

Alice Bollini

Email: alicebollini@hotmail.com

Nationality: Italian

Education

- 2017 **PhD in Neuroscience, Psychological and Psychiatric Sciences**
University of Verona, Department of Neurological and Movement Sciences
Section of Physiology and Psychology , Verona , Italy
Supervisor: Carlo Alberto Marzi

Neuronal correlates of visual awareness in healthy participants and hemianopic patients.

Investigation of the EEG correlates of visual awareness while participants perform a discrimination task or during resting state:

Analysis of ERPs, Time-Frequency, Source reconstruction and Functional Connectivity.

- 2014 **License to practice Psychology (Section A)**
University of Florence, Florence, Italy
- 2009 - 2012 **Master's Degree in Psychology** curriculum "Experimental Psychology"
University of Florence, Florence, Italy
110/110 cum laude
- 2006 - 2009 **Bachelor's Degree in General and Experimental Psychological Sciences**
University of Florence, Florence, Italy
106/110

Experience

- Present **PostDoc Researcher**
IRCCS Centro San Giovanni di Dio, Fatebenefratelli, Brescia
Cognitive Neuroscience Section

Study of the effects of non-invasive brain on cortical networks during motor and perceptual tasks and their contributions to learning.:

Application of non-invasive brain stimulation techniques to investigate cognitive functions, such as visual and motor learning, in healthy participants and MS patients.

Analysis of TEPs, Time-Frequency responses, Connectivity.

- 2017 **Researcher**
National Institute of Neuroscience, Verona
Supervisor: Carlo Alberto Marzi

Study of Visual Evoked Potentials in Patient with Visual areas Impairment:

Investigation on how a stimulus presented in the blind hemifield influences the perception of moving stimuli and the perceptual awareness.

Analysis of ERPs, Time-Frequency responses, Source Reconstruction , Lesion Reconstruction and Connectivity.

- February 2016 - August 2016 **Visiting Researcher**
MRC Cognition and Brain Sciences Unit, Cambridge, UK
Supervisor: Duncan Astle

Effects of a STM training on the Resting-State networks:

Study of individual differences in STM capacity and the influence of three different kinds of cognitive training in healthy subjects and their correlation with MEG Resting state.

Analysis of large dataset, MEG source reconstruction, time-frequency, GLM and functional connectivity.

- 2012 - 2013 **Research Assistant , Post-graduate Trainee**
University of Florence - Neurofarba department, Cognitive
Psychophysiology laboratory, Florence, Italy
Supervisor: Maria Pia Viggiano

Research activities:

- 1) Use of neurophysiological techniques like EEG and TMS
- 2) ERPs study about face attractiveness
- 3) Statistical analyses

- October 2012 - April 2013 **Placement**
IFCA I Glicini (Neurorehabilitation Unit), Florence, Italy
Supervisor: Alberto Baroni

Clinical activities:

- 1) Neuropsychological assessment of brain-damage patients
- 2) Neuropsychological rehabilitation
- 3) Experimental research about trajectory and search strategy in neglect patient
- 4) Use of augmented reality system device for neglect patient

Skills

Research Skills:

- MEG/EEG recording
- Experimental design, Stimuli creation
- Data analysis , Statistics, MEG-EEG analysis, Functional Connectivity
- Perception, Attention, Awareness, Working Memory
- Neuropsychological assessment

Computer Skills:

- Programming: Matlab , Psychtoolbox, E-Prime.
- Data Analysis: SPM, Fieldtrip, EEGLAB, Brain Vision, FSL, MRICro, IBM SPSS
- Other: Adobe Suite, Microsoft Office, Corel Suite

Language:

- Italian (native)
- English (fluent)
- Spanish (intermediate user)

Publications and Presentations

Journal Papers:

- Bollini A., Sanchez-Lopez J., Savazzi S., Marzi C.A. Lights from the dark: Neural responses from a blind visual hemifield. *Front Neurosci.* 2017;11:290. DOI: 10.3389/fnins.2017.00290.
- Peru A., Bollini A., Costanzo S., Dainelli M., Landucci L., Pezzatini D., Del Bimbo A., Viggiano M.P. Towards a dynamic assessment of unilateral spatial neglect. *The Open Psychology Journal* 10(1):71-80 · 2017 DOI: 10.2174/1874350101710010071

Conference Posters:

- Bollini A., Sanchez-Lopez J., Savazzi S., Marzi C.A. "Visual ERPs responses from a blind visual hemifield." XXXV European Workshop in Cognitive Neuropsychology , Brixen BZ, January 2017.
- Bollini A., Sanchez-Lopez J., Savazzi S., Marzi C.A. "The nature of visual experience in Blindsight type II: evidence from EEG in a hemianopic patient." SIFP XXIV National Congress, Milan, October 2016.
- Bollini A., Sanchez-Lopez J., Savazzi S., Marzi C.A. "Dall'Oscurità alla luce: risposte neurali provenienti dal campo "cieco. AIP Annual Congress, Roma, September 2016.
- Bollini A., Sanchez-Lopez J., Pedersini C.A., Moro S., Savazzi S., Marzi C.A. "Neural correlates of visual perception in the blind field of hemianopic patients." SINP Annual Meeting, Padua, November 2015.

- Bollini A., Sanchez-Lopez J., Pedersini C.A., Moro S., Savazzi S., Marzi C.A. “Brain dynamics of visual awareness in the affected field of a Hemianopic patient.” EBBS-EBPS Joint Meeting, Verona, September 2015
- Bollini A., Sanchez-Lopez J., Pedersini C.A., Moro S., Savazzi S., Marzi C.A. “Neural correlates of visual perception in the blind field of hemianopic patients.” Concepts, Actions, and Objects Workshop, Rovereto, May 2015.
- Bollini A., Sanchez-Lopez J., Pedersini C.A., Moro S., Savazzi S., Marzi C.A. “Brain dynamics of visual awareness in the affected field of a Hemianopic patient.” EBPS-EBBS Joint Meeting, Verona, September 2015

Conference Talks:

- Bollini A., Sanchez-Lopez J., Savazzi S., Marzi C.A. “Visual ERPs responses from a blind visual hemifield.” XXXV European Workshop in Cognitive Neuropsychology , Brixen BZ, January 2017.
- Bollini A., Sanchez-Lopez J., Marzi C.A.. “Electrophysiological Correlates of Visual Imagery.” Cognitive Science Arena (CSA). Brixen BZ , February 2015

Advance Training

- **Donders MEG/EEG Tool-kit**, 3-7/04/2017, Nijmegen, NL
- **MEG Operator Qualification**, MRC CBU, Cambridge, UK
- **MEG Researcher Qualification**, MRC CBU, Cambridge, UK
- **20th EEGLAB Workshop**, 1-4/09/2015, Sheffield, UK.
- Summer School: **AIP School “ Neuroscience and Imaging Methodology”**, 23-26/05/2014, Chieti, Italy

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