






## PERSONAL INFORMATION

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### FABIO MASINA

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-  <https://scholar.google.it/citations?user=TUzvi2UAAAAJ&hl=it>

## CURRENT POSITION

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### Postdoctoral researcher - IRCCS San Camillo

Via Alberoni 70, Venice Lido (Italy)  
Researcher at Magnetoencephalography and Neurophysiology Lab.

## WORK EXPERIENCE

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Jan 2019-Jan 2020

### Postdoctoral researcher at the Human Inspired Technologies Research Center - University of Padua

Research project: "Sistema Domotico IoT Integrato ad Elevata Sicurezza Informatica per Smart Building". Advisors: Prof Luciano Gamberini and Prof. Daniela Mapelli, Department of General Psychology, University of Padua (Italy).

## TEACHING EXPERIENCE

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Apr 2020

Workshop: "Neuropsychological applications of Non-invasive Brain Stimulation". MSc course on Neuroscience and Neuropsychological Rehabilitation, Faculty of Psychology, University of Padua, Italy.

Nov 2019

Introduction to EEG analysis and ERP analysis with EEGLAB. Advanced Course for Research, held at Department of General Psychology. University of Padua, Italy.

Dec 2018

EEG pre-processing and ERP analysis with EEGLAB. Advanced Course for Research, held at Department of General Psychology. University of Padua, Italy.

## EDUCATION

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Sep 2015-Sep 2018

PhD Defense: Feb 2019

### PhD student in Cognitive Neuroscience

**Brain, Mind and Computer Science PhD course, University of Padua (Italy).**

Thesis title: "Behavioral and Neurophysiological Modulation of Error-Related Processes". Supervisor: Prof. Daniela Mapelli.

Oct 2012-Dec 2014

### Master's degree in Neuroscience and Neuropsychological Rehabilitation, University of Padua (Italy).

Thesis title: "Error Awareness and Cognitive Reserve: Exploring the Right Hemisphere Hypothesis". Supervisor: Prof. Daniela Mapelli.  
Final grade: 110/110 cum laude.

- Nov 2008-Feb 2012** **Bachelor's degree in Cognitive Psychology and Psychobiology, University of Padua (Italy).**  
Thesis title: "Neuropsychology of temporal perception in patients with schizophrenia". Supervisor: Prof. Patrizia Bisiacchi.  
Final grade: 105/110.
- Oct 2003–Jul 2007** **Chartered Accountant Qualification, Don Milani - Commercial Technical Institute, Montichiari (Italy).**  
Final grade: 100/100.

## TRAINING

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- Sep 2017-Feb 2018** **Visiting period**  
**Department of Experimental Psychology, University of Ghent (Belgium).**  
Transcranial Magnetic Stimulation (TMS) combined with electromyography (EMG) to investigate motor suppression following an error.  
Supervisor: Prof. Wim Notebaert.
- Feb 2015–Feb 2016** **Internship,**  
**Department of General Psychology, University of Padua (Italy).**  
Techniques to investigate cognitive functions: TMS, transcranial direct current stimulation (tDCS), administration of neuropsychological tests.  
Supervisor: Prof. Daniela Mapelli
- Oct 2013–Jun 2014** **Internship,**  
**IRCCS San Giovanni di Dio - Fatebenefratelli, Brescia (Italy).**  
MRI Post-processing techniques: manual hippocampal volumetry based on standardized methods.  
Supervisor: Marina Boccardi, PhD
- Oct 2010–Mar 2011** **Internship,**  
**Centro Riabilitativo Alta assistenza (CRA), Lonato D/G, Brescia, Italy.**  
Clinical experience in the psychiatric field.

## PERSONAL and TECHNICAL SKILLS

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### Language skills

#### English

UNDERSTANDING		SPEAKING	WRITING
Listening	Reading		
C1	C1	B2	C1

### Software and Computer skills

**Statistical analysis:** SPSS (excellent), JASP (excellent) and R (good)  
**Electroencephalography analysis:** EEGLAB (good), Brainstorm (good)  
**Software for experimental paradigms:** E-PRIME (excellent), Presentation (good)

and OpenSesame (good)

**MRI analysis:** Display (good) , Multitracer (good), FreeSurfer (good)

**Neuronavigation:** Brainsight (excellent)

## PARTICIPATION IN CONFERENCES

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ForItAAL 2019, Ambient Assisted Living, 10° Forum Italiano - Ancona, 19-21 Giugno, 2019. Oral presentation.

25th Annual Meeting of the Cognitive Neuroscience Society – Boston, March 24-27, 2018. Poster session.

6th International Conference on Transcranial Brain Stimulation 2016 –Göttingen, September 7-10, 2016. Poster session.

Società Italiana di Neuropsicologia–Padova, November 27-28, 2015. Poster session.

Invited Lecture - AVO plenary session 2016 – Padova, Lecture Hall – Dept. of Pediatrics, February 16, 2016. Memory and Aging. University of Padova, Italy.

## PUBLICATIONS

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**Masina F.**, Orso V., Pluchino P., Dainese G., Volpato S., Nelini C., Mapelli D., Spagnolli A., Gamberini L. (2020). Voice assistants are (almost) for everybody: investigating speech-based interactions for users with motor and cognitive impairments *JMIR Preprints*. 26/02/2020:18431.

**Masina, F.**, Tarantino, V., Vallesi, A., & Mapelli, D. (2019). Repetitive TMS over the left dorsolateral prefrontal cortex modulates the error positivity: An ERP study. *Neuropsychologia*, 133, 107153.

**Masina, F.**, Di Rosa, E., & Mapelli, D. (2018). Intra-individual variability of error awareness and post-error slowing in three different age-groups. *Frontiers in Psychology*, 9, 902.

**Masina, F.**, Vallesi, A., Di Rosa, E., Semenzato, L., & Mapelli, D. (2018). Possible role of dorsolateral prefrontal cortex in error awareness: single-pulse TMS evidence. *Frontiers in Neuroscience*, 12, 179.

Di Rosa, E., Bardi, L., Umiltà, C., **Masina, F.**, Forgiione, M., & Mapelli, D. (2017). Transcranial direct current stimulation (tDCS) reveals a dissociation between SNARC and MARC effects: Implication for the polarity correspondence account. *Cortex*, 93, 68-78.

**Masina, F.**, Vallesi, A., Di Rosa, E., Saini, F., & Mapelli, D. (2017). P240 Neural and functional bases of error monitoring: A TMS study. *Clinical Neurophysiology*, 128(3), e131-e132.

## POSTERS

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**Masina F.**, Tarantino V., Vallesi A., & Mapelli D., (2018). The role of dorsolateral prefrontal cortex in error processing: a combined ERP-TMS study. Poster presented at the 25th Cognitive Neuroscience Society Annual Meeting – Boston, March 24-27, 2018.

**Masina F.**, Vallesi A., Di Rosa E., & Mapelli D., (2017). Error monitoring and arousal: insights from on-line TMS. Poster presented at the Cognitive Neuroscience of Executive Functions International Conference 2017 – Padova, September 28-30, 2017.

Di Rosa E., **Masina F.**, Vallesi A., & Mapelli D., (2017). Can rewards enhance error awareness? A study in younger and older adults. Poster presented at the 20th European Society for Cognitive Psychology 2017 – Potsdam, September 3-6, 2017.

**Masina F.**, Vallesi A., Di Rosa E., Saini F., & Mapelli D., (2016). Neural and functional bases of error monitoring: a TMS study. Poster presented at the 6th International Conference on Transcranial Brain Stimulation 2016 – Göttingen, September 7-10, 2016.

Di Rosa E., Bardi L., Forgione M., **Masina F.**, Umiltà C. A., & Mapelli D., (2016). Neuromodulation of cognitive control: Different effects of left and right parietal tDCS on stimulus-response associations. Poster presented at conference of the Cognitive Neuroscience Society - New York, April 2-5, 2016.

Cherubini P., Di Rosa E., Cardullo S., **Masina F.**, Mapelli D., & Reverberi C., (2016). Neural basis of the encoding and evaluation of logical connectives: a TMS study. Poster presented at conference of the Cognitive Neuroscience Society - New York, April 2-5, 2016.

Di Rosa E., **Masina F.**, Vallesi A., & Mapelli D., (2015). Motivation and cognition in healthy aging: The paradoxical effect of reward on error awareness. Poster presented at the Italian society of neuropsychology – Padova, November 27-28, 2015.