

## WORKSHOP ON AUDIOVISUAL SPEECH PROCESSING AND LANGUAGE LEARNING



### Program

**28** Nov 2016

09:30 - 10:00 **Nuria Sebastian, Pompeu Fabra University: Opening**  
10:00 - 11:00 **Olivier Pascalis, CNRS-Grenoble University: Multisensory Representation of Gender by Infants**

**Nuria Sebastian: Chair morning sessions**

11:00 - 11:30 **Coffee**  
11:30 - 12:30 **Ferran Pons, University of Barcelona: What's in a mouth? Audiovisual redundancy during language acquisition**  
12:30 - 13:30 **Mathilde Fort, Pompeu Fabra University: Emergence of audiovisual associations in infancy: the role of language specific experience**  
13:30 - 14:30 **Lunch Break**  
14:30 - 15:30 **Kaisa Tiippana, University of Helsinki: Audiovisual speech training of school-aged children with specific language impairments (SLI)**

**Mathilde Fort: Chair afternoon sessions**

15:30 - 17:00 **Poster Session**  
17:00 - 17:30 **Coffee**  
17:30 - 18:30 **Mairead MacSweeney, University College of London: The relationship between speechreading and reading in deaf children**  
20:30 **Social Event, Dinner at the Showroom-concept-store SA Tramuntana**

**29** Nov 2016

09:30 - 10:30 **Salvador Soto-Faraco, Pompeu Fabra University: The Role of Attention in Audio-Visual Speech Integration**

**Lynne Bernstein: Chair morning sessions**

10:30 - 11:30 **Jean-Luc Schwartz, Grenoble Institute of Technology: Audiovisual speech binding**  
11:30 - 12:00 **Coffee**  
12:00 - 13:00 **Lynne Bernstein, George Washington University: Individual Differences in Visual Speech Perception, Visual Speech Perceptual Learning, and Visual Speech Enhancement to Audiovisual Speech Perception in Noise**

**Jean-Luc Schwartz: Chair afternoon sessions**

13:00 - 13:30 **Roundtable and closing remarks**

## WORKSHOP ON AUDIOVISUAL SPEECH PROCESSING AND LANGUAGE LEARNING

LANGUAGE  
LEARNING

*A Journal of Research in Language Studies*

### Poster Session

**28** Nov 2016

15:30 - 17:00

#### 1. A short training with beat gestures promotes immediate gains in children's narrative discourse abilities

Ingrid Vilà<sup>1</sup>, Alfonso Iguada<sup>1</sup>, Pilar Prieto.<sup>1,2</sup>

1. Departament de Traducció i Ciències del Llenguatge, Universitat Pompeu Fabra, Barcelona, Spain

2. Institució Catalana de Recerca i Estudis Avançats, ICREA, Barcelona, Spain

#### 2. Audiovisual speech speeds up on-line language processes during spoken sentence comprehension

Angèle Brunellière<sup>1</sup>, Laurence Delrue<sup>2</sup>, Salvador Soto-Faraco<sup>3,4</sup>, Alice Foucart.<sup>3</sup>

1. Univ. Lille, CNRS, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000 Lille, France

2. Univ. Lille, CNRS, UMR 8163 - STL - Savoires Textes Langage, F-59000 Lille, France

3. Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain

4. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

#### 3. Lip-reading under optimal conditions to estimate the upper bound of visual speech recognition

Adriana Fernández López, Federico Sukno.

Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona, Spain.

#### 4. The effects of beat gestures and prosody in information memorization by preschool children and adults

Judith Llanes Coromina<sup>1</sup>, Olga Kushch<sup>1</sup>, Pilar Prieto.<sup>1,2</sup>

1. Departament de Traducció i Ciències del Llenguatge, Universitat Pompeu Fabra, Barcelona, Spain

2. Institució Catalana de Recerca i Estudis Avançats, ICREA, Barcelona, Spain

#### 5. BABYRHYTHM: Oscillatory Rhythmic Entrainment and the Foundations of Language Acquisition

Brusini, Perrine, Attaheri, Adam, Flanagan, Sheila, Mead, Natasha, Goswami, Usha.

Centre for Neuroscience in Education, University of Cambridge

#### 6. Automatic Inner Lips Tracking Based on CLNF and French Words and Vowels Visual Recognition

Li Liu<sup>1,2</sup> Gang Feng<sup>1,2</sup> Denis Beautemps.<sup>1,2</sup>

1. Univ. Grenoble Alpes, GIPSA-lab, F-38040 Grenoble, France

2. CNRS, GIPSA-lab, F-38040 Grenoble, France

#### 7. Audiovisual speech enhances lexical segmentation of speech

Anahita Basirat & Angèle Brunellière.

Univ. Lille, CNRS, UMR 9193 – SCALab, Lille, France

#### 8. Toward a measure of auditory-visual integration efficiency

Hans Colonius.

Department of Psychology and Cluster of Excellence "Hearing4all", University of Oldenburg, Germany

#### 9. Hearing Aid Experience Affects the Sound-Induced Flash Illusion

Anja Gieseler, Maike Tahden, Hans Colonius.

Department of Psychology and Cluster of Excellence "Hearing4all", University of Oldenburg, Germany

#### 10. Observing and Producing Pitch Gestures enhance the Acquisition of Mandarin Chinese Tones and Words

Florence Baills<sup>1</sup>, Nerea Suárez-González<sup>1</sup>, Santiago González-Fuente<sup>1</sup>, Pilar Prieto.<sup>1,2</sup>

1. Departament de Traducció i Ciències del Llenguatge, Universitat Pompeu Fabra, Barcelona

2. Institució Catalana de Recerca i Estudis Avançats, ICREA, Barcelona, Spain

### **11. Altered gaze behavior during face processing in patients with Prader-Willi syndrome**

J. Debladis<sup>1,2</sup>, M. Valette<sup>3</sup>, K. Strelnikov<sup>1,2</sup>, C. Mantoulan<sup>3</sup>, V. Laurier<sup>5</sup>, C. Molinas<sup>3</sup>, M. Tauber<sup>3,4</sup> and P. Barone<sup>1,2</sup>

1. Cerveau and Cognition UMR5549, CNRS Toulouse, France
2. Université Toulouse, CerCo, Université Paul Sabatier, Toulouse, France
3. Centre de Référence du Syndrome de Prader-Willi, Hôpital des Enfants, Toulouse, France
4. INSERM, Centre de Physiopathologie de Toulouse-Purpan UMR 1043 3, Toulouse, France
5. Hôpital Marin d'Hendaye, France

### **12. Exploring the role of visual information in a natural speech segmentation task**

Maria Teixidó, Laura Bosch.

Research in Attention, Perception and Language Acquisition, Universitat de Barcelona

### **13. Anterior cingulate cortex responsiveness to audiovisual conflict in the McGurk illusion**

Luis Morís Fernández<sup>1</sup>, Emiliano Macaluso<sup>2</sup>, Salvador Soto-Faraco<sup>1,3</sup>

1. Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain
2. Neuroimaging Laboratory, Fondazione Santa Lucia, Rome, Italy
3. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

### **14. Epistemic meaning is first communicated through gesture, face and prosody**

Iris Hübscher<sup>1</sup>, Laura Vincze<sup>2</sup>, Pilar Prieto<sup>3,1</sup>

1. Departament de Traducció i Ciències del Llenguatge, Universitat Pompeu Fabra, Barcelona, Spain
2. Dipartimento di Filosofia, Comunicazione e Spettacolo, Università degli Studi Roma, Italy
3. Institució Catalana de Recerca i Estudis Avançats, ICREA, Barcelona, Spain

### **15. Hand gestures as visual prosody: BOLD responses to audiovisual alignment are modulated by the communicative nature of the stimuli**

Emmanuel Biau<sup>1</sup>, Luis Morís Fernández<sup>2</sup>, Henning Holle<sup>3</sup>, César Avila<sup>4</sup>, Salvador Soto-Faraco<sup>2,5</sup>

1. Basic & Applied NeuroDynamics Lab (Band lab), Maastricht University, Netherlands
2. Multisensory Research Group, Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain
3. Department of Psychology, University of Hull, UK
4. Department of Psychology, Universitat Jaume I, Castelló de la Plana, Spain
5. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

### **16. Spontaneous gestures modulate speech processing through phase resetting of theta neural oscillations**

Emmanuel Biau<sup>1</sup>, Mireia Torralba<sup>2</sup>, Lluís Fuentemilla<sup>3,4</sup>, Ruth de Diego Balaguer<sup>3,4</sup> and Salvador Soto-Faraco<sup>2,5</sup>

1. Basic & Applied NeuroDynamics Lab (Band lab), Maastricht University, Netherlands
2. Multisensory Research Group, Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain
3. Department of Basic Psychology, University of Barcelona, Barcelona, Spain
4. Bellvitge Research Biomedical Institute (IDIBELL), Cognition and Brain Plasticity Unit, Barcelona, Spain
5. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

### **17. Speak my language and I will remember your face better: An ERP study**

Jesús Bas<sup>1</sup>, Cristina Baus<sup>1</sup>, Marco Calabria<sup>1</sup> & Albert Costa<sup>1,2</sup>

1. Center for Brain and Cognition, CBC, Universitat Pompeu Fabra, Barcelona (Spain)
2. Institució Catalana de Recerca i Estudis Avançats (ICREA)

### **18. Do movement verbs and acoustic pitch share the spatial representation?**

Irene Fernandez-Prieto<sup>1,3,5</sup>, Sara Rodríguez-Cuadrado<sup>2</sup>, Charles Spence<sup>3</sup>, Ferran Pons<sup>4</sup>, Jordi Navarra<sup>1,4</sup>

1. Fundació Sant Joan de Déu, Hospital Sant Joan de Déu, Barcelona (Spain)
2. Faculty of Education, Edge Hill University, Ormskirk, Lancashire (UK)
3. Crossmodal Research Laboratory, Department of Experimental Psychology, University of Oxford, Oxford (UK)
4. Department of Cognition, Development and Educational Psychology, University of Barcelona, Barcelona (Spain)
5. Institute of Neurosciences, University of Barcelona, Barcelona (Spain)

### **19. The effect of Language Categorization on Face Perception**

Elisa Ruiz-Tada<sup>1</sup>, Cristina Baus<sup>1</sup>, Albert Costa<sup>1,2</sup>

1. Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain.
2. Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

### **20. The role of language distance on selective attention to a talking face**

Joan Birules, Nari Seo, Laura Bosch, Ferran Pons.

Department of Cognition, Development and Educational Psychology, Universitat de Barcelona, Barcelona, Spain.

## NEARBY RESTAURANTS AND BARS

1. **Cafeteria del Campus de Poblenou** (in the same building)  
Half Menu: around 5.5 €, Full menu: around 7€
2. **Nanaya**  
Japanese restaurant. Menu: 9-12 €.
3. **Restaurante L'Aldilà**  
Italian restaurant. Menus from 8 to 14€
4. **Muns**  
Argentinian restaurant, vegetarian-friendly.  
Menu: 6-15€
5. **Swad**  
Indian, vegetarian-friendly, Menu from 6 to 20 €.
6. **Sopa Roc Boronat**  
Vegetarian restaurant, half menu: 6€, full menu: 10€.
7. **Súper**  
Mediterranean, menus 6 to 10€. Vegetarian-friendly  
take out dishes.
8. **Catacroquet**  
Traditional restaurant. Menu around 10€.
9. **La Broqueta**  
Traditional restaurant. Menu around 10€.
10. **Restaurante Sitar Barcelona**  
Indian restaurant, vegetarian-friendly . Menu: 10€.
11. **Restaurant La Forquilla**  
Traditional restaurant. Menu around 15€.



## SOCIAL EVENT – SA TRAMUNTANA

17 min (1.4 km)

via Rambla del Poblenou

Use caution - may involve errors or sections not suited for walking

**Carrer de Roc Boronat, 138**

08018 Barcelona

- ↑ Head southeast on Carrer de Roc Boronat toward Carrer de Tànger  
190 m
- ↶ Turn left onto Carrer de Sancho de Àvila  
280 m
- ↷ Turn right onto Rambla del Poblenou  
Go through 2 roundabouts  
550 m
- ↶ Turn left toward Rambla del Poblenou  
17 m
- ↷ Turn right at Carrer de Lluïl  
17 m
- ↶ Slight left onto Rambla del Poblenou  
Go through 1 roundabout  
250 m
- 📍 At the roundabout, take the 1st exit onto Carrer del Dr. Trueta  
Destination will be on the left  
61 m

**Sa Tramuntana**

Carrer del Doctor Trueta, 225, 08005 Barcelona

