

# MARC RECASENS – Curriculum Vitae

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## Personal Information

**Ph.D. Student:** Marc Recasens Fusté  
**Date of birth:** 4<sup>th</sup> February, 1986  
**Pace of birth:** Barcelona, Spain  
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## Education

- 2004 – 2009 **Bachelor in Psychology**, University of Barcelona.  
Practical training developed at the *Brainlab - Cognitive Neuroscience Research Group* with special distinction.  
GPA: 2.36/4
- 2009 – 2011 **Master in Neurosciences**, University of Barcelona.  
GPA: 8.7/10
- 2010 – 2014 **Ph.D. student in the Biomedicine program**, University of Barcelona.  
Special interest in subjects from the area of Cognitive Neuroscience (Attention, Perception, Psychophysiology, Cognitive Neuropsychology, Psychobiology).

## Employment and Research Activities

- 2010 **Research collaboration fellowship** with the *Brainlab - Cognitive Neuroscience Research Group*. Training on EEG and ERP analysis. Supervisors: Dr. Prof. Carles Escera, and Dr. Sabine Grimm. Research project: 2009SGR11.
- 2010 **Accreditation as Animal Experimentation Research Personnel**. Training in the *Castilla y León Neuroscience Institute (INCYL)*. Supervisor: Dr. Manuel Sanchez Malmierca.

- 2011            **Research Collaboration** with the *Research Group in Brain, Affection and Cognition (CEACO)*, Autonomous University of Madrid.  
Training on source localization of brain signals using spatial filtering analysis and magnetoencephalography (MEG). Supervisors: Dr. Luis Carretié and Dr. Almudena Capilla.
- 2012            **Research Collaboration** with the *Institut für Biomagnetismus und Biosignalanalyse (IBB)*, Westfälische Wilhems – Universität Münster.  
Research on MEG source analysis of auditory evoked responses. Supervisor: Dr. Prof. Christo Pantev.
- 2010 – 2014   **Pre-doctoral Fellowship**, at the *Brainlab - Cognitive Neuroscience Research Group*, department of Psychiatry and Clinical Psychobiology, University of Barcelona. Currently under preparation of the Ph.D. Thesis: “*Cerebral sources of auditory ultra-fast novelty responses*”. Supervisor: Dr. Prof. Carles Escera.  
**Proposed Thesis defense date: October 2014.**
- 2014 – 2015   **Associate Professor**, at the Faculty of Psychology, University of Barcelona.  
Covered Courses: Psychophysiology and Clinical Psychophysiology.

## **Additional Professional Activity**

- **Teacher** for undergrad students during 2 years. Course of *Psychophysiology*. Faculty of Psychology, University of Barcelona (2013-2014).
- **Teacher** for master students. Seminar about “Magnetoencephalography”. Course of “*Brain Waves and Cognition*”, Master of Neuroscience, University of Barcelona (2013-2014).
- **Collaboration as clinical psychologist** in private practice. Supervised by: Dr. Jaume Guilera, child and adolescent psychiatrist (2008-2011).
- Mentor at educational and free-time program for disadvantaged children. *Federació Acell* (2011).

## Awards and Honors

- **Pre-doctoral Fellowship (PFI)** of the Spanish Ministry of Economy and Competitiveness (2010-2014).
- **Scholarship for research stays abroad** of the RNCC - *Thematic Network on Cognitive Neuroscience* (2011).
- **Scholarship for research stays abroad** of the Spanish Ministry of Economy and Competitiveness (2012).
- **Poster presentation award 2010** of the 5<sup>th</sup> Workshop of the RNCC (2010).

## Technical Skills and Languages

- Extensive experience in handling and manipulation of **EEG recording equipments**: caps, external electrodes, amplifier and headbox of NeuroScan, ANT Software.
- Extensive experience in **M/EEG time-domain analysis (ERP/F) and source reconstruction analysis**. Proficient handling of analysis tools: NeuroScan and ANT software (*Eprobe, ASA, FieldTrip, EEGlab, SPM8, Brainstorm*).
- **Experimental tasks programming** with *Psychtoolbox* application for *MatLab, Eprime* and *Presentation*.
- **MEG data acquisition** with *4D-Neuroimaging* and *CTF* equipments. Preparation of subjects and materials for MEG recording. Electrode location digitization with *Polhemus*,
- **Programming skills** on *Matlab*.
- **Statistical analysis** on SPSS, SPM8, FieldTrip (non-parametric statistics)
- Fluent in **English, Spanish, and Catalan**, basic **German**.

## Publications

Grimm S, **Recasens M**, Althen H, Escera C (2012) Ultrafast tracking of sound location changes as revealed by human auditory evoked potentials. *Biol Psychol* 89(1):232-9

Leung S, **Recasens M**, Grimm S, Escera C (2013) Electrophysiological index of acoustic temporal regularity violation in the middle latency range. *Clin Neurophysiol* 124(12):2397-2405

**Recasens M**, Grimm S, Capilla A, Nowak R, Escera C (2014) Two Sequential Processes of Change Detection in Hierarchically Ordered Areas of the Human Auditory Cortex. *Cereb Cortex* 24(1):143-153

**Recasens M**, Grimm S, Wollbrink A, Pantev C, Escera C (2014) Encoding of nested levels of acoustic regularity in hierarchically organized areas of the human auditory cortex. *Hum Brain Mapp* (in press) doi:10.1002/hbm.22582

## Ad Hoc Reviewer

Plos One

Journal of Neurophysiology

Neuroimage

## Participation in Conferences

5/07/2014 IX FENS Forum of Neuroscience – Milan (Italia)  
Poster: *Neuronal generators underlying sensory memory-trace formation: an MEG study*

12/12/2013 I. Leipzig Prediction in Audition Workshop (LPiAW) – Leipzig (Alemania)  
Poster: *Encoding local and global regularity in distinct areas of the auditory cortex: a MEG study*

16/06/2013 IX Annual meeting of the Organization on Human Brain Mapping (HBM) – Seattle (USA)  
Poster: *Pitches & Patterns: Distinct encoding mechanisms for different acoustic regularity levels*

- 27/05/2013 VII meeting of the PANS project (ERANET-NEURON) – Empúries (Spain)
- 22/11/2012 V Brainglot Workshop – Vitoria (España)  
Poster: *Pitches & Patterns: Distinct encoding mechanisms for different regularity levels*
- 03/05/2012 VI Conference on Mismatch Negativity (MMN) and its Clinical and Scientific Application – New York City (USA)  
Poster: *Breaking of acoustic temporal regularities as indexed by Middle-Latency Response and the Mismatch Negativity*
- 24/02/2012 First international workshop on segregation and integration in music and language (SIMAL 2012) – Tübingen (Alemania)  
**Oral communication:** *Hierarchic organization of auditory change detection in the human brain*
- 16/01/2012 IV meeting of the PANS project (ERANET-NEURON) – Ein Gedi (Israel)  
**Oral communication:** *New pilot data on early novelty detection in humans*
- 24/11/2011 IV Brainglot Workshop – Vitoria (España)  
Poster: *Cortical localization of early and late auditory change detection related areas*
- 26/06/2011 XVII Annual meeting of the Organization on Human Brain Mapping (HBM) – Quebec City (Canadá)  
Poster: *Localization of auditory change detection sources in the human brain: an MEG study.*
- 14/06/2011 VII Reunión de la Red Temática de Neurociencia Cognitiva - VI Workshop sobre Avances en el Estudio de la Actividad Cerebral – Sevilla (España)  
Poster: *Localization of auditory change detection sources in the human brain: an MEG study*
- 15/09/2010 VII Congreso de la Sociedad Española de Psicofisiología y Neurociencia Cognitiva y Afectiva (SEPNECA) – Valencia (España)  
Poster: *Electrophysiological evidence for a multi-stage organization of frequency change detection.*

8/07/2010 VI Reunión de la Red Temática de Neurociencia Cognitiva -  
V Workshop sobre Avances en el Estudio de la Actividad  
Cerebral – Murcia (España)  
Poster: *Electrophysiological evidence for an early change  
detection reflected by modulations of the middle-latency  
evoked potentials.*

## References

### **Dr. Carles Escera, Ph.D.**

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### **Dr. Christo Pantev, Ph.D.**

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### **Dr. Sabine Grimm Ph.D.**

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