



**Lille - 2017**

October 11-12:

Symposium

Image Perception and Visual Field Deficiency

October 12-13:

11<sup>th</sup> GDR Vision Meeting

# Program

## Symposium Image Perception and Visual Field Deficiency

### Wednesday 11:

- 12:45 Introduction
- 13:00 Keynote 1 – Allison McKendrick
- 14:00 Coffee
- 14:15 Keynote 2 – Carole Peyrin
- 15:15 Coffee
- 15:45 Keynote 3 – Michael B. Hoffmann
- 16:45 Coffee
- 17:05 Talk Session - Quentin Lenoble, Aurélie Calabrèse
- 18:30 End of the day

### Thursday 12:

- 09:00 Welcome
- 09:30 Keynote 4 – Ricardo Gameiro
- 10:30 Coffee
- 11:00 Keynote 5 – David Crabb
- 12:00 Lunch

## GDR Vision Meeting

### Thursday 12:

- 12:00 Welcome
- 13:15 Introduction
- 13:30 Keynote 1 – Suliann Ben Hamed
- 14:30 Talk Session 1 - Laura Dugue, Bilge Sayim, Eric Castet
- 15:30 Coffee
- 16:00 Talk Session 2 - Denis Pelisson, Mark Harwood, Cécile Vullings, Thérèse Collins, Jean Lorenceau, Anne Guerin-Dugue
- 18:00 Coffee
- 18:30 Keynote 2 – Natalie Hempel de Ibarra
- 19:30 End of the day
- 20:00 Dinner

### Friday 13:

- 09:00 Welcome
- 09:30 Keynote 3 – Jenny Read
- 10:30 Coffee – Posters
- 12:00 Talk Session 3 - Benoit Cottureau, Bruno Rossion, Ivo Vanzetta
- 13:00 Lunch – Posters
- 14:20 Talk Session 4 - Camille Breuil, Andrei Gorea, Claudio Simoncini, Nikos Gekas
- 15:40 Coffee – Business
- 16:00 End of the meeting

## Sponsored by

Laboratoire Psychologie de la Perception, UMR 8242, Université Paris Descartes  
Laboratoire de Psychologie et NeuroCognition, UMR 5105, Grenoble  
Laboratoire de psychologie cognitive, UMR 7290, Marseille  
Institut de neurosciences de la Timone, UMR 7289, Marseille  
Centre de Recherche en Neurosciences de Lyon, INSERM U1028, CNRS UMR5292, Lyon  
Centre de Recherche Cerveau & Cognition, UMR 5549, Toulouse  
Laboratoire des Systèmes Perceptifs, UMR 8248, ENS Paris  
SCALab, UMR 9193, Lille  
Laboratoire Vision, Action, Cognition, EA 7326, Paris

Université de Lille

Projet International de Coopération Scientifique - CNRS  
Maison Européenne des Sciences de l'Homme et de la Société

# Talks

## Image Perception and Visual Field Deficiency

### Wednesday 11

#### Wednesday 11, 13:00 - Keynote

##### **Contrast processing in ageing vision and glaucoma**

Allison McKendrick

*Clinical Psychophysics Unit, University of Melbourne*

#### Wednesday 11, 14:15 - Keynote

##### **Scene categorization in normal and pathological vision**

Carole Peyrin,

*Laboratoire de Psychologie et NeuroCognition, CNRS Grenoble*

#### Wednesday 11, 15:45 - Keynote

##### **Organization and function of the human visual system in congenital visual pathway abnormalities**

Michael B. Hoffmann

*Department of Ophthalmology, Visual Processing Laboratory, Otto-von-Guericke-University Magdeburg*

#### Wednesday 11, 17:05

##### **Can I pass through the door? A study with glaucoma patients**

Quentin Lenoble, Sébastien Szaffarczyk, Jean-François Rouland

*Sciences Cognitives et Sciences Affectives (France)*

#### Wednesday 11, 17:25

##### **A Vision Enhancement System to Improve Face Recognition with Central Field Loss**

Aurélie Calabrèse (1), Carlos Aguilar (2), Eric Castet (1)

*Laboratoire de Psychologie Cognitive (France), 2 - Bases, Corpus, Langage (France)*

### Thursday 12

#### Thursday 12, 9:30 - Keynote

##### **Exploration and Exploitation in Human Visual Processing**

Ricardo Gameiro

*Institut für Kognitionswissenschaft Universität Osnabrück*

#### Thursday 12, 11:00 - Keynote

##### **Glaucoma - through the eyes of the patient**

David Crabb

*City University of London*

# Talks

## GDR Vision Meeting

Thursday 12

**Thursday 12, 13:30 - Keynote**

**The spatial and temporal dynamics of attention: insights from the real-time decoding of the attentional spotlight**

Suliann Ben Hamed

*Centre de Neurosciences Cognitives, CNRS, Bron*

**Thursday 12, 14:30**

**Attention reorients at the theta frequency**

Mehdi Senoussi (1), Niko Busch (2), Laura Dugué (3)

*1 - ISAE-Supaéro (France), 2 - WWU Münster (Allemagne), 3 - Laboratoire Psychologie de la Perception (France)*

**Thursday 12, 14:50**

**Capturing appearance in crowded peripheral vision**

Bilge Sayim (1) (2), Natalia Melnik (2), Zeynep Yildirim (2), Daniel Coates (3)

*1 - SCALab, Université de Lille (France), 2 - Institute of Psychology, University of Bern (Suisse), 3 - University of Houston (États-Unis)*

**Thursday 12, 15:10**

**Crowding, visual span and reading speed in adults with dyslexia**

Eric Castet, Ambre Denis-Noël, Carlos Aguilar, Pascale Colé, Chotiga Pattamadilok

*Laboratoire de psychologie cognitive (France)*

**Thursday 12, 16:00**

**Cerebral substrates of immediate and lasting effects of adaptation of saccadic eye movements**

Denis Pelisson, Ouazna Habchi, Muriel Panouillères, Charles Hernoux, Alessandro Farne

*Centre de recherche en neurosciences de Lyon (France)*

**Thursday 12, 16:20**

**Pacing effects on saccades in the young, the old, and Parkinson's disease.**

Mark Harwood (1), Annabelle Blangero (2)

*1 - University of East London, UK (Royaume-Uni), 2 - City College of New York (États-Unis)*

**Thursday 12, 16:40**

**Reinforcement can reduce the size-latency phenomenon**

Cécile Vullings (1), Mark Harwood (2), Laurent Madelain (3) (1)

*1 - Univ. Lille, UMR 9193 - SCALab (France), 2 - Department of Psychology, University of East London, UK (Royaume-Uni), 3 - Institut de Neurosciences de la Timone (France)*

**Thursday 12, 17:00**

**Variability of memory-guided saccades in the human superior colliculus**

Thérèse Collins (1), Françoise Vitu (2)

*1 - Laboratoire Psychologie de la Perception (France), 2 - Laboratoire de psychologie cognitive (France)*

**Thursday 12, 17:20**

**CobEYE: projet d'étude épidémiologique de l'oculomotricité**

Lorenceanu Jean

*Institut de la Vision (France)*

#### Thursday 12, 17:40

##### **Enregistrement conjoint EEG et oculométrie : estimation des potentiels évoqués et application en exploration visuelle et en lecture**

Anne Guerin-Dugue (1), Emmanuelle Kristensen (1), Aline Frey (2), Nathalie Guyader (1), Hélène Devillez (3), Gelu Ionescu (1), Raphaëlle Roy (4), Bertrand Rivet (1)

1 - Grenoble Images Parole Signal Automatique (France), 2 - Cognitions Humaine et ARTificielle (France), 3 - Department of Psychology and Neuroscience (États-Unis), 4 - ISAE (France)

#### Thursday 12, 18:30 - Keynote

##### **Insect vision: when and why small body size matters**

Natalie Hempel de Ibarra

Centre for Research in Animal Behaviour (CRAB), University of Exeter

#### Friday 13

#### Friday 13, 9:30 - Keynote

##### **The neural basis of stereopsis: understanding how binocular disparity is encoded in primary visual cortex**

Jenny Read (presenting), Sid Henriksen, Dan Butts & Bruce Cumming

Institute of Neuroscience, Newcastle University

#### Friday 13, 12:00

##### **Emergence of binocular disparity selectivity through spike-timing dependent plasticity**

Tushar Chauhan, Timothée Masquelier, Alexandre Montlibert, Benoit R Cottureau

Laboratoire Cerco (France)

#### Friday 13, 12:20

##### **Fast and automatic visual categorization of faces in the human ventral occipito-temporal cortex with intracerebral recordings**

Bruno Rossion (1) (2), Corentin Jacques (1), Joan Liu-Shuang (1), Hélène Brissart (2), Sophie Colnat-Coulbois (2), Louis Maillard (2), Jacques Jonas (2)

1 - University of Louvain (Belgique), 2 - Centre Hospitalier Universitaire de Nancy (France)

#### Friday 13, 12:40

##### **Visual stimulation quenches global alpha range activity in awake primate V4**

Thomas Deneux (1), Timothée Masquelier, Maria Bermudez, Guillaume Masson, Gustavo Deco, Ivo Vanzetta (2)

1 - Unité de neurosciences intégratives et computationnelles (France), 2 - Institut de Neurosciences de la Timone (France)

#### Friday 13, 14:20

##### **Detecting color in natural scenes**

Camille Breuil, Simon Barthelmé, Nathalie Guyader

Grenoble Images Parole Signal Automatique (France)

#### Friday 13, 14:40

##### **Awareness of the outcome of self-initiated pointing actions**

Andrei Gorea

Laboratoire Psychologie de la Perception (France)

#### Friday 13, 15:00

##### **Spatial Integration for Perception and Smooth Pursuit Eye Movements depend on the Visual Stimulation.**

Claudio Simoncini

Institut de Neurosciences de la Timone (France)

**Friday 13, 15:20**

**Perceptual effects of adaptation to dynamically changing stimulus statistics**

Nikos Gekas (1), Kyle Mcdermott (2), Pascal Mamassian (1)

1 - Laboratoire des Systèmes Perceptifs (France), 2 - Vizzario, Inc. (États-Unis)

**Poster sessions**

**Friday 13, 10:30 and 13:00**

**Estimating and anticipating a dynamic probabilistic bias in visual motion direction**

Chloé Pasturel, Jean-Bernard Damasse, Anna Montagnini, Laurent Perrinet

*Institut de Neurosciences de la Timone (France)*

**Exploration des composantes de la perception lors d'une expérience mêlant art et science**

Laurent Perrinet (1), Etienne Rey

1 - Institut de Neurosciences de la Timone (France)

**Saccadic and Movement Reaction Time discrimination in humans**

Valentina Vencato (1) (2), Joan López-Moliner (3), Laurent Madelain (1) (2)

1 - SCALab, Lille (France), 2 - Institut de Neurosciences de la Timone (France), 3 - Universitat de Barcelona (Espagne)

**Perceived timing of a visual event is affected by eccentricity**

Ljubica Jovanovic, Pascal Mamassian

*Laboratoire des systèmes perceptifs, Département d'études cognitives, École normale supérieure, PSL Research University, CNRS, 75005 Paris, France (France)*

**Metacognition of temporal selection during the Attentional Blink**

Samuel Recht (1), Vincent De Gardelle (2), Pascal Mamassian (1)

1 - Laboratoire des systèmes perceptifs, Département d'études cognitives, École normale supérieure, PSL Research University, CNRS, 75005 Paris, France (France), 2 - Centre d'économie de la Sorbonne (France)

**Voluntary tracking the moving clouds: Effects of speed variability on human smooth pursuit**

Kiana Mansour Pour

*Institut de Neurosciences de la Timone (France)*

**Reward contingencies and smooth pursuit eye movements in healthy participants and Parkinson's disease**

Jean-Bernard Damasse (1), Miriam Spering (2), Anna Montagnini (1)

1 - Institut de Neurosciences de la Timone (France), 2 - Computer Science Department (Canada)

**Integrating motion predictive information across different time scales: an eye-movement and transcranial random noise stimulation (tRNS) study**

Anna Montagnini, Florian Herpich, Lorella Battelli

*Institut de Neurosciences de la Timone (France)*

**tereomotion processing in the non human primate brain**

Yseult Héjja-Brichard, Samy Rima, Jean-Baptiste Durand, Benoit R. Cottureau

*Centre de recherche cerveau et cognition (France)*

**The effect of conflicting binocular and monocular cues on stereoscopic acuity**

Anne-Emmanuelle Priot, Florian Domergue, Justin Plantier, Pascaline Neveu

*Institut de recherche biomédicale des armées (France)*

### **Temporal processing of scene gist between central and peripheral vision**

Clément Beugnet, Sébastien Szaffarczyk, Muriel Boucart  
*Unité de Recherche en Sciences Cognitives et Affectives (France)*

### **Saccadic gain modulation by manipulating a visual discrimination task**

Sohir Rahmouni (1), Anna Montagnini (2), Laurent Madelain (1) (2)  
*1 - Univ. Lille, CNRS, CHRU Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000 Lille, France (France), 2 - Institut de Neurosciences de la Timone (France)*

### **The attentional fields of visual search in healthy individuals and following bilateral superior parietal dysfunction: toward understanding visual forms of developmental dyslexia**

Laure Pisella  
*Centre de recherche en neurosciences de Lyon (France)*

### **How do we spatially and physiologically code other's emotional state?**

Alice Cartaud (1), Yann Coello (1), Tina Iachini (2), Gennaro Ruggiero (2)  
*1 - Univ. Lille, CNRS, CHU Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000 Lille (France), 2 - Second University of Naples-Caserta (Italie)*

### **Testing saccadic adaptation under naturally paced conditions**

Alexis Cheviet, Camille Farcy, Denis Pélisson  
*Centre de recherche en neurosciences de Lyon (France)*

### **Gesture parameters and goal processing during the recognition of actions among distractors: Evidence from eyetracking**

Jérémy Decroix, Solène Kalénine  
*Unité de Recherche en Sciences Cognitives et Affectives (France)*

### **Saccadic Adaptation Increases brain excitability : a MEG study**

Judith Nicolas (1), Aline Bompas, Romain Bouet, Olivier Sillan (1), Eric Koun, Christian Urquizar, Alessandro Farnè (2), Aurélie Bidet-Caulet (3), Denis Pelisson (3)  
*1 - Centre de recherche en neurosciences de Lyon (France), 2 - Centre de Recherche en Neurosciences de Lyon (France), 3 - Centre de recherche en neurosciences de Lyon (France)*

### **Does eye dominance strength modulate the global effect on saccade accuracy?**

Jérôme Tagu (1), Karine Doré-Mazars (1), Dorine Vergilino-Perez (1) (2)  
*1 - Vision Action Cognition (France), 2 - Institut Universitaire de France (France)*

### **Development of oculomotor control from infants to toddlers: temporal and spatial parameters of voluntary saccades**

Christelle Lemoine-Lardennois, Nadia Alahyane, Mallauray Hamon, Clara Ferrari, Karine Doré-Mazars  
*Vision Action Cognition (France)*

### **Saccades toward faces are not only faster but also larger**

Nathalie Guyader (1), Camille Breuil (1), Alan Chauvin (2), Carole Peyrin (2), Anne Guérin-Dugué (1), Muriel Boucart (3)  
*1 - Grenoble Images Parole Signal Automatique (France), 2 - Laboratoire de Psychologie et NeuroCognition (France), 3 - Laboratoire des Sciences Cognitives et Sciences Affectives (France)*



**Scale invariance does not hold for high dynamic range images, but is reestablished by early retinal nonlinearities**

Antoine Grimaldi, David Kane, Marcelo Bertalmío  
*Universitat pompeu fabra (Espagne)*

**Consequences of motor actions and social context determine the representation of peripersonal space**

Yann Coello (1), François Quesque (2), Maria Francesca Gigliotti (1), Ekaterina Shemakova (1), Laurent Ott (1), Jean-Luc Bruyelle (1)  
*1 - Univ. Lille, CNRS, CHU Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000 Lille (France), 2 - Inserm U1028 - CNRS UMR 5292 - University Lyon 1 (France)*

**Neurophysiological correlates of conflict between gesture representations during object perception**

Yannick Wamain, Aïsha Sahai, Jérémy Decroix, Yann Coello, Solène Kalénine  
*Univ. Lille, CNRS, CHU Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000 Lille (France)*

**Calibration of peripheral perception of shape with and without saccadic eye movements**

Céline Paeye (1), Thérèse Collins (2), Patrick Cavanagh (3), Arvid Hergig (4) (5)  
*1 - Vision Action Cognition (France), 2 - Laboratoire Psychologie de la Perception (France), 3 - Department of Psychological and Brain Sciences (France), 4 - Department of Psychology, Bielefeld University (Allemagne), 5 - Cognitive Interaction Technology - Excellence Cluster (Allemagne)*

**Reading without spaces revisited: The role of sentence-level constraints**

Jonathan Mirault, Joshua Snell, Jonathan Grainger  
*Laboratoire de psychologie cognitive (France)*

**Retrospective cueing affects conscious access to masked words**

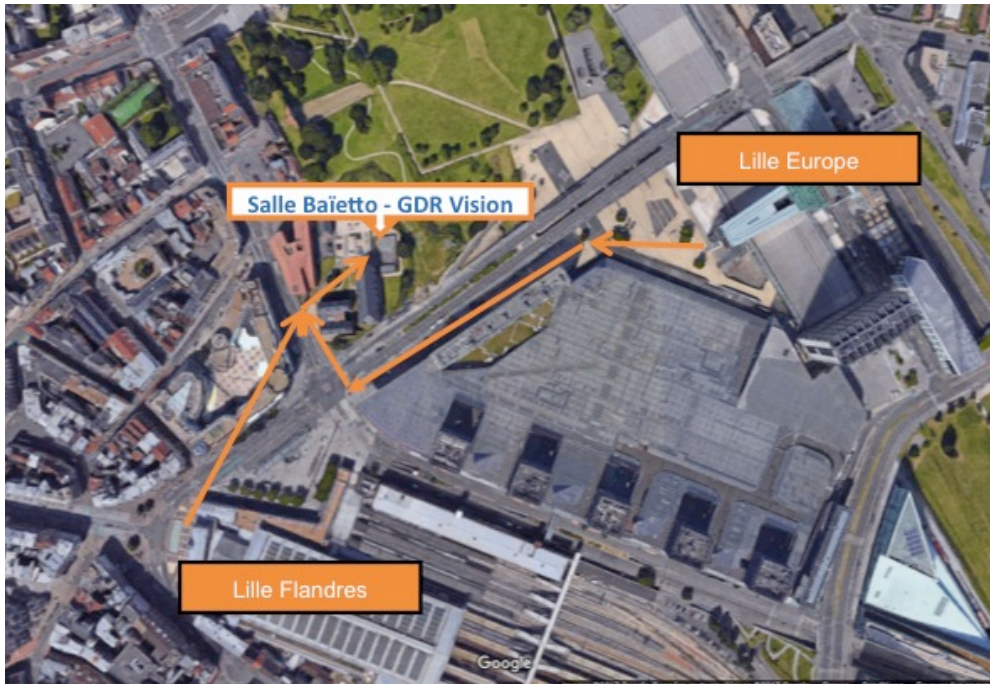
Daphné Rinsky-Robert, Claire Sergent  
*Laboratoire Psychologie de la Perception (France)*

**Short-term monocular deprivation could be driven by an interocular contrast gain control mechanism**

Alexandre Reynaud, Jiawei Zhou, Robert Hess  
*McGill Vision Research (Canada)*

**Directions for Wednesday 11 and Thursday 12:**

Salle Baïetto Maison Européenne des Sciences de l'Homme et de la Société (USR 3185) 2 rue des Canonniers 59002 Lille



**Directions for Friday 13:**

Amphi B7, Université Lille SHS, Pont-de-bois, Villeneuve d'Ascq

