it, now you don't [1S1C003]

09:45 Tom Foulsham
The interpretation of gaze in two-way social interactions [1S1C004]

10:00 Matthias Gobel and Daniel Richardson
How attention is shaped by beliefs about other people [1S1C005]

10:15 Kaitlin Laidlaw and Alan Kingstone
Looking at people in real life: Methods for investigating social attention [1S1C006]

11:00-12:00 Session 5
Vision & Cognition (Expertise, Learning, Memory & Decisions) / The Human Face (Detection, Discrimination & Expression) / Visual Art, Attraction & Emotion.
LOCATION: Mountford Hall

11:00 Sven Panis and Thomas Schmidt
The time-course of behavioral positive and negative compatibility effects within a trial [1P1M001]

11:00 Asaf Ben Shalom and Tzvi Ganel
Weber's law in iconic memory [1P1M003]

11:00 Tim Donovan, Peter Walker and Damien Litchfield
Progressively removing high spatial frequencies: the impact on performance when searching for cancer in chest x-rays. [1P1M005]

11:00 Tadamas Sawada
A likelihood distribution of d’ in a signal detection experiment [1P1M007]

11:00 Joseph Brooks, Alexia Zoumpoulaki and Howard Bowman
Avoid Fishing: Data-driven selection of regions-of-interest in EEG/MEG studies that avoids inflating false positive rates [1P1M009]

11:00 Stephan Lancier and Hanspeter A. Mallot
Likelihood Estimation of Places in Local Environments [1P1M11]

11:00 Fabian Gebauer and Claus-Christian Carbon
Perceiving the Ukraine Crisis is a matter of visual depiction [1P1M13]
11:00 Mikhail Sopov and Alisa Aleshkovskaya
The effect of prime-target congruence on subsequent prime perception: An ERP study [1P1M015]

11:00 Szilvia Linnert, Vincent Reid and Ger Westermann
Top-down and bottom-up effects on the visual N1 category differences. [1P1M017]

11:00 Gerly Yann and Nelson Cowan
The Interplay Between Emotions and Cognitive Task Performance [1P1M019]

11:00 Christianne Jacobs, Jane Jacob and Juha Silvanto
Metacognitive sensitivity in visual working memory is determined by more than the integrity of the original memory trace [1P1M021]

11:00 Radovan Siki and Hana Svatonova
Visual recognition memory for aerial photographs [1P1M023]

11:00 Maciej Kosilo, Corinna Haenschel and Jasna Martinovic
Preferred inputs of luminance signals for visual working memory. [1P1M025]

11:00 Boris Quitlard, Jessica Guilhe, Mélanie Marcotte, Jean-Charles Quinton, Laura Barca, Giovanni Pezzulo, Michéle Colomb, Martial Mermillod and Marie Izautte
Effects of noise and scene-target spatial congruence through visual exploration and target identification in a perceptual decision-making process. [1P1M027]

11:00 Efson Annc, Markus Conci, Hermann Müller and Thomas Geyer
Multiple target location learning in repeated visual search: adaptation or new learning? [1P1M029]

11:00 Stephanie Larcombe, Christopher Kennard and Holly Bridge
Intensive visual perceptual learning may increase the specificity of task improvement [1P1M031]

11:00 Takahiko Horiuchi, Noritumi O'Hashi and Keita Hirai
Effects of Material Appearance on Visual Memory [1P1M033]

11:00 Polytimi Frangou, Rui Wang, Andrew P. Prescot, Marta Correia and Zoe Kourtzi
Inhibitory mechanisms for visual learning in the human brain [1P1M035]

11:00 Yu Ying Lin and Hiroshi Ashida
Effects of Using Detailed Illustrations in Textbook Design on Science Learning [1P1M037]

11:00 Chiara Santolin, Orsola Rosa Salva, Giorgio Vallortigara and Lucia Regolin
Unsupervised visual statistical learning in the newborn chick (Gallus gallus) [1P1M039]

11:00 Andre M. Cravo, Louise C. Barnes, Marcelo B. Reyes and Marcelo S. Caetano
Oscillatory mechanisms involved in the coding of temporal errors [1P1M041]

11:00 Neil Dundon, Mohammad Zia Ul Haq Kattu and Giovanni d’Avossa
Averaging effects in spatial working memory do not depend on stored ensemble statistics [1P1M043]

11:00 Christopher Luke and Petra Pollux
Lateral Presentation of Faces Alters Overall Viewing Strategy [1P1M045]

11:00 Minoru Nakayama and Masahiro Yasuda
Responses of ERPs and eye movements to the recognition of clusters of facial expressions [1P1M047]

11:00 Ivan Basyul, Kristina Ananyeva and Alexander Demidov
Cross-cultural differences of fixation patterns in the perception of human faces [1P1M049]

11:00 Kae Nakajima, Tetsuto Minami and Shigeki Kanauchi
Face and background colour effect on facial expression perception [1P1M053]

11:00 Yjperd Jellema, Joanna Wincenciap, Letizia Palumbo, Bruce Keefe and Nick Barracough
Attribution of emotional state of mind modulates the size of facial expression aftereffects [1P1M055]

11:00 Luc Boutsen, Nathan Pearson and Martin Juttner
The effect of disfiguring features on covert and overt attention to faces [1P1M057]

11:00 Ryu Takagi, Motonori Kurosuni, Maya Hongo, Koji Mizukoshi and Miyuki G. Kamachi
Facial glossiness and age estimation [1P1M059]

11:00 Louise Delicato, Jack Routledge and Dawn Williams
Motion makes fearful facial expressions more detectable [1P1M061]

11:00 Olga A. Korolkova
Adaptation to natural dynamic facial emotional expressions [1P1M063]

11:00 Martin Juttner and Katherine Quinlan
Dissociation of detection and evaluation of facial expressions in adolescence [1P1M065]

11:00 Luyan Ji and Gilles Pourtois
Limited processing capacity for extracting mean emotion from multiple faces [1P1M067]

11:00 Joanna Wincencaiak and Louise Delicato
Face-shape facilitates detection of fearful facial expressions. [1P1M069]

11:00 Charles C.-F. Or, Taia L. Retter and Bruno Rossion
The effect of head orientation on face detection in natural images as evidenced by fast periodic visual stimulation [1P1M071]

11:00 Jisien Yang
Gender difference in 3D face recognition [1P1M073]

11:00 Kazusa Minemoto and Sakiko Yoshikawa
Intensity of the facial expressions influences the aftereffect of facial expressions [1P1M075]

11:00 Rachel Bennetts, Ebony Murray, Tjan Boyce and Sarah Bate
The development of face and object processing in childhood [1P1M077]

11:00 Priscilla Heard and Raagini Kashyap
How well is Emotion recognized in faces 15degrees in the periphery, and where do people look when allowed to fixate the face? [1P1M079]

11:00 Chien-Kai Chang, Shun-Fu Hu and Sarma Hui-Lin Chien
Taiwanese political parties can also be differentiated by face: Exterior parts of the face matter [1P1M081]

11:00 David Keeble, Hao Keat Wong and Ian Stephen
The Own-Race Bias for Face Recognition in Malaysians and Whites [1P1M083]

11:00 Katie Fisher, John Towler and Martin Eimer
Impaired identity discrimination in developmental prosopagnosia as measured with steady state visual evoked potentials in an oddball task. [1P1M085]
11:00  Thomas Papathomas, Attila Farkas, Tom Grace and Sarah Saltor  
Processing of Depth-Inversion Illusions: The special case of faces [1P1M087]

11:00  Yağmur Güçlükür, Richard Jacobs and Rob van Lier  
Differential effects of task anticipation on liking of familiar surfaces [1P1M089]

11:00  Susanne Röder and Claus-Christian Carbon  
Average faces: Skin texture more than facial symmetry predicts attractiveness perceptions of female faces [1P1M091]

11:00  Petra Pollux and Kun Guo  
Effect of viewpoint and face visibility in whole body expression recognition [1P1M093]

11:00  Michael Papasavva, Louise Ewing, Patricia Ferreira, Anne Richards and Marie L Smith  
Individual differences in the rewarding nature of faces [1P1M095]

11:00  Anne Richards, Lieke Dittmer, Stacey Williams and Marie Smith  
The rewarding value of attractive faces: modulating effects of emotion, eye-gaze and empathy. [1P1M097]

11:00  Nick Taubert, Junnu Li, Dominik Endres and Martin A. Giese  
Perception of emotional body expressions depends on concurrent involvement in social interaction [1P1M099]

11:00  Motonori Yamaguchi and Sarah Harwood  
The Influence of Fear-Inducing Stimuli on Learning of Visual Context [1P1M101]

11:00  Divita Singh and Meera Sunny  
(No) Role of emotions in Emotion Induced Blindness [1P1M103]

11:00  Joanna Pilarczyk, Emilia Schwertner and Michał Kuniecki  
The menstrual cycle influences attending to evolutionary-relevant visual stimuli. An eye-tracking study. [1P1M105]

11:00  Katie Jones, Derrick Watson and Melina Kunar  
I know what you’re doing!: Awareness of other people’s intentions interfere with cognitive task performance [1P1M107]

11:00  Stefan A. Ortlieb, Uwe C. Fischer and Claus-Christian Carbon  
Burke’s fallacy: Is there a male gaze in empirical aesthetics? [1P1M109]

11:00  Javier Vahí-Vihuales, Robert Pepperell, Guido B. Corradi, Gerardo Gómez-Puerto and Enric Munar  
Visual Preference for Curvature and Art Paintings: Some Data [1P1M111]

11:00  Haruyuki Kojima  
Blue color enhances the performance in creativity tasks [1P1M113]

11:00  Shwu-Lih Huang and Wen-Hung Liao  
The Importance of Diagonal Axes in Aesthetic Appreciation [1P1M115]

11:00  Adam Pedley, Alexandra Grandison and Paul Sowden  
Could a red pen really lower maths test scores? An investigation of colour driven cognitive effects. [1P1M117]

11:00  Gerardo Gómez-Puerto, Enric Munar, Fumihiro Kano and Josep Call  
Eye-tracking of primate’s preference for curvature [1P1M119]

11:00  Goro Maehara, Shinya Saïda and Hiromi Wake  
Either of vertical or horizontal stripes on clothing makes the wearer look slimmer. [1P1M121]

11:00  Irina Blinnikova, Anna Izmalkova and Olga Marchenko  
How do emotions affect visual semantic search? [1P1M123]

11:00  Theresa K. Reiter, Stefan A. Ortlieb and Claus-Christian Carbon  
Kitsch: Is it better than its reputation? Comparing explicit and implicit aesthetic processing [1P1M125]

11:00  Inez Greven, Paul Downing and Richard Ramsey  
Extracting social information from the visual image of bodies [1P1M127]

11:00  Claudia Muth, Claus-Christian Carbon and Vera M. Hesslinger  
Unsolvable, yet insightful: The appeal of indeterminate and ambiguous artworks [1P1M129]

11:00  Muwei Jian and Junyu Dong  
Three-dimensional Reconstruction of Traditional Chinese Calligraphy Arts for Realistic Perception [1P1M131]

11:00  Letizia Palumbo, Nicole Ruta and Marco Bertamini  
It is more difficult to judge global properties of shapes described by vertices than by curvature extrema [1P1M133]

11:00  Ivana Franke and Bilge Sayım  
Spatial vision research in contemporary art practice: No room for ‘perceptual errors’ [1P1M135]

11:00  Nicholas Hedger, Katie Gray, Wendy Adams and Matthew Garner  
Are visual threats prioritised in the absence of awareness? A meta-analysis involving 2559 observers. [1P1M137]

11:00  Michał Kuniecki and Joanna Pilarczyk  
Negative emotional objects cause pupil dilation despite low signal-to-noise conditions. [1P1M139]

13:30-15:00 Session 6A: Attention
CHAIR: Todd Horowitz
LOCATION: A

13:30  Robert Allison and Margarita Vinnikov  
Simulating spatial auditory attention in a gaze contingent display: The virtual cocktail party [1T2A001]

13:45  Stephen Gareth Edwards, Lisa Stephenson, Mario Dalmasso and Andrew Bayliss  
Social orienting in gaze leading: A mechanism for shared attention [1T2A002]

14:00  Stefanie I Becker and Jenna E Axtens  
Feed-forward feature-based attention modulates attentional capture and gaze capture by irrelevant onsets in visual search [1T2A003]

14:15  Ruth Rosenholtz, Lavanya Sharan and Emily Park  
Why don’t we see the gorilla? Looking in the wrong place, attending to the wrong objects, or doing the wrong task? [1T2A004]
14:30 Zhongqiang Sun, Wenjun Yu, Jifan Zhou, Meng Zhang and Mowe Shen
Perceiving Crowd Attention: consensus gaze following in human crowds [1T2A005]

14:45 Katherine Burnett, Isabel Arend and Avishai Henik
Motion direction is processed automatically [1T2A006]

13:30-15:00 Session 6B: Surface and texture
CHAIR: Tim Meese
LOCATION: B

13:30 Ichiro Kuriki
The effect of ambiguity of material perception on the mode of color appearance [1T2B001]

13:45 Sabrina Hansmann-Roth, Sylvia Pont and Pascal Mamassian
Gloss perception of photographs and real multi-material objects [1T2B002]

14:00 Edward Adelson, Ivaylo Boyadjzhiev, Sylvain Paris and Kavita Bala
Modifying material appearance with bandsifting operators [1T2B003]

14:15 Dicle Dovencioglu, Roby M. Vota, Ohad Ben-Shahar, Maarten W. A. Wijntjes and Katja Doerschner
Surface reflectance and motion characteristics affect perceived bumpiness of 3D-rotating objects [1T2B004]

14:30 Jasmina Stevanov, Laszlo Talas, Michele Furlan, Nick Scott-Samuel and Hiroshi Ashida
Neural Representation of Spectral Densities in IT Cortex [1T2B005]

14:45 Tomoyuki Naito and Hiromichi Sato
Absolute and relative spatial frequency tuning in V1 neurons [1T2B006]

13:30-15:00 Session 6C: Vision, preference and emotion
CHAIR: Ární Kristjánsson
LOCATION: C

13:30 Anna Franklin, Alice Skelton and Gemma Catchpole
Biological foundations of adult colour naming and preference are revealed by infants’ response to colour [1T2C001]

13:45 Andrey Chetverikov, Omar Johannesson, Maria Kuvaldina and Ární Kristjánsson
Missing it, and missing it badly: negative affect induced by missed changes in change blindness paradigm [1T2C002]

14:00 Gregor Hayn-Leichsenring
Low-level Image Properties correlate with Personal Traits in Artificial Face Images [1T2C003]

14:15 Richard Ramsey
Functional integration of neural signals during person perception [1T2C004]

14:30 Giulia Rampone, Marco Bertamini and Alexis Makin
Exogenous cuing of attention increases preference for abstract shapes [1T2C005]

14:45 Larissa Szymbek and David H. Simmons
The Effectiveness of Augmented Reality in Enhancing the Experience of Visual Impact Assessment for Wind Turbine Development [1T2C006]

15:00-16:00 Session 7
Vision & Cognition (Expertise, Learning, Memory & Decisions) / The Human Face (Detection, Discrimination & Expression) / Visual Art, Attraction & Emotion
LOCATION: Mountford Hall

15:00 Melina Kunar, Miao Yu, Konstantinos Tsetsos, Nick Chater and Derrick Watson

15:00 Doug J. K. Barrett, David Souito and Tamaryn Menneer
Attending redundant information increases the precision of visual working memory for complex stimuli [1P2M004]

15:00 Daniel Gunnell and Derrick Watson
Conversation, a risky business: Naturalistic conversation changes risk behaviour and loss perception [1P2M006]

15:00 Yuji Nihei, Tetsuto Minami and Shigeki Nakauchi
An optimum stimulation method in SSVEP-Based researches and BCIs [1P2M008]

15:00 Bobby Stuifzand and Roland Baddeley
Eye movement strategies are not optimal: people simply employ reasonable but idiosyncratic search strategies [1P2M010]

15:00 Jade Jackson and Alexandra Woolgar
Overlapping neural codes: Individual frontal voxels are more likely to be re-used if the encoded stimuli are more distinct [1P2M012]

15:00 Kyoko Hine and Yuji Itoh
Not only excitation but also inhibitory processing is carried over into the subsequent task [1P2M014]

15:00 Andreas Schmitt and Thomas Lachmann
Letters in the forest: global precedence effect disappears for letters but not for non-letters under reading-like conditions [1P2M016]

15:00 Olga Marchenko
Timed object naming in Russian language [1P2M018]

15:00 Achille Pasqualotto
Frontal transcranial random noise stimulation improves the acquisition of verbal knowledge [1P2M020]

15:00 Louise Sarah Ther Allen-Walker, Alex Baxendale, Reneta Krasimirova Kiyakoy, Sophie Lawrie and Paloma Mari-Belfa
Anatomical dissociations of forward and backwards semantic processing in the cerebellum using theta burst stimulation. [1P2M022]
15:00 Giovanni d'Avossa, Neil Dundon, Zia Katshu, Daniel Roberts, Bronson Harry, Craig Roberts, Paul Downing and Elwyn Charles Leek
Lesions of the Medial Occipito-Temporal cortex affect spatial binding of sensory and memory data [1P2M024]

15:00 Hannah Morgan and Simon Davies
Cross-dimensional correspondences in perception enhance short-term memory for congruent but not incongruent shape-elevation and shape-pitch feature pairs [1P2M026]

15:00 Marta Rossi and Yair Pinto
Slots or resources? It depends on the type of visual memory. [1P2M028]

15:00 Martin Thirkettle, Tom Stafford and Amaka Offiah
Internet Based Measurement of Visual Expertise in Radiological Skill [1P2M030]

15:00 Sylwia Macinska, Manon Krol and Tjeerd Jellesma
Variations in implicit social learning in the typically-developed population. [1P2M032]

15:00 Thomas Ditye
Distributed adaptation facilitates long-term face aftereffects [1P2M034]

15:00 Vasileios Kariatis, Rui Wang, Guy Williams, Peter Tino, Andrew Welchman and Zoe Kourtzi
White-matter connectivity for learning of hierarchical structures [1P2M036]

15:00 Joaquin Navajas, Harpal Panesar, Uri Hertz, Mehdi Keramati and Bahador Bahrami
Tracking Perceptual Uncertainty in Rapid Serial Visual Presentations [1P2M038]

15:00 Yingzi Xiong, Junyun Zhang and Cong Yu
Under-stimulation or untrained orientation may explain orientation specificity in perceptual learning [1P2M040]

15:00 Ben S. Webb, Paul V. McGraw, Dennis M. Levi and Roger W. Li
The perceptual costs and benefits of learning to multitask [1P2M042]

15:00 Jodie Davies-Thompson, Kimberley Fletcher, Charlotte Hills, Sherryse Corrow, Raika Pancaroglu and Jason J.S. Barton
Perceptual training of faces in rehabilitation of acquired prosopagnosia [1P2M044]

15:00 Sandra Utz and Claus-Christian Carbon
Impaired configural processing for other-race faces revealed by a Thatcher illusion paradigm [1P2M046]

15:00 Tzvi Ganel and Gai Namdar
Effects of configural processing on the perception and the spatial resolution of face features [1P2M048]

15:00 Corinne Green and Kun Guo
What personal factors lead to individual differences in categorizing facial expressions of emotion? [1P2M050]

15:00 Takuma Takehara, Makiko Saruyama and Naoto Suzuki
Dynamic Facial Expression Recognition in Low Emotional Intensity and Shuffled Sequences [1P2M052]

15:00 Marie Smith, Blanka Volná and Louise Ewing
The visual information driving familiarity and identity judgements from faces. [1P2M054]

15:00 Isabelle Bülthoff, Betty Mohler and Ian M; Thornton
Active and passive exploration of faces [1P2M056]

15:00 Edoardo Zamuner and William Hayward
Adaptation to Perceived and Imagined Facial Gender [1P2M058]

15:00 Koji Mizukoshi, Maya Hongo, Motonori Kurosumi and Miyu G. Kamachi
Influence of viewpoints on facial age perception with eye movement analysis during making a judgment [1P2M060]

15:00 Motonori Kurosumi, Maya Hongo, Jiro Yabuzaki, Koji Mizukoshi and Miyu G. Kamachi
Influence of facial skin movement and viewpoints on age perception [1P2M062]

15:00 Tobias Matthias Schneider and Claus-Christian Carbon
On the genesis and processing of facial representations and prototypes [1P2M064]

15:00 Coline Jeantet, Vincent Laprevote, Raymund Schwan, Joëlle Ligezziolo-Aïnot and Stéphanie Caharel
Influence of spatial frequencies on early stages of face processing: an event-related potentials study [1P2M066]

15:00 Chun-Man Chen and Sarina Hui-Lin Chien
An encoding advantage for own-race faces in Taiwanese participants: A morphing face study [1P2M068]

15:00 Annabelle Redfern and Christopher Benton
Help or hindrance: do facial expressions facilitate identification? [1P2M070]

15:00 Friederike G S Zimmermann, Aliette Lochy, Renaud Laguesse, Verena Willenbockel, Bruno Rossion and Quoc C Vuong
Facelikeness mediates individual-level discrimination for novel objects: Evidence from extensive training [1P2M072]

15:00 Yoshie Kiritani, Yurina Komuro, Akane Okazaki, Runiko Takano and Noriko Okubo
Color induction in the face using eyeshadows of desaturated colors [1P2M074]

15:00 Louise Neil, Giulia Cappagli, Themis Karaninis, Rob Jenkins and Elizabeth Pellicano
Recognising the same face in different contexts: Testing within-person face recognition in typical development and in autism [1P2M076]

15:00 Frances Wilkinson, Alexandra Harrington, Linda Lillikas, Eleni Kelly, Jong-Jin Kim, Natalie Slavat and Yousra Haque
Cues to Gender in Children’s Faces [1P2M078]

15:00 Guillaume Rousselet, Hannah Gilman, Robin Ince and Philippe Schyns
The face N170 is mostly sensitive to pixels in the contralateral eye area [1P2M080]

15:00 Kristin Koller, Christopher Hatton and Robert Rafal
Unmasking backward masking of emotional faces [1P2M082]

15:00 Harald R. Bliem
Further experimental investigations into perception and recognition of two-colour pictures of faces at isoluminance [1P2M084]

15:00 Fraser Smith and Stephanie Rossit
Detection and Recognition of Emotional Facial Expressions in Peripheral Vision [1P2M086]
Varying curvature and angularity of architectural façades can influence aesthetic preferences [1P2M118]

Uncomfortable images prevent lateral interactions in the cortex from providing a sparse code [1P2M122]

Pupil size is a sensitive indicator of motivation-driven modulation of arousal in the macaque in a visual discrimination task [1P2M114]

Developing perceptual scales to measure properties of aesthetic attributes [1P2M116]

Varying curvature and angularity of architectural façades can influence aesthetic preferences [1P2M118]

The attentional capture by emotional distractor faces differed between adult’s and children’s facial expression. [1P2M126]

The D-Scope®: Beyond Veridicality [1P2M128]

Starting fluency? Testing effects of processing fluency on affect-modulated startle [1P2M130]

Predicting perceived visual complexity using objective image properties and eye-movement measurements [1P2M132]

Represenational Space of Cave Paintings and Petroglyphs [1P2M134]

The effect of repeated exposure of abstract visual patterns on aesthetic preference in children and adults [1P2M136]

The influence of teeth-exposure on attentional bias to angry faces in the dot-probe task [1P2M138]

15:00 Mladen Sormaz, William Smith, Timothy J. Andrews and Andrew W. Young

Contributions of feature shape and surface cues to facial expression perception [1P2M088]

15:00 Koyo Nakamura and Hideaki Kawabata

Preconscious processing of facial attractiveness under continuous flash suppression [1P2M090]

15:00 Ellen Poljakoff, Olivia Carefoot, Peter Kyberd and Emma Gwen

Investigating the relationship between human-likeness and eeriness for prosthetic hands [1P2M092]

15:00 Tatjana Mentus and Slobodan Markovic

Testing the effects of the familiarity and symmetry in facial attractiveness [1P2M094]

15:00 Takahiro Kinta

Angry faces do not have privileged access to awareness: Evidence from the attentional blink paradigm [1P2M096]

15:00 Emily E. Butler, Christopher W. N. Saville, Robert Ward and Richard Ramsey

Staring nervous system stability in the face: reaction time variability predicts attractiveness. [1P2M098]

15:00 Rui Liu, Wen Zhou and Yi Jiang

Compressed subjective duration of social interactions mediated by oxytocin [1P2M100]

15:00 Simone Deibel, Fabian Gebauer and Claus-Christian Carbon

Investigating visual stimuli processing under mortality salience on a microgenetic level [1P2M102]

15:00 Yue Yue

Threatening stimuli do not narrow attentional scope [1P2M104]

15:00 Richard Jacobs, Yağmur Güçlütürk and Rob van Lier

What you need is what you like - knowing target and distractor categories is sufficient for distractor devaluation [1P2M106]

15:00 Christel Devue, Laura Kranz, David Carmel, Rosie Moody and Gina Grimshaw

Attentional control of positive and negative visual emotional distraction [1P2M108]

15:00 Enric Munar Roca, Gerardo Gómez-Puerto, Marcos Nadal and Josep Call

Do Great Apes also Prefer Curved Visual Objects? [1P2M110]

15:00 Paul Knox, Giulia Rampone and Marco Bertamini

Oculomotor inhibition and the preference rating of abstract visual patterns [1P2M112]

15:00 Katsuhisa Kawaguchi, Stéphane Clery, Pania Pourmahi and Hendriek Nielenborg

Pupil size is a sensitive indicator of motivation-driven modulation of arousal in the macaque in a visual discrimination task [1P2M114]

15:00 Johannes M Zanker, Tim Holmes and Jasmina Stevanov

Developing perceptual scales to measure properties of aesthetic attributes [1P2M116]

15:00 Nicole Ruta, Stefano Mastandrea, Stefania Lamaddalena and Giuseppe Bove

Varying curvature and angularity of architectural façades can influence aesthetic preferences [1P2M118]

15:00 Marius Hans Raab, Stefan A. Ortlieb, Fabian Gebauer, Jennifer Ettner and Claus-Christian Carbon

Vita brevis, kitsch longae—When death was salient, kitsch appears less kitschy [1P2M120]

15:00 Olivier Penacchio, Xavier Otazu, Arnold Wilkins and Julie Harris

Uncomfortable images prevent lateral interactions in the cortex from providing a sparse code [1P2M122]

15:00 Galina Parmel, Anna Kepichnikova, Stewart Blakeway, Andrew Foulkes and Philippe Chassy

Computational analysis of visual complexity and aesthetic appraisal reflected in eye-tracking data [1P2M124]

15:00 Eriko Matsumoto

The attentional capture by emotional distractor faces differed between adult’s and children’s facial expression. [1P2M126]

15:00 Carol Macgillivray

The role of alpha oscillations in the Attentional Blink [1T3A005]

15:00 Sabine Albrecht, Alexander Pastukhov and Claus-Christian Carbon

Starting fluency? Testing effects of processing fluency on affect-modulated startle [1P2M130]

15:00 Andreas Garcus, Jadwigs Takacs and Helmut Leder

Predicting perceived visual complexity using objective image properties and eye-movement measurements [1P2M132]

15:00 Timothy L. Hubbard and Susan E. Ruppel

Representational Space of Cave Paintings and Petroglyphs [1P2M134]

15:00 Dragan Jankovic

The effect of repeated exposure of abstract visual patterns on aesthetic preference in children and adults [1P2M136]

15:00 Benedikt Emanuel Wirth and Dirk Wentura

The influence of teeth-exposure on attentional bias to angry faces in the dot-probe task [1P2M138]
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<tr>
<td>17:45</td>
<td>Differential brain activity in overt and covert attention shifts: Evidence from co-registered eye-tracking and EEG</td>
<td>Louisa Kulke, Janette Atkinson and Oliver Braddick</td>
<td>[1T3A007]</td>
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</table>
| 16:00-17:45 | Session 8B: The changing visual system: development and ageing | CHAIR: Warren Donnellan \nLOCATION: B \n
16:00  | Albulena Shaqiri, Karin Pilz, Aaron Clarke, Herzig Daniela, Marina Kunchulia and Michael H Herzog | Aging and Perception [1T3B001]                                                            |
16:15  | Louise Ewing, Annette Karmiloff-Smith, Emily Farran and Marie Smith | Tracking developmental shifts in facial expression processing strategies [1T3B002]                |
16:30  | Sarina Hui-Lin Chien and Chu-Lik Tai                               | Development of the other-race effect in school-age Taiwanese children: Using a morphing face paradigm [1T3B003] |
16:45  | Carlo Lai, Daniela Altavilla, Marianna Mazza, Renata Tambelli, Michela D’Argenzio, Angela Guadagno, Debora Giusti, Paola Aceto and Marco Cecchini | Neural correlates of face recognition in the first hours of life [1T3B004]                         |
16:00-17:45 | Session 8C: Lightness and brightness | CHAIR: Suncica Zdravkovic \nLOCATION: C \n
16:00  | Peter Vangorp, Karol Myszkowski, Erich Graf and Rafal Mantluk       | An Empirical Model for Local Luminance Adaptation in the Fovea [1T3C001]                   |
16:15  | Michael Rudd                                                       | Cortical model of object-centered lightness computation explains contrast and assimilation in a luminance gradient illusion [1T3C002] |
16:30  | Suncica Zdravkovic and Frouke Hemens                              | Illumination layout of the scene influences visual sampling [1T3C003]                     |
16:45  | Romain Bachy and Qasim Zaid                                      | Effects of lateral interactions and adaptation on color and brightness induction [1T3C004]   |
17:00  | Alan Gilchrist                                                     | Luminance and color correlations allow lightness constancy through a veiling luminance without borders [1T3C005] |
17:15  | Mark McCourt and Barbara Blakeslee                               | Coming to Terms with Lightness, Brightness, and Brightness Contrast: It's Still a Problem [1T3C006] |
17:30  | Robert Ennis, Matteo Toscani and Karl Gegenfurtner                | Scotopic lightness perception [1T3C007]                                                    |
18:30-19:30 | Session 9: CRS Lecture                                              | CRS Lecture Glyn Humphreys \nLOCATION: A and Video link to B \n
18:30  | Glyn Humphreys and Jie Sui                                        | The integrative self                                                                       |
Abstract:
Self-reference is known to influence a wide variety of cognitive processes - from perception and attention through to memory. Here we present an over-arching account of how at least some forms of self-reference effects come about. We argue that self-reference acts to enhance integration in information processing. We present examples supporting this argument based on the effects of self reference on (i) binding memories to their source, (ii) integrating different parts into whole objects, (iii) switching associations from one stimulus to another, and (iv) integrating different processes (attention and decision making). The results suggest that self-reference provides a form of 'integrative glue' across several levels of processing.
### Session 10A: The ageing visual system in health and disease

**Chair:** Sophie Wuerger  
**Location:** A

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<td>09:00</td>
<td>Katsunori Okajima</td>
<td>Measurements and Simulations of Aging Visual System</td>
<td>[2S1A001]</td>
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<tr>
<td>09:20</td>
<td>Zoe Kourtzi</td>
<td>Learning for flexible decisions across the lifespan</td>
<td>[2S1A002]</td>
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<td>09:40</td>
<td>Mark Greenlee, Katharina Rosengarth and Tina Plank</td>
<td>Neural plasticity in the cortical patients of eyes with macular degeneration following perceptual learning</td>
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<td>10:00</td>
<td>Frans W Cornelissen</td>
<td>Stability and plasticity of the visual system following age-related vision loss</td>
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<td>10:20</td>
<td>Ian Grierson</td>
<td>Eye Movements and Reading Speed in Macular Disease: Influence of Fixation Clusters</td>
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### Session 10B: The concept of fluency: Current streams, active models, new challenges, general limitations

**Chair:** Claus-Christian Carbon  
**Location:** B

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<td>09:00</td>
<td>Claus-Christian Carbon</td>
<td>The concept of fluency: Current streams, active models, new challenges, general limitations</td>
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<td>Piotr Winkeliman</td>
<td>Flipping Fluency: On the fascinating flexibility of fluency phenomena</td>
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<td>Thorsten Michael Erle, Rolf Reber and Sascha Topolinski</td>
<td>Necker’s Smile: Immediate Affective Consequences of Early Perceptual Processes</td>
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<td>10:00</td>
<td>Sabine Albrecht and Claus-Christian Carbon</td>
<td>The Fluency Amplification Model [FAM]</td>
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<td>Slobodan Markovic</td>
<td>Factors of experience of beauty and aesthetic fascination: pleasure, interestingness, harmony and clarity</td>
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<td>10:40</td>
<td>Stefan Mayer and Jan R. Landwehr</td>
<td>The Measurement of Visual Antecedents of Processing Fluency and Aesthetic Liking</td>
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### Session 10C: Frequency tagging neural dynamics of visual perception in the human brain

**Chair:** Matthias M Müller  
**Location:** C

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<td>Bruno Rossion</td>
<td>EEG frequency-tagging of natural face images</td>
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<td>09:48</td>
<td>Greg Appelbaum</td>
<td>Using EEG-frequency tagging to understand visual scene perception</td>
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<td>10:12</td>
<td>Christian Keitel and Matthias M Müller</td>
<td>Audio-visual synchrony and selective attention co-amplify early visual processing</td>
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<td>10:36</td>
<td>Andreas Keil</td>
<td>Threat versus Safety in Human Visual Cortex: How Affective Experience Impacts Perception</td>
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**11:00-12:00 Session 11**  
Visual Attention / Colour, Lighting & Surfaces / The Oculomotor System

**Location:** Mountford Hall

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<td>11:00</td>
<td>Nithin George and Meera Sunny</td>
<td>Role of prediction error in selective attention</td>
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<td>11:00</td>
<td>Kana Watanabe, Tsukasa Watanabe, Saori Aida, Jun Kayano and Koichi Shimono</td>
<td>The effect of dual-task and body pitch on visual attention while viewing a video depicting ship navigation</td>
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<td>11:00</td>
<td>Vitaly Babenko, Pavel Ermakov and Denis Yavna</td>
<td>Competition for attention and spatial frequencies</td>
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<td>11:00</td>
<td>Merle-Marie Ahrens, Domenica Veniero, Monika Harvey and Gregor Thul</td>
<td>Spatial extrapolation versus temporal entrainment of reflexive attention by apparent motion stimuli are governed by separate mechanisms</td>
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<td>11:00</td>
<td>Orit Baruch and Liat Goldfarb</td>
<td>Attentional modulation of visual acuity has the shape of a Mexican Hat: implications to a bottom-up process</td>
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<td>Frouke Hermens, Markus Bindemann and A. Mike Burton</td>
<td>Responding to social and symbolic extrafoveal cues: Cue shape trumps social status</td>
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<td>11:00</td>
<td>Michael Jenkins, Anna Grubert and Martin Eimer</td>
<td>Rapid and Parallel Allocation of Attention to Categories</td>
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11:00  W. Joseph MacInnes and Hannah Marie Krüger  The timing, but not the time, of IOR [2P1M015]
11:00  Manje Brinkhuis, Arni Kristjánsson and Jan W Brascamp  Priming of visual search and priming of bistable perception: Do they rely on shared mechanisms? [2P1M017]
11:00  Meera Sunny, Jaison Manjaly and Neeraj Kumar  Attention capture as a function of prediction error [2P1M019]
11:00  Brian Sullivan, Harm Brouwer and Pia Knoeferle  Visual attention during linguistic-visual conflicts [2P1M021]
11:00  José P. Ossandón, Tim C. Kietzmann, Silja Timm and Peter König  A Direct Electrophysiological Demonstration of Object Based Sensory Processing [2P1M023]
11:00  Michal Wierzchon, Marta Siedlecka and Borysław Paulewicz  Perceptual identification influences visibility ratings [2P1M025]
11:00  Rebecca Nako, Anna Grubert and Martin Eimer  Is category a feature? Parallel guidance of attention by object features and categories [2P1M029]
11:00  Brit Anderson  Attention Does and Does Not Alter Contrast Appearance [2P1M031]
11:00  Satoko Ohtsuka and Reishi Kogure  Interference mechanisms revealed by the temporal characteristics: Stroop and Simon effects study [2P1M033]
11:00  Helen C. Knight, Daniel T. Smith and Amanda Ellison  The Role of the Left Dorsolateral Prefrontal Cortex in Attentional Bias; a tDCS Study [2P1M035]
11:00  Jan Drewes, Evelyn Muschler, Weina Zhu and David Melcher  Detection of brief visual events: an MEG study [2P1M037]
11:00  Susann Szukalski, Sabrina Walter and Matthias M. Müller  Attentional modulation of steady-state visual evoked potentials (SSVEPs) in human visual cortex (HVC) scales according to the stimulus rank when attending to colors [2P1M039]
11:00  Mika Koivisto and Simone Grassini  Subjective visual awareness correlates with neural activity around 200 ms [2P1M041]
11:00  Alena Kulikova and Joseph MacInnes  The early bird doesn’t get the ANT [2P1M043]
11:00  Karol Wereszczyński, Marus Usher and Andrew Parton  Influence of alpha frequency photic driving on visual detection thresholds [2P1M045]
11:00  Mike Long, Gary Burnett, Robert Hardy and Harriet Allen  Full windscreen Head-up Displays; the effects of dual-task processing and image contrast [2P1M047]
11:00  Laura Bartlett, Wendy Adams and Enich Graf  The effect of attention on the motion aftereffect. [2P1M049]
11:00  Chen Yen-Wen, Yung-Hao Yang and Su-Ling Yeh  Unconscious semantic processing under continuous flash suppression [2P1M051]
11:00  Endel Poder  Local and global limitations in visual search [2P1M053]
11:00  Igor Utochkin, W. Joseph MacInnes and Yulia Stakina  The dead zone of attention has no link to eye movements [2P1M055]
11:00  Claus-Christian Carbon and Vera M Hesslinger  Testing several hypotheses for dissociate colour perception on #TheDress [2P1M057]
11:00  Diana Su Yun Tham, Paul Sowden, Alexandra Grandison, Anna Franklin, Anna Lee and Michelle Ng  A systematic investigation of colour and concept associations [2P1M059]
11:00  David Rose  If That Dress isn’t really blue and black, then does it even exist? [2P1M061]
11:00  John Maule, Elizabeth Pellicano and Anna Franklin  Colour perception and cognition in adults with autism spectrum disorders [2P1M063]
11:00  Tushar Chauhan, Kaida Xiao and Sophie Wuerger  Colour discrimination thresholds for calibrated skin images [2P1M065]
11:00  Stacey Aston, James Groombridge, Bradley Pearce and Anya Hurlbert  Thresholds for colour constancy measured via illumination discrimination depend on adaptation point [2P1M067]
11:00  Patricia Dore, Ardian Duman and Alex Shepherd  Colour discrimination, coloured backgrounds and global and local shape perception [2P1M069]
11:00  Kaida Xiao, Julian Yates and Sophie Wuerger  Skin colour appearance as a function of ethnicity [2P1M071]
11:00  Rossana Actis-Grosso and Daniele Zavagno  The effect of coloured environment on the perception of different objects [2P1M073]
11:00  Sabine Raphael, J. D. Molton and Gabriele Jordan  Colour Matching functions in women heterozygous for anomalous trichromacy [2P1M075]
11:00  Sophie Wuerger, Anya Hurlbert and Christoph Witzel  Variation of subjective white-points along the daylight axis and the colour of the dress [2P1M077]
11:00  Kenneth Brecher  The Dichopter [2P1M079]
11:00  Lingyun Huang, Xuelian Zang, Thomas Geyer, Hermann Müller and Zhuanghua Shi  Influences of display contrast on contextual cueing [2P1M081]
11:00  Alessandro Benedetto, David Burr, Donatella Spinelli and Maria Coricetta Morrone  Rhythmic modulation of human visual sensitivity depends on luminance [2P1M083]
11:00  Rumi Tokunaga, Hirotaka Urabe and Hiroyuki Shinoda  The perception of shadows and the apparent brightness in the space [2P1M085]
11:00  Zahide Pamir and Hüseyin Boyacı  The Effect of Context-dependent Brightness on Contrast Perception [2P1M087]
11:00 Shogo Yamada, Yasuhiro Seya and Hiroyuki Shinoda
Brightness perception for a room with a scenic view through the window [2P1M089]

11:00 Fujimoto Yusuke, Hiroyuki Shinoda and Yasuhiro Seya
Degradation of display image due to glare of ambient light evaluated by visibility matching and degradation category rating [2P1M091]

11:00 Greta Vilidaitė, Natasha Gutmanis, Samantha Harris, Rebecca Kitching, Hollie Melton, Roseanna Norman, Christina Scott, Anika Smith, Kirstie Wailes-Newson and Daniel Baker
Estimating inter-observer variability in GABA-ergic suppression [2P1M093]

11:00 Jenny Bosten, Laura Smith and John Mollon
Speed and superimposed chromatic gratings [2P1M095]

11:00 Nick Schlüter and Franz Faul
The role of background distortion for material matches of transparent objects [2P1M097]

11:00 Chia-Ching Wu and Chien-Chung Chen
Background texture size statistics modulates perceived target size nonlinearly [2P1M099]

11:00 Alice C Chadwick, George Cox, Jonathan P Oliver, Hannah E Smithson and Robert W Kentridge
Interactions in the Perceptions of Light Absorption and Scattering [2P1M101]

11:00 Rob Lee and Hannah Smithson
Glossy surfaces enable perceptual separation of gradual changes in lighting and reflectance [2P1M103]

11:00 Junyu Dong, Lina Wang, Jun Liu, Yanhai Gan and Xin Sun
Predicting Fractal Model Parameters in Accordance with Perceptual Descriptions [2P1M105]

11:00 Laszlo Talas, Roland Baddeley, Nicholas Scott-Samuels and Innes Cuthill
Looking through the camouflage's eye: what makes a camouflage pattern Woodland? [2P1M107]

11:00 Joel Martin and Stephen Johnston
Fixation-Aligned Pupillary Response Averaging: How many Targets can you "C"? [2P1M109]

11:00 Felicity Woolhan and Paul Knox
Impulsivity and the Generation of Express Saccades [2P1M111]

11:00 Therese Gilligan, Filipe Cristino, Robert Rafal and Janet Bullitude
The role of ocular proprioception in prism adaptation [2P1M113]

11:00 Barbara Dillenburger and Michael Morgan
Inflight Correction of Saccadic Eye Movements – no time for cortex. [2P1M115]

11:00 Julia Förster and Michael Morgan
Motion induced position shift in perception and eye movements [2P1M117]

11:00 Mario Dalmaso, Luigi Castelli and Giovanni Galfano
Voluntary saccades in the presence of task-irrelevant eye-gaze conveyed by White and Black individuals [2P1M119]

11:00 Omar I. Johansson, Theodora A. Thoroddsen and Ami Kristjansson
The interaction between stimulus properties and saccadic parameters [2P1M121]

11:00 Maria Elena Iannoni, Marco Cecchini, Anna Lucia Pandolfo, Paola Aceto and Carlo Lai
Brain responses to the perception of dyadic gaze interactions: the role of adult attachment [2P1M123]

11:00 Pavel Orlov, Marina Chernishova and Vladimir Ivanov
Model of eye movements that predicts errors in routine tasks [2P1M125]

11:00 Szonya Durant, Tim Holmes and Johannes Zanker
The effect of different types of eye movements on optic flow information during walking [2P1M127]

11:00 Takeshi Kohama, Makoto Nishino and Hisashi Yoshida
A simulation study of the effects of fixation eye movements on retinal responses [2P1M129]

11:00 Junji Ito, Yukako Yaman, Ichiro Fujita, Hiroshi Tamura and Sonja Grün
Distinct Scan Modes in Monkey's Free Viewing of Natural Images and Related Neuronal Activities [2P1M131]

13:30-15:00 Session 12A: Motion
CHAIR: George Mather
LOCATION: A

13:30 Luigi Cuturi and Paul MacNeilage
Optic flow induces crossmodal aftereffects in self-motion perception [2T2A001]

13:45 Hanspeter Mallot, Florian Ott, Ladina Pohl, Marc Halfmann and Gregor Hardies
No integration of optic flow and stereoscopic depth in the perception of ego-acceleration [2T2A002]

14:00 Leonid Fedorov and Martin Giese
Influence of shading on biological motion perception: illusion and model [2T2A003]

14:15 Hugh R. Wilson and Jeffrey Fung
Effect of motion discontinuities on discrimination of periodic trajectories [2T2A004]

14:30 Ying Wang, Xue Zhang, Dong Liu, Qian Xu and Yi Jiang
Prolonged microgravity alters the perceptual and neural responses to visual gravitational motion cues [2T2A005]

14:45 Eli Brenner, Inés Abalo, Victor Estal and Jeroen B.J. Smeets
Practice rather than observation allows us to quickly learn to cope with acceleration when intercepting moving objects [2T2A006]

13:30-15:00 Session 12B: Perceptual organisation, objects and shapes
CHAIR: Heiko Hecht
LOCATION: B

13:30 John D. Wilder, Ingo Fründ and James H. Elder
Frequency tuning of shape discrimination revealed by classification image analysis. [2T2B001]

13:45 Nicole Jardine and Cathleen Moore
Are saccades sensitive to the perceptual organization of surface structure? [2T2B002]

14:00 Edward Vul and Timothy Lew
How visual working memory exploits environmental structure. [2T2B003]
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<thead>
<tr>
<th>Time</th>
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<th>Location: C</th>
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<tr>
<td>14:15</td>
<td>Christoph Teufel, Steven Dakin and Paul Fletcher</td>
<td>Object Knowledge Shapes Properties of Early Feature-Detectors by Top-Down Modulation</td>
<td>Mountford Hall</td>
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<td>14:30</td>
<td>Gregor Volberg and Mark W. Greenlee</td>
<td>Brain networks for visual perceptual groupings</td>
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<td>14:45</td>
<td>Rüdiger von der Heydt and Anne B Martin</td>
<td>Spike synchrony reveals emergence of proto-objects in visual cortex</td>
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<td>13:30-15:00</td>
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<td>Session 12C: Peripheral vision, binocular vision and crowding</td>
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<td>13:30</td>
<td>Yaffa Yeshurun, Shira Tkacz-Domb and Einat Rashal</td>
<td>Temporal crowding and the effects of spatial attention</td>
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<td>13:45</td>
<td>Erik Van der Burg, Christian N.L. Olivers and John Cass</td>
<td>Evolving the keys to visual crowding</td>
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<td>14:00</td>
<td>Josephine Reuther and Ramakrishna Chakravarthi</td>
<td>Higher-level effects in crowding falter when low-level attributes are controlled for</td>
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<td>14:15</td>
<td>Daniel Coates, Johan Wagemans and Bilge Sayim</td>
<td>Portraying the periphery: studying peripheral vision with drawing tasks</td>
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<td>14:30</td>
<td>John A. Greenwood, Xuan K. Lee, Yishi Liu and Samuel G. Solomon</td>
<td>Task-specific population coding determines the perception of position</td>
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<td>14:45</td>
<td>Keith May and Li Zhaoping</td>
<td>Tilt aftereffect generated by isotropic adaptation stimuli: A counterintuitive prediction of Li and Atick’s efficient binocular coding theory</td>
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<td>15:00-16:00</td>
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<td>Session 13: Visual Attention / Colour, Lighting &amp; Surfaces / The Oculomotor System</td>
<td>Mountford Hall</td>
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<td>15:00</td>
<td>Simily Sabu, Meera Sunny and Neeraj Kumar</td>
<td>Attentional Blink is modulated by Response Selection at T1</td>
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<td>15:00</td>
<td>Sören K Andersen, Roy Allen and Jennifer Mattschei</td>
<td>Are some targets tracked more than others? Investigating the role of multifocal attention in Multiple Identity</td>
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<td>15:00</td>
<td>Daniel Smith, Robert Swalwell and Thomas Schenk</td>
<td>A neuropsychological dissociation between attentional facilitation and inhibition of objects</td>
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<td>15:00</td>
<td>Manuel Rausch and Michael Zehetleitner</td>
<td>What to consider with subjective measures of conscious awareness</td>
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<td>15:00</td>
<td>Arnir Kristjansson and Lilja Jonsdotter</td>
<td>Priming of visual search reflects facilitated attention shifts: Evidence from object substitution versus metacortex masking</td>
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<td>15:00</td>
<td>Robert Swalwell and Daniel Smith</td>
<td>Is the object or location inhibited when IOR is found in faces? Evidence from a dynamic visual orienting task.</td>
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<td>15:00</td>
<td>Karina Linnell and Serge Caparos</td>
<td>The attentional blink predicts divided attention, selective attention, and alertness</td>
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<td>15:00</td>
<td>Lauri Oksama, Lauri Nummenmaa and Jukka Hyönä</td>
<td>Neural circuits for dynamic tracking of object identity and location</td>
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<td>15:00</td>
<td>Andrea Friellink-Loing, Arno Koning and Rob van Lier</td>
<td>Anisotropic versus isotropic distribution of attention in object tracking: disentangling influences of overt and covert attention</td>
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<td>15:00</td>
<td>Zeeshan Syed, James S. P. Macdonald and Karina J. Linnell</td>
<td>Pupillometric vs. EEG measures of Attentional State: A Timeseries Comparison</td>
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<td>15:00</td>
<td>Bettina Rolke, Verena C. Seibold and Robert Langner</td>
<td>Temporal attention modulates target selection among distractors: Evidence from a flanker compatibility task</td>
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<td>15:00</td>
<td>Daniel B. Dodgeon and Jane E. Raymond</td>
<td>Value Associations Enhance Preparatory Top-Down Attentional Control and Attentional Suppression</td>
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<td>15:00</td>
<td>Zorana Zupan, Derrick Watson and Elisabeth Blagrove</td>
<td>Visual marking: Time-based visual selection with illusory stimuli</td>
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<td>Tomoya Kawashima and Eriko Matsumoto</td>
<td>Effects of probability instruction on attention and maintenance of working memory representations in visual search</td>
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<td>15:00</td>
<td>Takahiro Shinkai, Tetsuo Minami and Shigeki Nakauchi</td>
<td>Influence of crossing hemisfields in Multiple Object Tracking</td>
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<td>15:00</td>
<td>Massimiliano Papera and Anne Richards</td>
<td>Processing capacity limits in the early stages of visual processing are associated with neglect of unexpected visual stimuli</td>
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<td>15:00</td>
<td>Masamitsu Harasawa, Moe Nagahata and Hiroshi Ishikane</td>
<td>Expecting higher attentional load affected orienting ‘what’ and ‘where’ visual attention: a bimodal brain imaging study with fNIRS and EEG</td>
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<td>15:00</td>
<td>Weina Zhu, Jan Drewes and David Melcher</td>
<td>Time for awareness: mask temporal frequency determines continuous flash suppression effectiveness</td>
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<td>15:00</td>
<td>Laura Dugué, Mariel Roberts and Marisa Carrasco</td>
<td>Occipital TMS modulates the effect of attention on contrast sensitivity</td>
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15:00  Jane Jacob, Christianne Jacobs, Bruno Breitmeyer and Juha Silvanto
Role of Attention in the Temporal Dynamics of Post-Iconic Visual Memory Stores [2P2M040]

15:00  Shih-Yu Lo, Patrick Goodbourn and Alex Holcombe
Can we select multiple colours simultaneously? Evidence for serial processing from left to right [2P2M042]

15:00  Isabel Dombrowe
The effects of distractor salience on target detection sensitivity [2P2M044]

15:00  Joe Butler, Filipe Cristino, Ayelet Sapir and Giovanni d’Avossa
Effects of voluntary attention and priming target and distractor effects on overt and covert orienting. [2P2M046]

15:00  Neil Harrison and Rob Woodhouse
Crossmodal modulation of auditory attention by visual emotional cues: The role of attentional engagement and disengagement [2P2M048]

15:00  Hisashi Yoshida and Takeshi Kohama
Analysis of pupil response and event-related potential during a fast-paced cognitive and attention task [2P2M050]

15:00  Anna Schubö and Tobias Feldmann-Wüstefeld
Attention deployment in visual contexts of varying homogeneity [2P2M052]

15:00  Luke Tudge and Torsten Schubert
Salience from multiple feature contrast: Evidence from saccade trajectories [2P2M054]

15:00  Arash Akbarinia and C. Alejandro Parraga
Biologically plausible colour naming model [2P2M056]

15:00  Nicola Bruno, Gioacchino Garofalo and Vera Ferrari
Red affects reaction times and hit rates in a 2AFC orientation discrimination task [2P2M058]

15:00  Akiyoshi Kitaoka
Colour categories are reflected in sensory stages of colour perception when stimulus issues are resolved [2P2M062]

15:00  Shino Okuda and Katsunori Okajima
Temporal variation of chromatic response during color adaptation [2P2M064]

15:00  Mandy V. Bartsch, Sarah E. Donohue, Mircea A. Schoenfeld and Jens-Max Hopf
Separating explicit and implicit biasing mechanisms of global color-based selection in human visual cortex [2P2M066]

15:00  Naoki Kurita, Hiroyuki Shinoda and Yasuhiro Seya
Color management system for identical color appearance across different illuminations [2P2M068]

15:00  Christoph Witzel and Kevin O’Regan
The most reasonable explanation of the dress: Implicit assumptions about illumination [2P2M070]

15:00  Ivana Jakovljev and Suncica Zdravkovic
Verbal vs. visual coding in the simultaneous color discrimination task [2P2M072]

15:00  Givago Souza, Raílson Salomão, Diego Guimarães, Barbara Risuenho, Isabelle Christine Martins and Luiz Carlos Silveira
Comparison of visual evoked cortical potential generated by chromatic gratings and pseudoisochromatic stimuli [2P2M074]

15:00  Anya Hurlbert, Stacey Aston, Pearce Bradley and May Noonan
“The dress” phenomenon: peculiar to the photograph, or present for the real dress? [2P2M076]

15:00  Thiago Costa, Dora Ventura, Paulo Sérgio Boggio, Luiz Carlos Silveira and Givago Souza
Differences between alpha, beta and gamma oscillations in the processing of chromatic and achromatic gratings, [2P2M078]

15:00  Malgorzata Perz, Dragan Sekulovski and Ingrid Vogels
Modeling visibility of periodic and aperiodic flicker [2P2M080]

15:00  Antonio Schettino, Andreas Kell, Emanuele Porcu and Matthias Müller
Neuronal Chronometry of Emotional Attention: Early Interactive Effects of Brightness and Emotion. [2P2M082]

15:00  Stephanie L. Acaster, Alessandro Soranzo, John Reidy and Naira A. Taroyan
The effects of depth separation on lightness contrast and lightness assimilation [2P2M084]

15:00  Kazim Hilmi Or
The eye physiology: Why don’t we have glare from all light sources in our visual field? [2P2M086]

15:00  Pearce Bradley, Stacey Aston, Gabriele Jordan and Anya Hurlbert
Peripheral brightness perception is influenced by cone-silent modulations [2P2M088]

15:00  Yuta Suzuki, Takahiro Shinkai, Tetsuto Minami and Shigeki Nakauchi
Investigation of brightness perception with glare illusion by SSVEP [2P2M090]

15:00  David Kane and Marcelo Bertalmio
Dynamic range, light scatter in the eye and perceived image quality [2P2M092]

15:00  Marcelo Costa and Adsson Magalhães
Power Law of Brightness on Different Edge Filtering [2P2M094]

15:00  Jan Jaap R. van Assen and Roland W. Fleming
Effects of optical appearance on the perception of liquids [2P2M096]

15:00  Charlotte Falkenberg and Franz Faul
The effect of background and presentation mode on transparent layer constancy [2P2M098]

15:00  Alison Chambers and Neil Roach
Flexible spatial frequency tuning indicates multiple mechanisms of surround suppression [2P2M100]

15:00  Sae Kaneko and Stuart Anstis
Spatial frequency shifts from flicker and from simultaneous contrast [2P2M102]

15:00  Jun Liu, Yaxin Shi, Junyu Dong and Lin Qi
Understanding Relationships between Perceptual Texture Features [2P2M104]
15:00 Abbas Khani, Faiz Mustafar and Gregor Rainer
Polarity based temporal contrast sensitivity functions in human subjects and tree shrews (Tupaia belangeri) [2P2M106]

15:00 Ekaterina A. Gordienko and W. Joseph MaclInnes
Saccadic Suppression of Displacement for Moving Targets [2P2M108]

15:00 Michele Furlan, Andrew T. Smith and Robin Walker
A functional MRI study of the contralateral mapping of activity associated with saccade preparation and execution in the human superior colliculus. [2P2M110]

15:00 Mai Helmy, Pelcicy Wolohan and Paul Knox
How common are “express saccade makers”? Moving beyond Europe and simple East/West comparisons. [2P2M112]

15:00 Nuno De Sá Teixeira
Disentangling the effect of eye movements on representational momentum and representational gravity: a Fourier decomposition approach [2P2M114]

15:00 Yusuke Sato, Shuko Torii and Masaharu Sasaki
Gaze shifting patterns in gymnasts during a jump with full turn [2P2M116]

15:00 Margit Höller, Iain Gilchrist, Anja Ischebeck and Christof Körner
Does visuo-spatial short-term memory load interfere with Inhibition of Saccadic Return? [2P2M118]

15:00 Timothy N. Volonakis, Innes C. Cuthill, Nicholas E. Scott-Samuel and Roland J. Baddeley
How does the eye movement system represent visual texture? [2P2M120]

15:00 Anna Izmalkova and Irina Blinnikova
Eye movement correlates of cognitive strategies in foreign language vocabulary learning [2P2M122]

15:00 Wolf Harmening, Kavitha Ratnam, Austin Roorda and Niklas Domdei
Limits of spatial vision in the presence and absence of fixational eye movements [2P2M124]

15:00 Arthur Portron and Jean Lorenzoceau
Effect of mask characteristics on pursuit eye movement during target disappearance [2P2M126]

15:00 Yannik T. H. Schelske and Tandra Ghose
Can Eye Movement Features for User Identification Also Be Used for Grouping Cue Classification? [2P2M128]

15:00 Doris Braun, Alexander Schuetz and Karl Gegenfurtner
Visual sensitivity during smooth pursuit and saccadic eye movements [2P2M130]

15:00 Vasco M. N. de Almeida, Jorge L. A. Santos, João M.M. Linhares and Sérgio M.C. Nascimento
Predicting hue scaling for abnormal color vision with perceptual models of color deficient vision [2P2M132]

15:00 Sérgio M.C. Nascimento, João M.M. Linhares, Catarina A. R. João, Kinjiro Amano, Cristina Montagner, Maria J. Melo, Márcia Vilarioges, Maria Helena de Freitas, Catarina Alfaro and Ana Bailão
The preferred chromatic composition of unfamiliar paintings is similar to original [2P2M134]

16:00-17:45 Session 14A: Perception and action
CHAIR: Nicola Bruno
LOCATION: A

16:00 Elizabeth Lewis, Ellen Poliakoff, Luke Jones and Emma Gowen
The rubber hand illusion: long term effects and interoceptive training [2T3A001]

16:15 Elizabeth Collier and Rebecca Lawson
The role of action capacity in perceiving affordances and spatial properties [2T3A002]

16:30 Alasdair I. Ross, Thomas Schenk, Mary J. Macleod and Constanze Hesse
Residual visual processing in hemianopia: The role of conscious vision in obstacle avoidance [2T3A003]

16:45 Joan Lopez-Mollner
Do we use temporal errors in interceptive timing? [2T3A004]

17:00 Thomas Schmidt, Valerie Hauch and Filipp Schmidt
Mask-triggered thrust reversal in the Negative Compatibility Effect [2T3A005]

17:15 Diana Tonin, Ethan Knights and Stephanie Rossil
Does experience shape the lower visual field advantage for action? [2T3A006]

17:30 Vivian C. Paulun, Gavin Buckingham, Karl R. Gegenfurtner, Roland W. Fleming and Melvyn A. Goodale
Inversion of the Material-Weight Illusion in objects made of two materials [2T3A007]

16:00-17:45 Session 14B: Clinical vision
CHAIR: Paul Knox
LOCATION: B

16:00 Kevin Brooks, Ian Stephen, Alexa Murley, Jonathan Mond and Dick Stevenson
Representation of Body Size for Self and Other: simple-, cross- and contingent adaptation [2T3B001]

16:15 Sara Pinocchietti, Giulia Cappagl and Monica Gori
Audio-motor recalibration in blind [2T3B002]

16:30 Veith Weinhammer, Riley Seymour and Philipp Sterzer
Contextual Modulation of Effective Connectivity in Primary Visual Cortex in Schizophrenia [2T3B003]

16:45 Matthew Cranwell, Deborah Riby, Ann Le Coutur, Bradley Pearce and Anya Hurlbert
“Lush” or “slime”? Atypical colour naming in Williams Syndrome [2T3B004]

17:00 Daniel Baker, Anika Smith and Alex Wade
Increasing cortical GABA levels through dietary intervention [2T3B005]

17:15 Paula Regener, Scott Love, Karin Petriti and Frank Pollick
Audiovisual temporal perception differences in autism spectrum disorder revealed by a model-based analysis [2T3B006]

17:30 Lynne Kiorpes, Angela Vorley, Corey Zemba and J. Anthony Movshon
Perceptual and neural deficits in amblyopic sensitivity to naturalistic image structure [2T3B007]

16:00-18:00 Session 14C: Gestalts, grouping and illusions
CHAIR: Dejan Todorovic
LOCATION: C

16:00  Heiko Hecht, S. Oliver Daum, Bernhard Both and Marco Bertamini
       The vista paradox [2T3C001]

16:15  Marc M. Lauffs, Haluk Ogmen and Michael H. Herzog
       Non-retinotopic motion: Efference copies and Predictability [2T3C002]

16:30  Michael Morgan
       Cross-Orientational Inhibition between real and virtual lines [2T3C003]

16:45  Dejan Todorovic and Ljubica Jovanovic
       Size and distance as determinants of the Ebbinghaus illusion [2T3C004]

17:00  Aleksandra Zharikova, Sergei Gepshtein and Cees van Leeuwen
       Limits of perceptual organization in dynamic displays [2T3C005]

17:15  Ruth Kimchi, Yaffa Yeshurun and Branka Spehar
       Perceptual Organization and Visual Attention: Attentional Capture by Objecthood [2T3C006]

17:30  Barbara Nordhem, Constanza Kurman Petrozzi, Nicolas Gravel, Remco Renken and Frans W. Cornelissen
       Fast detection yet slow recognition of emerging images [2T3C007]

8:00-22:00 Illusions Parade
LOCATION: Camp and Furnace
Organizers Letizia Palumbo, Giulia Rampone
Wednesday, August 26th

09:00-11:00 Session 15A: Interactive social perception and action
CHAIR: Stephan de La Rosa
LOCATION: A
09:00 Cristina Becchio
Against the Unobservability Principle [3S1A001]
09:24 Caroline Catmur
Sensorimotor learning influences understanding of others’ actions [3S1A002]
09:48 Guenther Knoblich, Pavel Voinov and Natalie Sebanz
Interpersonal integration of perceptual judgments in joint object location [3S1A003]
10:12 Bert Timmermans, Iva Barisic, Frouke Hermens and Leonhard Schilbach
The influence of dyadic gaze dynamics on joint and individual decisions [3S1A004]
10:36 Rouwen Canal-Bruland and Stephan de La Rosa
From action observation to social interaction: Top-down influences on motor interactions [3S1A005]

09:00-11:00 Session 15B: Brain responses to visual symmetry
CHAIR: Marco Bertamini
LOCATION: B
09:00 Marco Bertamini and Alexis Makin
Brain Activity in Response to Visual Symmetry [3S1B001]
09:15 Ark Verma, Lise Van Der Haegen and Marc Brysbaert
Symmetry Detection in typically and atypically lateralized individuals: A visual half-field study. [3S1B002]
09:30 Silvia Bona, Juha Silvanto and Zaira Cattaneo
The causal role of right lateral occipital (LO) cortex and right occipital face area (OFA) in symmetry detection: evidences from fMRI-guided TMS data [3S1B003]
09:45 Peter A. van der Helm
Symmetry interactions in perceptual organization [3S1B004]
10:00 Annelies Baeck, Johan Wagemans and Hans Op de Beeck
The emergence of symmetry in the distributed response patterns in the ventral visual stream [3S1B005]
10:15 Alexis Makin, Giulia Rampone and Damien Wright
The Holographic model predicts amplitude of the brain’s symmetry response [3S1B006]
10:30 Anthony Norcia and Peter Kohler
Measuring symmetry responses across time and cortical area in the human brain [3S1B007]

09:00-11:00 Session 15C: Clinical visual psychophysics: from bench to bedside and beyond
CHAIR: Paul Knox
LOCATION: C
09:00 John Robson
Contrast Sensitivity [3S1C001]
09:24 Yi-Zhong Wang
Visual Function Self-Testing for Remote Monitoring of Maculopathy [3S1C002]
09:48 David Henson
Visual field testing for the detection and management of glaucoma [3S1C003]
10:12 Pete R. Jones, Sarah Kalwarowsky, Gary S. Rubin and Marko Nardini
Automated static threshold perimetry using a remote eye-tracker [3S1C004]
10:36 Andrew J Logan, Gail E Gordon and Gunter Loffler
The Glasgow Caledonian University Face Test: A New Clinical Test of Face Discrimination [3S1C005]

11:00-12:00 Session 16
Motion, Time, Space & Magnitude / Vision & Motor Control / Wholes and Parts (Illusions, Objects & Grouping)
LOCATION: Mountford Hall
11:00 Hamza Zubair and Meera Sunny
Understanding parity: Is the odd-effect odd or even? [3P1M001]
11:00 Anthony Chaston and John Bailey
Distance and Time Estimation of Outdoor Routes Varying in Complexity and Encroachment [3P1M003]
11:00 Min Li and Massimiliano Di Luca
Temporal predictions in tone sequences [3P1M005]
11:00 Isabel Arend, Sarit Ashkenazi, Kenneth Yuen, Shiran Ofir and Avishai Henik
Number-space association in synaesthesia: An fMRI investigation [3P1M007]
11:00 Adsson Magalhaes, Marcelo Fernandes Costa and Balazs Vince Nagy
Effects upon magnitude estimation of the choices of modulus’ values [3P1M009]
11:00 Martin Bossard, Jean-Claude Lepecq and Daniel R Mestre
Simulated travelled distance in an immersive virtual environment is better estimated when adding biological oscillations to the optical flow. [3P1M011]
11:00 Guido Hesselmann, Philipp Sterzer and Veith Weilnhammer
Perceptual momentum influences bistable perception of the Lissajous figure [3P1M013]
11:00 Tom C Freeman, Maria Cucu and Laura Smith
Estimates of eye velocity are tuned for speed [3P1M015]
11:00 Claire Hutchinson, Tim Ledgeway and Tatenda Kondoni
Spatial integration in dynamic random-dot patterns depicting either first-order or second-order global
11:00  Luca Battaglini and Giorgio Ganis  
Electrophysiological correlates of motion extrapolation [3P1M017]

11:00  Renars Truksa, Evita Kassalerte, Ivars Lacis, Kristine Melke and Anete Krastina  
Psychophysical approbation of an algorithm for coherent motion perception [3P1M021]

11:00  Ignacio Serrano-Pedraza, Sandra Arranz-Paraiso, Verónica Romero-Ferreiro and Jenny Read  
Inter-scale suppression and facilitation in motion-discrimination are unaffected by dichoptic presentation [3P1M023]

11:00  Paul A. Warren and Rebecca A. Champion  
Comparing the effects of contrast on perceived speed for linear and radial gratings [3P1M025]

11:00  Rebecca A. Champion and Paul A. Warren  
Perceived speed of mixed-contrast random-dot kinematograms [3P1M027]

11:00  Elisa Zamboni, Timothy Ledgeway, Paul Mcgraw and Denis Schluppeck  
Late, decision-related biases in reports of visual motion direction [3P1M029]

11:00  Elena Mikulskaya and Frances Martin  
Impaired discrimination of radial motion in early-onset cannabis users [3P1M031]

11:00  Orsola Rosa Salva, Elena Lorenzi, Massimo Grassi, Lucia Regolin and Giorgio Vallortigara  
Elementary motion cues to animacy perception: speed changes elicit social preferences in naive domestic chicks (Gallus gallus domesticus) [3P1M033]

11:00  Andrew Foulkes, Paul Warren and Simon Rushton  
Eccentricity effects in optic flow parsing [3P1M035]

11:00  Maiko Uesaki, Hiromasa Takemura and Hiroshi Ashida  
White-matter pathway connecting sensory cortical regions involved in optic-flow processing [3P1M037]

11:00  Rosa Kugan, Orsola Rosa Salva, Lucia Regolin and Giorgio Vallortigara  
Brain asymmetry influences biological motion perception in newborn chicks (Gallus gallus) [3P1M039]

11:00  Nicholas Ross, Alexander Schütz, Doris Braun and Karl Gegenfurtner  
Predicting curved motion during smooth pursuit and fixation [3P1M041]

11:00  Emanuela Liaci, Rike Wörner, Micheal Bach, Ludger Tebart von Elst and Jürgen Kommeyer  
Ambiguous motion perception in vision and touch [3P1M043]

11:00  Rosannah Cormack, Greg Davis and Kate Pialed-Grant  
Equivalent noise (EN) analysis of motion direction discrimination in adults with Autism Spectrum Disorders (ASD) [3P1M045]

11:00  Matt Dunn and Simon Rushton  
The effect of simulated vision loss on walking paths [3P1M047]

11:00  Tony Thomas and Meera Sunny  
Hand proximity effect: The role of Space, Object and Disengagement [3P1M049]

11:00  Kaisa Tippana, Mikko Tiainen, Lari Vainio, Tarja Peromaa, Naem Komellipoor and Martti Vainio  
Manual grips selectively influence visual, auditory and audiovisual speech categorization [3P1M051]

11:00  Andrew Jessop and Franklin Chang  
Are spatial indexes used to identify thematic roles for language? [3P1M053]

11:00  Manon Krol and Tjeerd Jellema  
The role of mirror neuron mechanisms in the anticipation of others' actions: An EEG study [3P1M055]

11:00  Claire Calmels, Marc Elipot and Lionel Naccache  
Implied Motion Priming and Motor Expertise [3P1M057]

11:00  Constanze Hesse, Louisa Miller and Gavin Buckingham  
Visual memory in reaching and grasping [3P1M059]

11:00  Stephan de La Rosa and Heinrich Büllthoff  
Inversion effects are stronger for subordinate than for basic-level action recognition [3P1M061]

11:00  Francois Quezque, Yvonne Delevoye-Turell and Yarin Coello  
Reading social intention in movement kinematics [3P1M063]

11:00  Chiara Bozzacchi, Robert Vollic and Fulvio Domini  
Depth constancy in grasping is only apparent [3P1M065]

11:00  Alison Wiggett  
Automatic imitation of hand and foot movements is independent of observed body posture [3P1M067]

11:00  Takao Fukui, Yasolchi Nakajima and Makoto Wada  
Use of online vision for reach-to-grasp movements in adolescents with autism spectrum disorders [3P1M069]

11:00  Stephanie Rossit  
Removing binocular cues disrupts the lower visual field advantage for grasping but obeys Weber's law [3P1M071]

11:00  Paolo Bernardis  
The role of task in the interaction between gestures' and words' meaning [3P1M073]

11:00  Simon Watt and Ruth Dickson  
Reaching and grasping with pliers-like tools: a kinematic analysis [3P1M075]

11:00  Laura Fademrecht, Nick E. Barraclough, Isabelle Büllthoff and Stephan de La Rosa  
Seeing actions in the fovea influences subsequent action recognition in the periphery [3P1M077]

11:00  Aoife Mahon, Amelia Hunt and Constanze Hesse  
Attentional allocation to feedback locations in motor movements [3P1M079]

11:00  Martin Giesel, Jenny Bartov and Qasim Zaidi  
Investigating the veridicality of shape from shading for real objects [3P1M081]

11:00  Stephen Jachim, Paul A. Warren and Emma Gowen  
Feedback contribution to collinear facilitation is group dependent [3P1M083]

11:00  Mauro Manassi, Aaron Clarke and Michael H Herzog  
Crowding and Shape Representations [3P1M085]

11:00  Li Jingling and Chia-Huei Tseng  
Effect of local salience on the collinear masking effect [3P1M087]
11:00 Soyogu Matsushita  
Illusory motion in an afterimage formed by gradation patches and the stimulus luminance as the determinant of the motion direction [3P1M089]

11:00 Leili Soo, Søren K. Andersen and Ramakrishna Chakravarthi  
The effects of contrast dissimilarity on crowding, [3P1M091]

11:00 Nobuko Takahashi and Masami Nishigaki  
Sliding motion by different edge contrast [3P1M093]

11:00 Frederic Höming, Michael Müller and Claus-Christian Carbon  
The colorful stranger in the mirror – the strange-face-in-the-mirror illusion revisited [3P1M095]

11:00 Tomoko Imura, Fumito Kawakami, Nobu Shirai and Masaki Tomonaga  
Visual processing of average size by chimpanzees [3P1M097]

11:00 Bilge Sayım and Johan Wagemans  
Perceived junction changes in crowding revealed with a drawing paradigm [3P1M099]

11:00 Elisabeth Hein and Bettina Rolke  
The influence of object history on correspondence in the Ternus display [3P1M101]

11:00 Teluhiko Hilano and Kazuhisa Yanaka  
Vibration to increase or decrease strength of illusory motions [3P1M103]

11:00 Kazuhisa Yanaka  
Color cast hypothesis of color-dependent Fraser-Wilcox optical illusion [3P1M105]

11:00 Ryan Maloney, Gabriel J Vigano and Colin WG Clifford  
Decoding perceived and imperceptible feature conjunctions in human early visual cortex [3P1M107]

11:00 Kai Schreiber and Michael J. Morgan  
An aperture synthesis variant of the Müller-Lyer-Illusion is sensitive to visual reference frame manipulation [3P1M109]

11:00 Carmen Fisher and Irene Sperandio  
The Influence of Familiar Size on Simple Reaction Times. [3P1M111]

11:00 Marta Castellano, Raul Vicente and Gordon Pipa  
GLM-based decoding of contour classification from EEG signals [3P1M113]

11:00 Ken W. S. Tan, J. Edwin Dickinson and David R. Badcock  
Is implied flow necessary for global shape coding in textured contours? [3P1M115]

11:00 Birgitta Dresp-Langley  
Figure and ground from 2D surfaces with ambiguous border ownership [3P1M117]

11:00 Pieter Moors, Johan Wagemans and Mark Vergeer  
Conscious perception of local elements enforces their global integration and vice versa [3P1M119]

11:00 Helen Spray, Karina Linnell, Andrew Bremner, Serge Caparos, Jan de Fockert and Jules Davidoff  
Seeing the forest or seeing the trees: The role of urbanisation in the development of perceptual bias [3P1M121]

11:00 Maris Ozolinsh and Paulis Paulins  
Colour induced enhancement of perception of global versus local movement [3P1M123]

11:00 Olga Vakhrameeva, Alexey Harauzov and Yuri Shelepin  
Unconscious priming effect in visual scene with multiscale objects. [3P1M125]

11:00 Anna Bognár, Péter Csibri, Gergő Csete, Zsigmond Támás Kincses and Gyula Sáry  
The Role of the Magnocellular Visual Pathway in Object Recognition [3P1M127]

11:00 Robin Cao, Jochen Braun, Maurizio Mattia and Alexander Pastukhov  
An Experimentally Constrained Theory For Levelt’s Propositions and The Scalar Property Of Multistable Perception [3P1M129]

11:00 Samuel Lawrence, Bruce Keefe, Richard Vernon, Andre Gouws, Holly Brown, Alex Wade, Declan McKeeffry and Antony Morland  
Characterising shape aftereffects using composite radial frequency patterns [3P1M131]

11:00 Takashi Ueda, Takashi Yasuda and Kenpei Shina  
On the shape properties affecting the detection of tilt [3P1M133]

11:00 Darren Cunningham, Daniel Baker and Jonathan Peirce  
Using the intermodulation term as a measure of selective responses to coherent plaids [3P1M135]

11:00 Katherine Storr and Derek Arnold  
Enhancing the world with the mind: Shape adaptation exaggerates shape differences [3P1M137]

13:30-15:00 Session 17A: Eye movements

CHAIR: Éric Castet  
LOCATION: A

13:30 Johannes Schulz and Sebastian Pannasch  
What can saccadic inhibition reveal about foveal and peripheral information processing within fixations? [3T2A001]

13:45 Alexander Pastukhov, Solveiga Vivian-Griffiths and Jochen Braun  
Transformation priming promotes stable and consistent perception in spite of unstable retinal input [3T2A002]

14:00 Caglar Tas and Andrew Hollingworth  
The role of visual stability in representations of pre- and post-saccadic objects [3T2A003]

14:15 Alasdair Clarke, Aoife Mahon, Alex Irvine and Amelia Hunt  
How aware are we of our own eye movements? [3T2A004]

14:30 Martin Rolfs, Carlos R. Cassanello, Mark Harwood and Thérèse Collins  
Subthreshold post-saccadic errors decelerate oculomotor learning [3T2A005]

14:45 Jean-Baptiste Bernard, Ferran Moscoso Del Prado and Eric Castet  
Predicting oculomotor strategies in reading with normal and damaged visual fields [3T2A006]
### 13:30-15:00 Session 17B: Colour vision: appearance and constancy

**CHAIR:** Takao Sato, Ryohi Nakayama and Anna Nakamura  
**LOCATION:** Mountford Hall

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<th>Time</th>
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<tr>
<td>13:30</td>
<td>Extraretinal factors modulate color after effect. [3T2B001]</td>
<td>Robert Kentridge, Liam Norman, Kathleen Atkins and Charles Heywood</td>
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<td>13:45</td>
<td>Colour constancy without colour experience. [3T2B002]</td>
<td>Frederick Kingdon and Ben Jennings</td>
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<td>14:00</td>
<td>Unmasking the dichoptic mask: Binocularly matched features reduce dichoptic masking for both chromatic and luminance stimuli [3T2B003]</td>
<td>Annette Werner</td>
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<td>14:15</td>
<td>Does colour constancy exist? Yes and No [3T2B004]</td>
<td>Carlijn Van Alphen, Kevin O'Regan, Christoph Godau and Christoph Witzel</td>
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<td>Changes in the lighting or reflectance of isolated glossy surfaces reveal a bias to associate particular colour directions with changes in lighting. [3T2B006]</td>
<td>Hannah Smithson and Rob Lee</td>
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### 13:30-15:00 Session 17C: Magnitude, time, and numerosity

**CHAIR:** Alexis Makin  
**LOCATION:** Mountford Hall

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<tr>
<th>Time</th>
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<td>13:45</td>
<td>An illusion of numerosity explained [3T2C002]</td>
<td>Quan Lei and Adam Reeves</td>
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<td>14:00</td>
<td>Motion-induced compression of perceived numerosity [3T2C003]</td>
<td>Michele Formaciali, Irene Togoli, David C. Burr and Roberto Arrighi</td>
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<td>14:15</td>
<td>Perceived Duration, Task Difficulty and Performance: A General Metric [3T2C004]</td>
<td>Andrei Gorea, Delphine Rider and Lionel Granjon</td>
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<td>14:30</td>
<td>Tempus Fugit: Competitive social interactions impaire time perception [3T2C005]</td>
<td>Ramakrishna Chakravarthi and Diana-Maria Marosi</td>
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<td>14:45</td>
<td>Individuation of objects and object parts rely on the same neuronal mechanism [3T2C006]</td>
<td>Marlene Poncet, Alfonso Caramazza and Veronica Mazza</td>
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### 15:00-16:00 Session 18

**Motion, Time, Space & Magnitude / Vision & Motor Control / Wholes and Parts (Illusions, Objects & Grouping)**  
**LOCATION:** Mountford Hall

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<tr>
<th>Time</th>
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<tr>
<td>15:00</td>
<td>An effect of noise on numerosity comparison [3P2M004]</td>
<td>Dina Devyatko and Igor Utochkin</td>
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<td>15:00</td>
<td>The effect of proximity in numerosity judgements [3P2M006]</td>
<td>Michele Zito and Marco Bertamini</td>
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<td>15:00</td>
<td>Verbal working memory influences time perception in explicit time estimation [3P2M008]</td>
<td>Paloma Mari-Belfa</td>
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<td>A study of magnitude estimation with depth cues changing visual perception of circle’s size judgment [3P2M010]</td>
<td>Adsson Magalhaes, Marcelo Fernandes Costa and Balazs Vincent Nagy</td>
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<td>Changes in the apparent speed of human locomotion: Norm-based coding of speed [3P2M012]</td>
<td>George Mather and Rebecca Sharman</td>
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<td>15:00</td>
<td>Visual search for objects with different direction variability and speed [3P2M018]</td>
<td>Linda Bows</td>
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<td>15:00</td>
<td>Parameters that modulate the interaction between target and background patterning in speed perception [3P2M020]</td>
<td>George Orlandi, Alberto Zani and Alice Mado Proverbio</td>
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<td>15:00</td>
<td>Dance expertise modulates the visuomotor perception of body motion [3P2M022]</td>
<td>Daisuke Harada, Isamu Motoyoshi and Miyuki G. Kamachi</td>
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<td>15:00</td>
<td>The role of orientation information in motion perception. [3P2M024]</td>
<td>Chihiro Asanoi and Koichi Oda</td>
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<td>15:00</td>
<td>Motion dazzle camouflage in groups; evidence for an interaction between high contrast patterns and the confusion effect. [3P2M030]</td>
<td>Rebecca J. Sharman and George Mather</td>
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<td>15:00</td>
<td>Up-down asymmetry in vertical vection [3P2M032]</td>
<td>Yasuhiro Seya, Hiroyuki Shinoda and Yoshiya Nakaura</td>
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15:00 Fiona Mcgrew, Lucy S Petro and Lars Muckli  
Orientation Decoding in V1 During Motion Induced Blindness [3P2M034]

15:00 Ryo Yamaji, Yasuhiro Saya and Hiroyuki Shinoda  
Relationship between vection and body sway [3P2M036]

15:00 Ilze Laicane, Jurgis Skilters, Vsevolod Lyakhovetski, Elina Zimasa and Gunta Krumina  
Perception of biological motion in central and peripheral visual field [3P2M038]

15:00 Nika Adamian and Patrick Cavanagh  
Motion-induce position shifts smaller across the vertical and horizontal meridians [3P2M040]

15:00 Seok-Hun Kim and Michael Turvey  
Suggested Independence between Perceived Size and Distance in the Optical Tunnel [3P2M042]

15:00 Chayada Chotsrisuparat, Rob van Lier and Arno Koning  
Auditory rhythms influence perceived distance of an occluded moving object [3P2M044]

15:00 Nathalie Van Humbeeck, Tom Putzeys and Johan Wagemans  
Population code modelling of grating detectability along the apparent motion path [3P2M046]

15:00 Nick Barraclough, Joanna Wincencik, James Ward, Tjeerd Jellema and Bruce Keefe  
Visual adaptation distorts judgments of human behaviour during naturalistic viewing [3P2M048]

15:00 Mukesh Makwana and Narayanann Srinivasan  
Intentional action expands Time perception: An ERP study [3P2M050]

15:00 Tobias Moehler and Katja Fiehler  
Reach trajectories curve away from remembered, past, and present distractor locations [3P2M052]

15:00 Yannick Wamain, François Gabrielli and Yann Coello  
Motor coding of visual objects in peripersonal space is task dependent : an EEG study [3P2M054]

15:00 Piotr Styrkowiec and Remigiusz Szczepanowski  
Spatial and motion stimulus-correspondence effects under cognitive load. [3P2M056]

15:00 Stephanie Kristensen, Brad Mahon, Frank Garcia and Jorge Almeida  
Subcortical influences in tool processing - the case for the magno-cellular processing under high temporal frequencies [3P2M058]

15:00 Pavel Voinov, Guenther Knoblich and Natalie Sebanz  
Within- and between-individual integration across visual perspectives in an object location task [3P2M060]

15:00 Ute Leonards, Nicholas Alexander, Brett Adey and David Redmill  
Floor pattern orientations impact on human-human spatial interaction [3P2M062]

15:00 Alice G. Cruickshank, Jonathan C. Flavell, Nathan C. Beebe, John G. Buckley, Simon J. Bennet, Julie M. Harris and Brendan T. Barrett  
Relationship between reaction time and ball catching in vision-restricted conditions in elite sportspeople [3P2M064]

15:00 Xavier Laurent and Paloma Mari-Beffa  
An action to an object does not improve its episodic encoding, but removes distraction [3P2M066]

15:00 Masayoshi Nagai, Yohei Yamada, Jun-Ichiro Kawahara and Yuiko Nishizaki  
Louder voice for bigger physical movement: Compatibility between vocalization and action production [3P2M068]

15:00 Gavin Buckingham and Jonathan Cole  
Perceiving and acting upon weight illusions in the absence of somatosensory information [3P2M070]

15:00 Jovancovic Ljubica and Oliver Toskovic  
Is proprioceptive perception of distance affected by exercise? [3P2M072]

15:00 Rongrong Chen, Kai Pong James Wong and Li Li  
Action video game play increases the coupling between visual motion processing and visuomotor control [3P2M074]

15:00 Sarah Cooney, Nuala Brady and Alanna Oshea O'Shea  
Point me in the Right Direction: Same and Cross Category Adaptation Aftereffects to Hand Pointing Direction [3P2M076]

15:00 Takako Yoshida, Shota Tanaka, Tenji Wake and Akira Ohta  
Effect of search strategy on tactile change detection [3P2M078]

15:00 Nathan Beebe, Jonathan Flavell, Alice Cruickshank, Simon Bennett, John Buckley, Julie Harris and Brendan Barrett  
Visuo-motor delay in fast and slow ball sports [3P2M080]

15:00 Gunnar Schmidtmann, Marouane Ouhnana and Frederik Kingdom  
Imagining Circles: A perceptual model for the Arc-Size Illusion [3P2M082]

15:00 Joshua Solomon and Christopher Tyler  
Weight allocation in summary statistics [3P2M084]

15:00 Lukasz Grzeczkowski, Aaron Clarke, Fred Mast and Michael Herzog  
No correlations between the strength of visual illusions [3P2M086]

15:00 Yun Ting and Li Jingling  
Does It Really Exist? Creating the collinear masking effect by illusory contours [3P2M088]

15:00 Einat Rashal, Yaffa Yeshurun and Ruth Kimchi  
When do we need attention for grouping? [3P2M090]

15:00 Tamara Nicoleta Gheorghes, Alessandro Soranzo and John Reidy  
The effect of inter-stimulus interval on the partially occluded slalom illusion [3P2M092]

15:00 Kempei Shiina and Nobuko Takahashi  
The Piling Illusion [3P2M094]

15:00 Klaus Landwehr  
How to study geometrical perceptual illusions [3P2M096]

15:00 Kuntal Ghosh, Anirj Mallick, Sourya Roy and Ashish Bakshi  
Limitations of the ODOG filter in special cases of brightness perception illusions [3P2M098]

15:00 Maarten Demeyer  
The decay of perceptual grouping by collinearity [3P2M100]

15:00 Galina Menshikova and Polina Krivykh  
The impact of eye movements on perception of “spine drift” illusion [3P2M102]
17:00 Artem Kovalev and Galina Menshikova  
**The shape of opto-kinetic nystagmus as indicator of perception of vection illusion** [3P2M104]  
17:00 Bruce Keefe, Kyriaki Mikellidou, Hannah Clawson, Andre Gouws, Peter Thompson and Antony Morland  
**The Helmholz size illusion is processed by extrastriate visual cortex** [3P2M106]  
17:00 Christine van Vliet and Bilge Sayim  
**Characteristics of target appearance changes during extrastriate search** [3P2M108]  
17:00 Andrea van Doorn, Jan Koenderink and Johan Wagemans  
**Natural districts of pictorial relief** [3P2M110]  
17:00 Caitlin Mullin, Lee De-Wit, Hans Op de Beeck, Johan Wagemans and Jonas Kubilius  
**The influence of segmentation on rapid scene categorization** [3P2M112]  
17:00 Damien Wright, Alexis Makin and Marco Bertianni  
**Neural responses to symmetry presented in the visual hemifields** [3P2M114]  
17:00 Andrea Pavan, Johanna Hocketstaller and Mark Greenlee  
**Tilt aftereffect from perception of global form from Glass Patterns** [3P2M116]  
17:00 Hanne Huygelier, Rebecca Chamberlain, Ruth Van der Hallen, Lee De-Wit and Johan Wagemans  
**The Leuven Embedded Figures Test (L-EFT): Measuring perception or cognition?** [3P2M118]  
17:00 Ellen Joos and Jürgen Kornmeier  
**Effects of stimulus ambiguity on task-related ERP components** [3P2M120]  
17:00 Viljami Salmela, Linda Henriksen and Simo Vanni  
**Representational similarity analysis of contour shape processing in the visual cortex** [3P2M122]  
17:00 Gunta Krumina, Vsevolod Liakhovetckii and Jurgis Skilters  
**Impacts of fatigue on mental rotation** [3P2M124]  
17:00 Katia Deliana, Jan Koenderink, Andrea van Doorn, Adam Reeves and Baingio Pinna  
**A new principle of figure-ground segregation and object formation: The accentuation** [3P2M126]  
17:00 David Badcock, Krystle Haley and J Edwin Dickinson  
**Using Visual Search to assess cues for Object shape** [3P2M128]  
17:00 Xuyan Yun, Simon Jan Hazenberg and Rob Van Lier  
**The interference effect of color in amodal completion** [3P2M130]  
17:00 Richard Vernon, Andre Gouws, Alex Wade and Antony Morland  
**The role of shape complexity in the lateral occipital complex** [3P2M132]  
17:00 Irina Shoshina, Yuri Shelepin, Elena Vershinina, Sergei Pronin, Kristina Novikova, Eduard Kravchenko and Nigel Foreman  
**Interaction mechanisms of global and local image analysis in visual systems of observers with field-dependent and field-independent cognitive style** [3P2M134]  
17:00 Pi-Chun Huang and Ching-Hua Shen  
**Feature integration in plaid revealed by visual search** [3P2M136]  
17:00 Justin Plantier, Charles-Antoine Salasc, Alain Bichot, Corinne Roumes and Sylvie Lelandais  
**Determination of relevant component parts of an object in a discrimination task with the bubbles method** [3P2M138]

16:00-17:45 Session 19A: Face perception  
CHAIR: Bruno Rossion  
LOCATION: A  

16:00 David Perrett, Iris Holzleitner and Bernard Tiddeman  
**Face shape cues to health** [3T3A001]  
16:15 Gavin Perry  
**The visual gamma response to faces reflects the presence of sensory evidence and not awareness of the stimulus** [3T3A002]  
16:30 Talia Retter and Bruno Rossion  
**An objective measure of facial identity adaptation with fast periodic visual stimulation** [3T3A003]  
16:45 Philip I N Ulrich, Robert A Johnston and David T Wilkinson  
**Caloric Vestibular Stimulation Modulates High Level Face Processing** [3T3A004]  
17:00 Robert Ward and Shubha Sreenivas  
**Self-representation of facial appearance** [3T3A005]  
17:15 Catriona Havard, Martin Thirkettle, David Barrett and Stephanie Ritcher  
**How does image background colour influence facial identification?** [3T3A006]  
17:30 Aliette Lochy, Laguesse Renaud, Friederike GS Zimmermann, Verena Willenbockel, Bruno Rossion and Quoc C Vuong  
**The crucial role of facial configuration in the development of visual expertise: objective electrophysiological evidence** [3T3A007]

16:00-17:45 Session 19B: Attention: visual search  
CHAIR: Ian Thornton  
LOCATION: B  
16:00 Guenter Meinhardt and Malte Persike  
**The preview benefit in single feature and conjunction search: Constraints of visual marking** [3T3B001]  
16:15 Anna Nowakowska, Alasdair D.F. Clarke, Arash Sahraei and Amelia K. Hunt  
**Simulated hemianopia: the effect of partial information loss on serial and parallel search** [3T3B002]  
16:30 Marius Usher, Rani Moran and Michael Zehetleitner  
**Serial vs parallel processes in Visual Search: model comparison to RT-distribution** [3T3B003]  
16:45 Valerie Beck and Andrew Hollingworth  
**Attentional Guidance by Simultaneously Active Working Memory Representations: Evidence from Competition in Saccade Target Selection** [3T3B004]  
17:00 Ian M. Thornton, Omar I. Johannesson and Arni Kristjansson  
**Choice Invaders: A new iPad task to explore fixed-interval target selection** [3T3B005]
17:15 Todd Horowitz
Very large memory sets in hybrid search: Can the log still save us? [3T3B006]

17:30 Chiahuei Tseng, Hiu Mei Chow and Li Jingling
Eye-of-origin guides attention away: Search disadvantage by ocular singletons [3T3B007]

16:00-17:45 Session 19C: Colour vision
CHAIR: Sophie Wuerger
LOCATION: C

16:00 Li Zhaoping
Dichoptic color gratings reveal a perceptual bias for binocular summation over binocular difference, which is stronger in central than peripheral vision [3T3C001]

16:15 Andrew Stockman, Andrew T. Rider and G. Bruce Henning
Flicker antagonism and synergism caused by multiple cone responses [3T3C002]

16:30 Jasna Martinovic, Ilincu Angelescu, Lilja-Maaria Kurppa, Tomohawk Paul McGinn, Marco Bertamini and Alexis D.J. Makin
Putting the S (cones) into Symmetry [3T3C003]

16:45 Florian Schiller, Matteo Valsecchi and Karl Gegenfurtner
Testing measures of saturation [3T3C004]

17:00 Rhea Eskew, Timothy Shepard and Scott Gabree
Pedestal masking of S cone tests: Effects of gain control and cone combination [3T3C005]

17:15 William Mcilhagga and Kathy Mullen
Classification images of chromatic edge detectors in human vision. [3T3C006]

17:30 Kathy T. Mullen, Donita H.F. Chang and Robert F. Hess
fMRI adaptation in the human LGN [3T3C007]

18:30-19:30 Session 20: Rank Lecture (Sponsored by Rank Prize Funds)
Rank Prize Lecture Marisa Carrasco
LOCATION: St George's Hall

18:30 Marisa Carrasco
How attention affects visual perception

19:30-22:00 Session : Social Dinner
Dinner in St George's Hall
LOCATION: St George's Hall

**Marisa Carrasco**
Department of Psychology, New York University
marisa.carrasco@nyu.edu

**Rank Prize Lecture - St George’s Hall**
Wednesday, 26th - 18.30-19:30
How Attention affects Early Vision

Abstract:
Attention allows us to select relevant sensory information for preferential processing. I will discuss several robust effects that attention has on early visual processes. I will present psychophysical studies regarding the effects of endogenous (voluntary) and exogenous (involuntary) covert attention –the selective processing of visual information without eye movements– on perceptual performance and appearance of basic visual dimensions across the visual field. First, I will summarize psychophysical and fMRI studies showing how contrast sensitivity increases at the attended location at the expense of reduced sensitivity at unattended locations; how attention not only improves discriminability but also speeds information accrual; and how appearance is affected by the way attention alters visual representation. I will discuss these results in reference to a normalization model of attention. Second, I will describe psychophysical studies of the effects of endogenous and exogenous attention on spatial resolution –search, acuity, and texture segmentation. I will show how selective adaptation can help us understand the mechanisms underlying differential effects of endogenous (voluntary) attention and exogenous (involuntary) attention in a texture segmentation task, and relate these findings to the physiological evidence indicating that attention modulates the gain of neuronal responses and alters the profile and position of receptive fields near the attended location.
Thursday, August 27th

09:00-11:00 Session 21A: Machine vision
CHAIR: Andrew Schofield
LOCATION: A

09:00 James Elder
General-Purpose Models in Biological and Computer Vision [4S1A001]

09:30 Christopher K. I. Williams
Modelling Scene Structure: Vision as Inverse Graphics [4S1A002]

10:00 Gabriel Brostow
Human in the loop computer vision [4S1A003]

10:30 Richard Bowden
The evolution of Computer Vision [4S1A004]

09:00-11:00 Session 21B: Colour Constancy
CHAIR: Alexander Logvinenko
LOCATION: B

09:00 Alexander Logvinenko
What we mean by colour constancy and how to study it [4S1B001]

09:15 David Brainard
Confessions of a Constancy Index Junkie [4S1B002]

09:30 David Foster
Colour constancy and the challenge of environmental change for perceived surface colour [4S1B003]

09:45 Karl Gegenfurtner, Marina Biloj and David Weiss
Real color constancy [4S1B004]

10:00 Anya Hurlbert, Bradley Pearce and Stacey Aston
All Illuminations are not Created Equal: The Limits of Colour Constancy [4S1B005]

10:15 Adam Reeves
Functional color constancy [4S1B006]

10:30 Laurence Maloney
Questions in Surface Color Perception [4S1B007]

10:45 Qasim Zaidi
Identifying surface colors across illumination conditions: Neural Adaptation, Similarity Judgments and Prior Beliefs [4S1B008]

09:00-11:00 Session 21C: Pupillometry
CHAIR: Sarah Lukas
LOCATION: C

09:00 Christoph Scheepers and Wilhelmiina Toivo
Pupillary responses to emotionally arousing words in bilinguals' first versus second language [4S1C001]

09:20 Aleksandra Pieczykolan and Lynn Huestegge
The eyes' many stories about concurrent (cross-modal) action demands: Effects on saccadic latency, pupil response, and blink rate [4S1C002]

09:40 Sarah Lukas, Gabriel Yuras and Anke Huckauf
Different measurements of pupil size as response to auditory affective stimuli and their application in a visual perception task [4S1C003]

10:00 Serdar Baltaci and Didem Gokcay
Evaluation of features derived from pupil dilation in a stress induction experiment [4S1C004]

10:20 Jan Ehlers, Christoph Strauch and Anke Huckauf
Voluntary Pupil Control [4S1C005]

10:40 Piril Hepsomali, Simon P. Liversedge, Julie A. Hadwin and Matthew Garner
Effects of emotion and cognitive load on pupillometric and saccadic responses in anxiety [4S1C006]

11:00-12:00 Session 22
Individual Growth & Difference (Disorders, Development & Aging) / Vision & Other Senses / Basic Visual Mechanisms (Binocular Vision, Depth Perception & Fovea vs. Periphery)
LOCATION: Mountford Hall

11:00 Gemma Learmonth, Gregor Thut, Christopher Benwell and Monika Harvey
The EEG correlates of stimulus-induced spatial attention shifts in healthy aging. [4P1M001]

11:00 Simone Gori, Luca Ronconi, Sandro Franceschini, Sara Bertoni, Laura Franchin and Andrea Facoffi
Visual attentional focusing in 8-month-old infants predicts their future language skills [4P1M003]

11:00 Valerie Goffaux, Aude Poncin and Christine Schiltz
Selectivity of face perception to horizontal information over lifespan (from 6 to 74 year old) [4P1M005]

11:00 Nicoletta Noceti, Alessandra Scolitti, Alessia Vignolo, Francesco Rea, Francesca Odone and Giulio Sandini
Modeling the development of visual perception with computational vision [4P1M007]

11:00 Andrew J Schofield and Harriet A Allen
Texture amplitude provides only limited support for shape-from-shading in a visual search task and older adults are less able to utilize this cue. [4P1M009]

11:00 Sara Calzolari, Giulio Contemori and Clara Casco
Form-motion suppressive interactions in normal and disabled readers - ECPV2015 [4P1M011]
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<th>Authors</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Simon Davies, Lorna Bourke and Neil Harrison</td>
<td>Developmental progression in the audio-visual binding of novel environmental features in children</td>
<td>[4P1M013]</td>
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<td>11:00</td>
<td>Lisa Alcock, Brook Galna, Georgie Foster-Thomton, Jeffrey Hausdorff, Sue Lord and Lynn Rochester</td>
<td>Eye movements during obstacle crossing in people with Parkinson’s disease who fall: Influence of disease severity and visual contrast</td>
<td>[4P1M015]</td>
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<td>11:00</td>
<td>Takahiko Kimura, Koji Nagino, Kazushi Yokoi, Kazumi Fujiwara and Takeshi Hatta</td>
<td>Effect of mental practice on mental rotation after stroke: comparison between alphabet letters and hands</td>
<td>[4P1M017]</td>
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<tr>
<td>11:00</td>
<td>Stephanie Dunn, Megan Freeth and Elizabeth Milne</td>
<td>ERP evidence of reduced spatial selectivity in those with high levels of self-reported autistic traits</td>
<td>[4P1M019]</td>
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<td>11:00</td>
<td>Ophélie Favrod, Michael H. Herzog and Galina V. Parameli</td>
<td>Contour-integration deficits in intact visual field of hemianopia patients</td>
<td>[4P1M021]</td>
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<td>11:00</td>
<td>Rosanna Gomez, Katrina Bennett, Abigail Dickinson and Elizabeth Milne</td>
<td>Orientation discrimination is not altered in children with autism spectrum conditions.</td>
<td>[4P1M023]</td>
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<td>11:00</td>
<td>Madoka Ohnishi and Koichi Oda</td>
<td>The effect of high resolution letters on legibility for persons with low vision</td>
<td>[4P1M025]</td>
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<td>11:00</td>
<td>Maria Gracheva, Svetlana Rykhova and Galina Rozhkova</td>
<td>Individual variability in visual acuity improvement due to binocular fusion and accommodation training</td>
<td>[4P1M027]</td>
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<td>11:00</td>
<td>Olga Sysoeva, Elena Orekhkova, Manna Tsetlin, Natalia Pushina, Maria Davletshina, Ilya Galuta and Tatiana Stroaganova</td>
<td>The reduced visual orientation discrimination in children with autism spectrum disorders (ASD) is specific for cardinal axis</td>
<td>[4P1M029]</td>
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<td>11:00</td>
<td>Maria Barraza Bernal, Katharina Rifai and Siegfried Wahl</td>
<td>Inducing the preferred retinal locus of fixation</td>
<td>[4P1M031]</td>
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<td>11:00</td>
<td>Katharina Schmack and Philipp Sterzer</td>
<td>Evidence for attenuated predictive signalling in schizophrenia</td>
<td>[4P1M033]</td>
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<td>11:00</td>
<td>Abigail Dickinson, MichaelBruyns-Haylett, Myles Jones and Elizabeth Milne</td>
<td>Orientation discrimination is superior in individuals with autism spectrum conditions (ASC)</td>
<td>[4P1M035]</td>
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<tr>
<td>11:00</td>
<td>Aiga Svede, Aiga Batare and Gunta Krumina</td>
<td>The effect of visual fatigue on clinical evaluation of vergence</td>
<td>[4P1M037]</td>
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<td>11:00</td>
<td>Lee McIlreavy, Jonathan T. Erichsen and Tom C.A. Freeman</td>
<td>Perceptual compensation of pursuit-induced retinal motion in infantile nystagmus</td>
<td>[4P1M039]</td>
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<td>11:00</td>
<td>Aya Shirama, Nobumasa Kato and Makio Kashino</td>
<td>Briefly presented visual search tasks reveal superior parallel processing in individuals with autism spectrum disorder</td>
<td>[4P1M041]</td>
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<td>11:00</td>
<td>Keita Hirai, Shinya Takehi and Takahiko Horiuchi</td>
<td>Color Vision Deficiency Test using Multi-primary Image Projector</td>
<td>[4P1M043]</td>
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<td>11:00</td>
<td>Galina Rozhkova, Svetlana Rykhova and Maria Gracheva</td>
<td>Optimal parameters of the treatment procedures for rehabilitation and development of binocular functions in different cases</td>
<td>[4P1M045]</td>
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<tr>
<td>11:00</td>
<td>Franziska Geringswald and Stefan Pollmann</td>
<td>Central and peripheral vision loss differentially affects contextual cueing in visual search</td>
<td>[4P1M047]</td>
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<td>11:00</td>
<td>Lauren Welbourne, Johanna Gledhill, Victoria Wilkinson and Alex Wade</td>
<td>Contrast detection differences between dichromats and trichromats</td>
<td>[4P1M049]</td>
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<td>11:00</td>
<td>David Arnoldussen, Zahra Hussain, Ben Webb, Denis Schlupeck and Paul McGraw</td>
<td>Measuring visual field distortions in amblyopia</td>
<td>[4P1M051]</td>
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<td>11:00</td>
<td>Heidi Baseler, Charlotte Codina, David Buckley, Charlotte Campbell, Gabriela De Sousa and Alexandra Levine</td>
<td>Differences between deaf and hearing adults in visual projections from eye to brain</td>
<td>[4P1M053]</td>
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<td>11:00</td>
<td>Dhanraj Vishwanath, Deborah Amster and Giedre Zlatkute</td>
<td>Do strabismics perceive monocular stereopsis?</td>
<td>[4P1M055]</td>
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<td>11:00</td>
<td>Sanne Brederoo and Mark Nieuwenstein</td>
<td>Lateralization of visual functions</td>
<td>[4P1M057]</td>
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<td>11:00</td>
<td>Lynn Oztok, Eric Hodgson and Vincent Billock</td>
<td>Combining body ownership illusions and time delay adaptation in virtual reality environments</td>
<td>[4P1M059]</td>
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<tr>
<td>11:00</td>
<td>Stefano Cecchetto and Rebecca Lawson</td>
<td>Comparing the role of concavities and convexities in haptics and in vision</td>
<td>[4P1M061]</td>
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<tr>
<td>11:00</td>
<td>Stephanie Rosemann, Freimuth Brunner, Andreas Kastrup and Manfred Fahle</td>
<td>Deficits in visual and auditory Gestalt perception after stroke</td>
<td>[4P1M063]</td>
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<td>11:00</td>
<td>Dimitris Voudours, Alexander Goettker, Stefanie Mueller and Katja Fiehler</td>
<td>Saccades towards targets of different somatosensory modalities</td>
<td>[4P1M065]</td>
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<td>11:00</td>
<td>Shu Imaizumi and Tomohisa Asai</td>
<td>Time contraction during delayed visual feedback of hand action</td>
<td>[4P1M067]</td>
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<td>11:00</td>
<td>Angus Paton, Lucy Petro, Luca Vizioli and Lars Muckli</td>
<td>Investigating Sound Content in Early Visual Cortex</td>
<td>[4P1M069]</td>
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<tr>
<td>11:00</td>
<td>Michael Wagner and Tomer Elbaum</td>
<td>“Feeling by seeing”: Eliciting haptic sensing by a non-attentive visual method: Psychophysical haptic – visual transformation functions</td>
<td>[4P1M071]</td>
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<td>11:00</td>
<td>Giulia Cappagli, Sara Finocchietti and Monica Gori</td>
<td>Superior sensitivity for horizontal but not vertical audio localization in sighted children</td>
<td>[4P1M073]</td>
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<tr>
<td>11:00</td>
<td>Lorna Bourke, Simon Davies, Katie Sherry and James Fallis</td>
<td>The development of audio-visual integration processes in short-term memory for information used in literacy</td>
<td>[4P1M075]</td>
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<tr>
<td>11:00</td>
<td>Alessia Tonelli, Luca Brayda and Monica Gori</td>
<td>Depth echolocation task in novices sighted people.</td>
<td>[4P1M077]</td>
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</tbody>
</table>
A role of cutaneous inputs in self-motion perception (2): Does the wind decide the direction of perceived self-motion? [4P1M079]

Cross-modal insights into the controversies of conceptual knowledge representation and temporal pole asymmetry [4P1M081]

Does the sense of agency occur when tactile feedback is substituted for proprioceptive feedback? [4P1M083]

Hearing through your eyes: the Visually-Evoked Auditory Response [4P1M085]

Evaluating Multimodal Warning Displays for Drivers with Autism [4P1M089]

The effect of perceived reality of the visual scene in cross-modal interaction [4P1M091]

The Role of Stereoscopic Depth Cues in Place Recognition [4P1M097]

Effect of Luminance Contrast on Perceived Depth from Disparity [4P1M099]

The perceptual integrability of 3D shape [4P1M111]

Simple reaction times to stimuli in virtual 3D space [4P1M113]

The distribution of visual marking in 3-D space: Evidence for a depth sensitive mechanism [4P1M115]

Binocular summation, binocular fusion and the transition to diplopia [4P1M117]

A population response model of spatial crowding over time [4P1M119]

The relation between inter-object distance and contributions of eye- and image-based grouping during rivalry [4P1M121]

Boundary extension effect is larger in tilt shift photographs [4P1M123]

Distance Perception in Immersive Environments – The Role of Photorealism [4P1M125]

Can substitution explain crowding? A study of error distribution in letter crowding. [4P1M127]

Invisible Aftereffects: is awareness necessary? [4P1M129]

The neural origins of visual crowding as revealed by event-related potentials and high-frequency oscillatory dynamics [4P1M131]

Object substitution masking, stimulus noise, and perceptual fidelity [4P1M133]

Peripheral vision effects central task performance under visual fatigue [4P1M135]

Discrimination of blur in peripherally-viewed natural scenes [4P1M137]
12:30-14:00 Session 23: Future of Scientific Publishing
CHAIR: Lee De-Wit
LOCATION: A

Academic publishing remains expensive and inefficient. Several alternative models to publishing have recently emerged (new publishers like PeerJ and Ubiquity Press and open source software for managing the publication process), but these have yet to be taken up within the mainstream of vision science. This session will discuss what steps we can take in moving towards a genuinely low costs Open-Access publication model in vision science.

14:00-15:00 Session 24: Business Meeting
CHAIR: Marco Bertamini
LOCATION: A

15:00-16:00 Session 25
Individual Growth & Difference (Disorders, Development & Aging) / Vision & Other Senses / Basic Visual Mechanisms
(Binocular Vision, Depth Perception & Fovea vs. Periphery)
LOCATION: Mountford Hall

15:00 Andrea Facoetti, Luca Ronconi, Miriam Devita, Massimo Molteni and Simone Gori
The relationship between orienting and zooming of spatial attention in autism spectrum disorder [4P2M002]

15:00 Helen Kaye
The effect of age on confidence and accuracy in eye-witness judgements [4P2M004]

15:00 Barbara Piotrowska, Alexandra Willis and Jon Kendige

15:00 Amanda M. Beers, Allison B. Sekuler and Patrick J. Bennett
The Oblique Effect is Not Altered By Aging [4P2M008]

15:00 Giulio Contemori and Clara Casco
Spatiotemporal Visual Processing in school-age children and adults [4P2M010]

15:00 Bat Sheva Hadad, Daphne Maurer and Terri Lewis
Contour Interpolation: Normal development and the effect of early visual deprivation [4P2M012]

15:00 Khatuna Parkosadze and Therese Collins
Saccadic adaptation in aging [4P2M014]

15:00 Georgina Powell, Zoe Meredith and Tom C Freeman
Characterising individual differences with Bayesian Models: an example using autistic traits and motion perception [4P2M016]

15:00 Chie Takahashi and Jason Braithwaite
Stimulating the Aberrant Brain: Predisposition to Anomalous Visual Distortions Reflects increased Cortical Hyperexcitability in those prone to Hallucinations: Evidence from a tDCS Brain Stimulation Study. [4P2M018]

15:00 Steven Vanmarcke, Ilse Noens, Jean Steyaert and Johan Wagemans
Ultra-rapid categorization of meaningful real-life scenes in people with and without ASD [4P2M020]

15:00 Louise O'Hare
Visual search in migraine [4P2M022]

15:00 Sulaiman Aldakhil, Lyle Gray, Dirk Seidel and Mhari Day
Dual focus contact lenses produce inaccurate steady state accommodation responses in emmetropic subjects [4P2M024]

15:00 Emma Gowen, Stephen Jachim and Paul A. Warren
Investigating visual integration in Autism Spectrum Disorders using collinear facilitation with temporal masking [4P2M026]

15:00 Partow Yazdani, Jenny Read, Roger Whittaker and Andrew Trevelyan
The dissociation of different measures of cortical inhibition in the visual system, and their use for non-invasive monitoring of epilepsy susceptibility [4P2M028]

15:00 Brandon Ashinoff, Mariel Roberts, F. Xavier Castellanos and Marisa Carrasco
Exogenous Spatial Attention in Adults with ADHD is Intact [4P2M030]

15:00 Sven P. Heinrich, Lisa Herold, David J. Marthöfer and Michael Bach
Spatial-frequency tuning of the steady-state pattern-onset visual evoked potential: The topography of the "notch" [4P2M032]

15:00 Daniela Altavilla, Massimiliano Luciani and Carlo Lai
Attachment style dimensions are associated with neural activation during proactive activity [4P2M034]

15:00 Maya Roineville, Céline Cappe, Albulena Shqafi, Andreas Brand, Eka Chkonia and Michael Herzog
What crowding tells about schizophrenia [4P2M036]

15:00 Richard Johnston, Timothy Ledgeway, Nicola J. Pitchford and Neil W. Roach
What is the underlying nature of the perceptual deficit in adult poor readers? [4P2M038]

15:00 Sorga Breitenbach
The relationship between visual functions and reading performance in children with reading difficulties

15:00 Gatis Ikaunieks, Liva Kapteine, Madara Seglina, Karola Panke and Gunta Krumina
Changes in amplitude of accommodation for school-age children during the day [4P2M042]

15:00 Kate Bennett, Sophie Wuenger, Victoria Lowers, Jayashree Sahni, Gabriela Czanner, Tatiana Gutu, Ian Grierson, Martin Holland and Simon Harding
A Mixed-Method Analysis Assessing the Effects of Wearing organic light emitting diode (OLED) sleep mask on Sleep and Psychological Wellbeing [4P2M044]
15:00  Inci Ayhan, Edward Doyle and Johannes Zanker  
The Iterative Amsler Grid (IAG) : A procedure to measure image distortions in Age-Related Macular Degeneration (AMD) [4P2M046]

15:00  Sandra Hanekamp, Joyce Boucard, Masahiro Ida, Masaki Yoshida, Bransilava Curcic-Blake and Frans W. Cornelissen  
Neurodegeneration of the optic radiations and corpus callosum in Normal-Tension Glaucma [4P2M048]

15:00  Alexandra Levine, Charlotte Codina, David Buckley, Gabriela De Sousa and Heidi Baseler  
Visual performance linked to cortical magnification differences in deaf and hearing adults [4P2M050]

15:00  Frans W Cornelissen and Edi Brenner  
Is adding a new class of cones to the retina sufficient to cure colour blindness? [4P2M052]

15:00  Peipei Liu, Margaret Sutherland and Frank Pollick  
Perception of Affect from Audiovisual Stimuli in Individuals with Subclinical Autistic-like Traits and Anxiety [4P2M054]

15:00  Seong Taek Jeon, Mahesh Raj Joshi and Anita Simmers  
Noise reveals abnormal global integration of motion and form in strabismic amblyopia [4P2M056]

15:00  Niklas Domdei, Frank Holz, Austin Roorda, Lawrence Sinich and Wolf Harmening  
Characterization of an adaptive optics SLO based retinal display for cellular level visual psychophysicics [4P2M058]

15:00  Andreas Baranowski and Heiko Hecht  
Auditively induced Kuleshov Effect. On multisensory integration in movie perception. [4P2M060]

15:00  Rebecca Lawson and Stefano Cucchietto  
Visual and haptic detection of mirror-reflected contours and repeated contours within one object versus across two objects [4P2M062]

15:00  Francesca Ferrini, Simon Watt and Paul Downing  
Separate neural representations of visual and haptic object size [4P2M064]

15:00  Gregor Hardless, Stefanie Erhardt and Hanspeter Mallot  
Bimodal perceptual integration facilitates representation in working memory [4P2M066]

15:00  Yi-Chuan Chen, Terri L. Lewis, David I. Shore and Daphne Maurer  
The development of the perception of visuotactile simultaneity [4P2M068]

15:00  Andrea Piovesan, Christophe De Bezenac, Noreen O'Sullivan and Marco Bertamini  
Unfaithful mirror: A new procedure to decrease the sense of ownership and agency of one's own face. [4P2M070]

15:00  Max Aldridge, Natalia Cooper, Georg Meyer and Mark White  
Simulation Fidelity Affects Perceived Comfort. [4P2M072]

15:00  Akihisa Takemura, Shino Okuda and Katsunori Okajima  
Multimodal effects of color and aroma on predicted palatability of semisolid and liquid milk beverages [4P2M074]

15:00  Lore Thaler and Megan Cutts  
Luminance signals interfere with echolocation in sighted people [4P2M076]

15:00  Sarah Maddison, Neil W. Roach and Ben S. Webb  
Distinct mechanisms of audio-visual asynchrony adaptation operate over different timescales [4P2M078]

15:00  Kayoko Murata, Hidemi Komatsu, Yasushi Nakano, Shigeru Ichihara, Masami Ishihara and Naoko Masuda  

15:00  Li Wang, Dong Liu and Yi Jiang  
Auditory Working Memory Modulates Unconscious Visual Processing [4P2M082]

15:00  Akira Asano, Risa Hirota, Chie Muraki Asano and Katsunori Okajima  
Difference of impressions on kimonos fabrics by LCD view, actual view, and tactile feels [4P2M084]

15:00  Elliot D. Freeman, Synove Knudsen and Chris Fassnidge  
Hearing through your eyes: modulation of the visually-evoked auditory response by transcranial electrical stimulation [4P2M086]

15:00  Alexandra Lezkan and Knut Drewing  
Motivation modulates haptic softness exploration [4P2M088]

15:00  Eleanor O'Keefe, Edward Essock and Paul DeMarco  
Putting visual reference frames in conflict to study the horizontal effect: a visual anisotropy [4P2M090]

15:00  Amanda Lillywhite, Donald Gowinski, Bruno Giordano, Antonio Camurri, Ian Cross, Sarah Hawkins and Frank Pollick  
An fMRI study investigating the contribution of visual features to an intersubject correlation (ISC) of brain activity during observation of a String Quartet [4P2M092]

15:00  David Buckley, Philip Duke and Helen Davis  
Changing depth cue reliance by playing videogames [4P2M094]

15:00  Hideaki Takada, Munekazu Date, Tatsuya Yamakawa, Takehito Kojima, Ichiro Morita, Yuma Honda and Masaru Miyao  
Ocular Accommodation and Depth Position in Depth-Fused 3D Visual Perception [4P2M096]

15:00  Yih-Shiuan Lin and Chien-Chung Chen  
Luminance prevailed over disparity in depth discrimination [4P2M098]

15:00  Filipe Cristino and Charles Leek  
Differential sensitivity to surface curvature polarity in 3D objects is not modulated by stereo disparity [4P2M100]

15:00  Laurie M. Wilcox and Lesley M. Deas  
The effects of 2-D and 3-D configuration on stereoscopic depth magnitude percepts [4P2M102]

15:00  Laurence Tidbury, Anna O'Connor and Sophie Wuerger  
Fusional demand and stereocuity [4P2M104]

15:00  Brian Rogers  
Reformulating Motion Parallax as a source of 3-D information [4P2M106]
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<td>15:00</td>
<td>Ana Fernandez, Mhairi Day, Seidel Dirk and Lyle S. Gray</td>
<td>Closed loop accommodation response to step changes in disparity vergence upon stereoscopic displays [4P2M108]</td>
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<td>15:00</td>
<td>Roby Michelangelo Vota, Dicle Dövencioğlu, Odah Ben-Shahar, Katja Dörschner and Maarten Wijntjes</td>
<td>The contribution of motion to shape-from-specularities [4P2M110]</td>
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<td>15:00</td>
<td>Marianne Piano, Anita Simmers and Peter Bex</td>
<td>The impact of active shutter glasses viewing upon horizontal motor fusion amplitudes [4P2M112]</td>
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<td>15:00</td>
<td>Cristina de La Malla, Stijn Buiteman, Wimmer Otters, Jeroen B.J. Smets and Elke Brenner</td>
<td>The contributions of various aspects of motion parallax when judging distances while standing still [4P2M114]</td>
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<td>15:00</td>
<td>Agostino Gibaldi, Andrea Canessa and Silvio P. Sabatini</td>
<td>The Dimpled Horopter Explained by the Strategy of Binocular Fixation [4P2M116]</td>
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<td>15:00</td>
<td>János Geier and Mariann Hudák</td>
<td>A computational model for stereopsis and its relevance to binocular rivalry [4P2M118]</td>
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<td>15:00</td>
<td>Andrew Astle, David McGovern and Paul McGraw</td>
<td>The effect of viewing angle on visual crowding [4P2M120]</td>
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<tr>
<td>15:00</td>
<td>Hans Strasburger and Nicholas J Wade</td>
<td>James Jurin (1684–1750): A pioneer of crowding research? [4P2M122]</td>
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<tr>
<td>15:00</td>
<td>Matthew Bennett, Lucy Petro and Lars Muckli</td>
<td>Investigating scene feedback to foveal and peripheral V1 using fMRI [4P2M124]</td>
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<td>15:00</td>
<td>Keith Langley and Stephen J. Anderson</td>
<td>Eigen-Adaptation and Distributed Representation of 2-D Phase, Energy, Scale and Orientation in Spatial Vision [4P2M126]</td>
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<tr>
<td>15:00</td>
<td>Sarah Camp and Michael Pilling</td>
<td>The role of crowding in Object Substitution Masking. [4P2M128]</td>
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<tr>
<td>15:00</td>
<td>Koichi Oda, Madoka Ohrishi, Terumi Otsukuni and Aoi Takahashi</td>
<td>Both character size and spacing affect readability of Japanese [4P2M130]</td>
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<tr>
<td>15:00</td>
<td>Jan Skerswatel, Monika A. Formankiewicz and Sarah J. Waugh</td>
<td>Mixed percepts within binocular rivalry for luminance- and contrast-modulated gratings [4P2M132]</td>
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<td>15:00</td>
<td>Deyue Yu</td>
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<td>Perceptual cancellation of stimulus saliency under dichoptic viewing conditions [4P2M136]</td>
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<td>Anete Pausus, Laura Strautina, Peteris Cikmacs and Gunta Krumina</td>
<td>Blur adaptation, blur sensitivity and visual load [4P2M138]</td>
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**16:00-18:00 Session 26A: Networks and coding**

**CHAIR:** Johannes Zanker

**LOCATION:** A

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<td>Philipp Sterzer, Gregor Wilbertz, Martin Hebart and Matthias Guggenmos</td>
<td>Mesolimbic confidence signals guide perceptual learning in the absence of external feedback [4T3A001]</td>
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<td>József Arato, Abbas Khani, Gregor Rainer and József Fiser</td>
<td>Statistical determinants of sequential visual decision-making [4T3A002]</td>
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<td>Mirjan van Dijk, Nicolas Gravel, Koen Haak, Nomdo M. Jansonius, Plm van Dijk and Frans Cornelissen</td>
<td>Connective field mapping in a hemispherectomized patient [4T3A003]</td>
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<td>Yulia Revina, Lucy S. Petro, Cristina Denk-Florea and Lars Muckli</td>
<td>Increased stimulation of the non-classical receptive field region results in more information in occluded V1. [4T3A004]</td>
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<td>17:00</td>
<td>Benjamin Vincent</td>
<td>Bayesian models of perception [4T3A005]</td>
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<td>17:15</td>
<td>Andrew T. Morgan, Lucy S. Petro, Luca Vizioli and Lars Muckli</td>
<td>Individual scene, category and depth information is fed back to retinotopically non-stimulated subsections of early visual cortex. [4T3A006]</td>
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<td>17:30</td>
<td>David Hunter and Paul Hibbard</td>
<td>Learning Disparity tuned complex-cell like models using Independent Subspace Analysis [4T3A007]</td>
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<td>17:45</td>
<td>Roland Baddeley and Bobby Stijzand</td>
<td>Attention as Gibbs sampling [4T3A008]</td>
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**16:00-18:00 Session 26B: Multisensory perception**

**CHAIR:**

**LOCATION:** B

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<td>Karin Petrini</td>
<td>Prioritizing speed over accuracy in audiovisual integration of threatening stimuli [4T3B002]</td>
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<td>16:30</td>
<td>Basil Wahn and Peter König</td>
<td>Vision shares spatial attentional resources with haptics and audition, yet attentional load does not disrupt visuotactile or audiovisual integration. [4T3B003]</td>
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<td>16:45</td>
<td>Daniel Poole, Ellen Poliakoff, Emma Owen and Paul A. Warren</td>
<td>Visual-haptic cue combination in adults with autism spectrum condition [4T3B004]</td>
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<td>17:00</td>
<td>Giulio Sandini, Claudio Campus and Monica Gori</td>
<td>Impaired audio spatial abilities in blind adults: a behavioural and electrophysiological study [4T3B005]</td>
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17:15 Yuanyuan Aimee Zhao and Colin Blakemore
How well do we know whether we are seeing or hearing? On the robustness of modality discrimination. [4T3B006]

17:30 Oliver Toskovic
We all live in the anisotropic submarine – differences in perceived distance anisotropy trough senses. [4T3B007]

17:45 Derek Arnold, Morgan Spence and Morgan McIntyre
Neural population codes, decisional confidence and cross-modal facilitation [4T3B008]

16:00-17:45 Session 26C: 3D vision, depth and stereo
CHAIR: Brian Rogers
LOCATION: C

16:00 Casper Erkelens
The finite depth of visual space inferred from perspective angles [4T3C001]

16:15 Masanori Idesawa and Xiaohong Cheng
3-D Perception from Anomalous Motion perceived in Still Figures [4T3C002]

16:30 Vivek Nityananda, Ghaith Tarawneh, Ronny Rosner, Judith Nicolas, Stuart Crichton and Jenny Read
Insect stereo vision demonstrated using virtual 3D stimuli [4T3C003]

16:45 Paul Hands and Jenny Read
The interaction between familiar size and stereoscopic depth cues [4T3C004]

17:00 Zoltán Derzsi, Ghaith Tarawneh, Kai Alter and Jenny Read
A stereoscopic look at frequency tagging: Is a single frequency enough? [4T3C005]

17:15 Olga Naumenko and Brian Rogers
The perception of straightness and parallelism in extended lines [4T3C006]

17:30 Danielle Smith, Danielle Ropar, Hannah Radley and Harriet A Allen
The functional significance of stereopsis does not follow a developmental trajectory [4T3C007]

18:00-23:00 Session: Goodbye Party with live music
LOCATION: St Luke’s Church
This is also known as the bombed out church (it has no roof). The address is Leece Street, Liverpool, L1 2TR. You will see it as you walk downhill along Hardman Street.
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At the heart of Liverpool's St George's Quarter, St George's Hall is a breathtaking venue which hostes public events and exhibitions. Built in the early 1800s as a space for music festivals and the Civil and Crown courts, the hall has always been at the heart of community life in the city.

**The Walker Art Gallery**
It houses one of the largest art collections in England. The Walker Art Gallery's collection dates from 1819 when the Liverpool Royal Institution acquired 37 paintings from the collection of William Roscoe. The collection grew over the following decades: in 1851 Liverpool Town Council bought Liverpool Academy's diploma collection and further works were acquired from the Liverpool Society for the Fine Arts, founded in 1858.

**Central Library**

**World Museum**
It has extensive collections covering archaeology, ethnology and the natural and physical sciences. Special attractions include the Natural History Centre and a free Planetarium.
The University Area and Hope Street

At the two extremes of Hope St. the two cathedrals face each other.

Liverpool Cathedral
Liverpool Cathedral is the Church of England Cathedral of the Diocese of Liverpool, built between 1904 and 1978 on St James's Mount in Liverpool and is the seat of the Bishop of Liverpool. It ranks as the fifth-largest cathedral in the world and contests with the incomplete Cathedral of Saint John the Divine in New York City for the title of largest Anglican Church building.

Metropolitan Cathedral
Liverpool Metropolitan Cathedral, formally the Metropolitan Cathedral of Christ the King, is the seat of the Archbishop of Liverpool and the mother church of the Roman Catholic Archdiocese of Liverpool. The cathedral's architect, Frederick Gibberd, was the winner of a worldwide design competition. Construction began in 1962 and took five years. The Grade II Metropolitan Cathedral is one of Liverpool's many listed buildings.

The Williamson Tunnel-Heritage Centre
The Williamson Tunnels are a labyrinth of tunnels in the Edge Hill area of Liverpool, which were built under the direction of the eccentric businessman Joseph Williamson between 1810 and 1840. They remained derelict, filled with rubble and refuse, until archaeological investigations were carried out in 1995. Since then excavations have been carried out and part of the labyrinth of tunnels has been opened to the public as a heritage centre.
**China Town**  
Chinatown in Liverpool is located near the city centre’s southern edge close to Liverpool Cathedral, and is home to the oldest Chinese community in Europe. The arch located at the gateway is also the largest, multiple-span arch of its kind outside of China, the largest single-span arch being located in Washington D.C.

**St. Luke**  
St Luke’s Church is a former Anglican parish church, which is now a ruin (also known as *the bombed out church*). It stands on the corner of Berry Street and Leece Street, looking down the length of Bold Street. The church was built between 1811 and 1832, and was designed by John Foster, senior and John Foster, junior, father and son who were successive surveyors for the municipal Corporation of Liverpool.

**Bold Street**  
Bold Street is a prestigious street located in the heart of Liverpool city centre. The street is famously known for having the most independent small and large businesses. This bohemian feeling street, with restaurants, bars, bistros, boutiques, world food stores, fashion retail, sport shops, gothic, Bridal, Christening and furniture to keep you busy all day is a street that is popular amongst tourists and locals. The friendly open spaced vibe is second to none and it gives tourists a unique perspective on the culture of Liverpool.

**FACT**  
The Foundation for Art & Creative Technology is a new media arts centre based on Wood Street. For audiences, FACT provides a point of entry into the arts of film, video and new media. For artists, it is a support system without parallel in the UK. For Liverpool, it forms a key aspect of its cultural and economic renaissance. FACT was a key organisation during Liverpool’s European Capital of Culture year, 2008.
City centre and Liverpool One

A spectacular piece of street theatre to commemorate the First World War. The giant visitors embarked on an emotional journey around the city in August 2014.

**Town Hall**
The town hall was built between 1749 and 1754 to a design by John Wood the Elder. It is recorded in the National Heritage List for England as a designated Grade I listed building, and described in the list as "one of the finest surviving 18th-century town halls".

**The Bluecoat**
A creative hub, which showcases talent across visual art, music, dance, live art and literature. Built in 1716-17 as a charity school, Bluecoat Chambers in School Lane is the oldest surviving building in central Liverpool and it is part of UNESCO patrimony.

**The Cavern Club**
The original Cavern Club opened in 1957 as a jazz club, later becoming a centre of the ‘rock and roll’ scene in Liverpool in the 1960s. The Beatles played in the club in their early years.

**Liverpool One – Shopping centre**
High street fashion brands and boutiques. Chavasse Park overlooks the waterfront with its cafes and restaurants.
The Albert Dock

The Albert Dock is a complex of dock buildings and warehouses. Designed by Jesse Hartley and Philip Hardwick, it was opened in 1846, and was the first structure in Britain to be built from cast iron, brick and stone, with no structural wood. As a result, it was the first non-combustible warehouse system in the world.

Tate Gallery
The gallery opened in 1988 and is housed in a converted warehouse within the Albert Dock on Liverpool's waterfront. Tate Liverpool was created to display work from the Tate Collection which comprises the national collection of British art from the year 1500 to the present day, and international modern art. The gallery also has a programme of temporary exhibitions.

Maritime Museum
Opened in 1980 and expanded in 1986, the city’s seafaring heritage is brought to life within the historic Albert Dock. The museum’s collections reflect the international importance of Liverpool as a gateway to the world, including its role in the transatlantic slave trade and emigration, the merchant navy and the RMS *Titanic*.

The Beatles Story
The Beatles Story is a visitor attraction dedicated to the 1960s rock group The Beatles.
The Waterfront

Liverpool’s skyline has been built up mostly in the last 10 years.

Pier Head and the Three Graces
For nearly a century the Three Graces - The Royal Liver Building, The Cunard Building and the Port of Liverpool Building - have defined one of the world’s most recognised skylines. These majestic buildings were conceived and constructed as visible symbols of Liverpool's international prestige, proud emblems of its commercial prowess.

The Museum of Liverpool
It is the newest addition to the National Museums Liverpool group having opened in 2011. The new venue tells the story of Liverpool and its people, and reflects the city’s global significance. The museum is housed in a new purpose-built building, designed by architects 3XN and engineers Buro Happold, on the Mann Island site at the Pier Head.

The Open Eye Gallery
Founded in 1977 Open Eye Gallery is an independent not-for-profit photography gallery based in Liverpool. The gallery is part of the new Mann Island development, a complex of three black buildings that sit between the Strand, the Canning dock and the new Museum of Liverpool.
But Liverpool is also famous for its Parks

**Princes Park** in Toxteth is a 45 hectare municipal park, 2 miles south east of Liverpool city centre. In 2009 it had its status upgraded to a Grade II Historic Park by English Heritage.

![Princes Park](image1.jpg)

**Sefton Park** is a public park in Liverpool, opened in 1872 and operated by Liverpool City Council. The park is designated Grade I by English Heritage and regularly plays host to music gigs and events. Palm House, a grade II listed glass domed conservatory sits within Sefton Park.

![Sefton Park](image2.jpg)

...And beaches

**Crosby Beach** is now the permanent home to ‘Another Place’, the sculpture by internationally acclaimed artist, Antony Gormley. The beach has been awarded the Quality Coast Award by Keep Britain Tidy.

![Crosby Beach](image3.jpg)

**Formby Beach** is glorious with dramatic sand dunes, surrounded by sweeping coastal pinewoods.
For all VSAC and ECVP delegates

General Conference Tickets (£5.00)

Delegates can purchase this discounted ticket at the ticket desk in the main TATE foyer, presenting the conference badge.
Bars & Restaurants

More information is on the online map on this page: http://ecvp.org/2015/venue.html

Bakchich Lebanese Restaurant
54 Bold Street, Liverpool, L1 4HR
Lebanese street food with a French twist. It serves a variety of Lebanese dishes including Shawarma, Falafel and baklava.
www.bakchich.co.uk

Bistro Jacques
37-39 Hardman Street, Liverpool, L1 9AS
A rustic restaurant that offers a selection of French favorites and specialties including baked camembert, pate de campagne, Coq Au Vin and Boeuf Bourguignon. On Mondays and Tuesdays they have a ‘wine and dine’ offer where you can get 2 courses and a bottle of house wine per person for only £16.95.
www.bistrojacques.com

Blackburne House Café
Blackburne Place, Liverpool, L8 7PE
An award winning café bar serving a reasonable priced range of international and vegetarian dishes prepared using local ingredients. This café can be located in the Georgian quarter close to the university.
www.blackburnehouse.co.uk

Cathedral Piazza Café
This café can be found at the steps of the Metropolitan Cathedral. The menu regularly changes though typical dishes include scouse, vegetarian curry, piri piri chicken, Panini and baked potatoes. Main courses are around £5.95.

Everyman Theatre and Restaurant
5-11 Hope Street, Liverpool, L1 9BH
A bistro situated in the basement of the Everyman theatre where you can have a meal or a drink before catching a show.
www.everymanplayhouse.com

Flute
35 Hardman Street, Liverpool, L1 9AS
An inexpensive pub that can be found about 5 minutes from the university campus.
www.fluteliverpool.co.uk

Fly in the Loaf
13 Hardman Street, Liverpool, L1 9AS
An award winning pub that serves a large number of real ales and specialist imported beers.
www.flyintheloaf.co.uk

Gusto Restaurant and Bar
Edward Pavillon, Albert Docks, Liverpool, L3 4AF
Located at the Docks approximately a 25-minute walk from the university campus. This restaurant offers a classic and contemporary Italian menu.
www.gustorestaurants.uk.com

Host
31 Hope Street, Liverpool, L1 9HX
Situated in Liverpool’s Georgian quarter next to the university campus. This Pan-Asian fusion restaurant offer meals inspired from around the globe.
www.host.co.uk

Kasbah Café Bazzar
72 Bold Street, Liverpool, L1 4HR
A Moroccan inspired restaurant on Bold Street less than a 10-minute walk from the university campus. The menu has all of the favorite and traditional dishes from Morocco including hummus, falafel, cous-cous and tagine.
www.kasbahcafebazaar.co.uk

Kimos
6 Myrtle Street, Liverpool, L7 7DP
Situated next to the University campus this great value Mediterranean eatery serves excellent kebabs and grill based cuisine.
www.kimosrestaurant.co.uk

Leaf
65-67 Bold Street, Liverpool, L1 4EZ
A unique independent teashop and bar.
www.thisisleaf.co.uk

Pen Factory
13 Hope Street, Liverpool, L1 9BQ
Another great value for money bistro situated between the two cathedrals on Hope Street.
www.pen-factory.co.uk
Shirley Valentines
109 Mount Pleasant, Liverpool, L3 5TF
An inexpensive sandwich shop closely situated to the university.
www.shirleyvalenties.co.uk

Spice Lounge
Atlantic Pavillion, Albert Docks, Liverpool, L3 4AE
This restaurant gives a taste of exquisite modern Indian cuisine.
www.spicelounge.uk.com

The Caledonia
22 Caledonia Street, Liverpool, L7 7DX
A historic Liverpool pub that serves the traditional Liverpool dish of scouse as well as real ales. It also features live music most nights.
www.thecaledonia利物浦.com

The Clove Hitch Bistro and Bar
23 Hope Street, Liverpool, L1 9BQ
This bistro and bar serves excellent fresh and locally sourced food and a great range of beers from around the globe. From Sunday to Thursday it has a theatre offer where you can get either 2 courses for £15.50 or 3 courses for £19.50.
www.theclovehitch.com

The Egg Restaurant Café
Top Floor, 16-18 Newington, Liverpool, L1 4ED
A vegetarian/vegan café that can be found in the loft of an old Victorian warehouse just off of Bold Street.
www.eggcafe.co.uk

The Kazimier Garden
32 Seel Street, Liverpool, L1 4JJ
An outdoor space that is one of the city’s most popular beer gardens in the summer.
www.thekazimier.co.uk/garden

The Philharmonic Dining Rooms
36 Hope Street, Liverpool, L1 9BX
A public house built in 1898 that is recorded in the National Heritage List for England. It is famous for being one of the most lavish and ornate pubs in the country. Here, you can enjoy a range of hearty classic British classic and real ales.
http://www.nicholsonspubs.co.uk/thephilharmonicdiningrooms利物浦/

The Quarter
10 Falkner Street, Liverpool L8 7PU
A vibrant Italian inspired restaurant that offers a selection of freshly made pizzas, sublime pasta dishes and desserts.
www.thequarter.uk.com

The Shipping Forecast
15 Slater Street, Liverpool, L1 1BW
A restaurant, bar and live music venue. It has a good selection of craft beers and wine, along with a huge choice of gin, rum and whisky.
www.theshippingforecast利物浦.com

The Smugglers Cove
Britannia Pavillion, Albert Dock, Liverpool, L3 4AD
Offers over 150 different world famous rums including a rum-based cocktail menu. The food menu is rustic deli style consisting of rotisserie, barbeque and some English favorites. They also have live music every night!
www.thesmugglerscove.uk.com

University based
Sydney Jones Library Café
Situated on the university campus next to the entrance of the Sydney Jones Library. This café serves Starbucks coffee, including teas, lattes and cappuccinos. It also has a wide choice of hot snacks and freshly prepared sandwiches.

Café on the square
Based in University Square above Blackwells Bookshop. This café provides a selection of hot and cold food and drinks including breakfast, traditional coffee, soups, salads and delicious cakes.

Vine Court Canteen
A convenient and cheap located university canteen for those staying in Vine Court offering breakfast, lunch and dinner.

Guild of students
The guild can be found at the heart of the university and contains various bars and cafes.
Display++

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- Linear light output
- Accurate CIE XYZ colour reproduction
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- Integrated analogue I/O

www.crs ltd.com/displays
Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu-Kobayashi-Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Aims and Scope

*Symmetry* (ISSN 2073-8994) is an international and interdisciplinary scientific journal. Our goal is to publish high-impact articles in the field of symmetry. There is no restriction on the length of the papers. The journal publishes reviews, regular research papers, communications and short notes. All submitted manuscripts undergo rigorous peer review prior to publication.

Author Benefits

- **Open Access**
  Unlimited and free access for readers

- **Thorough Peer-Review**

- **Coverage by Leading Indexing Services**
  SCIE-Science Citation Index Expanded (Thomson Reuters),
  MathSciNet (American Mathematical Society),
  Zentralblatt MATH (FIZ Karlsruhe), Scopus (Elsevier)

- **Rapid publication**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:00</td>
<td>Registration</td>
</tr>
<tr>
<td>9:00-10:00</td>
<td>Lecture A (Room A)</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Coffee/Pastry Break (Room A)</td>
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<tr>
<td>10:30-10:45</td>
<td>Break</td>
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<tr>
<td>10:45-11:45</td>
<td>Lecture B (Room B)</td>
</tr>
<tr>
<td>11:45-12:30</td>
<td>Lunch and Poster Session (Room B)</td>
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<tr>
<td>12:30-13:30</td>
<td>Registration</td>
</tr>
<tr>
<td>13:30-14:30</td>
<td>Lecture C (Room C)</td>
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<tr>
<td>14:30-15:00</td>
<td>Coffee/Pastry Break (Room C)</td>
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<tr>
<td>15:00-16:00</td>
<td>Lecture D (Room D)</td>
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<tr>
<td>16:00-16:45</td>
<td>Break</td>
</tr>
<tr>
<td>16:45-18:00</td>
<td>Poster Session (Room D)</td>
</tr>
</tbody>
</table>

*Note: Rooms A, B, C, D are designated for specific sessions and activities.*