





## PERSONAL INFORMATION

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### FABIO MASINA

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## ACTUAL POSITION

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### Post-doc research fellow (“ASSEGNO TIPO A” 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 Padova (Italy).

## EDUCATION

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| <b>Sep 2015-Sep 2018</b><br>PhD Defense: Feb 2019 | <b>PhD student in Cognitive Neuroscience</b><br><b>Brain, Mind and Computer Science PhD course, University of Padua (Italy).</b><br>Thesis title: "Behavioral and Neurophysiological Modulation of Error-Related Processes". Supervisor: Prof. Daniela Mapelli.                       |
| <b>Oct 2012-Dec 2014</b>                          | <b>Master's degree in Neuroscience and Neuropsychological Rehabilitation, University of Padua (Italy).</b><br>Thesis title: "Error Awareness and Cognitive Reserve: Exploring the Right Hemisphere Hypothesis". Supervisor: Prof. Daniela Mapelli.<br>Final grade: 110/110 cum laude. |
| <b>Nov 2008-Feb 2012</b>                          | <b>Bachelor's degree in Cognitive Psychology and Psychobiology, University of Padua (Italy).</b><br>Thesis title: "Neuropsychology of temporal perception in patients with schizophrenia". Supervisor: Prof. Patrizia Bisiacchi.<br>Final grade: 105/110.                             |
| <b>Oct 2003–Jul 2007</b>                          | <b>Chartered Accountant Qualification, Don Milani - Commercial Technical Institute, Montichiari (Italy).</b><br>Final grade: 100/100.   |

## TRAINING

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| <b>Sep 2017-Feb 2018</b> | <b>Visiting period,</b><br><b>Department of Experimental Psychology, University of Ghent (Belgium).</b><br><br>Transcranial Magnetic Stimulation (TMS) combined with electromyography (EMG) to investigate motor suppression following error. |
| <b>Feb 2015–Feb 2016</b> | <b>Internship,</b><br><b>Department of General Psychology, University of Padua (Italy).</b><br><br>Techniques to investigate cognitive functions: TMS, transcranial direct current  |

stimulation (tDCS), administration of neuropsychological tests.  
 Statistical tools to analyze data: SPSS and R.  
 Software to create experimental paradigms: E-PRIME and OpenSesame.

- Oct 2013–Jun 2014**      **Internship,**  
**IRCCS San Giovanni di Dio - Fatebenefratelli, Brescia (Italy).**  
 MRI Post-processing techniques: manual hippocampal volumetry based on standardized methods.  
 Software used: Display, Multitracer, FreeSurfer.
- Oct 2010–Mar 2011**      **Internship,**  
**Centro Riabilitativo Alta assistenza (CRA), Lonato D/G, Brescia, Italy.**  
 Clinical experience in psychiatric field.

## PERSONAL SKILLS

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### Language skills

#### English

UNDERSTANDING		SPEAKING	WRITING
Listening	Reading		
B2	C1	B2	C1

### Software and Computer skills

Statistical analysis: **SPSS, R, JASP**  
 Electroencephalography analysis: **EGLAB**  
 Software to create experimental paradigms: **E-PRIME, Presentation, OpenSesame**  
 MRI Post-processing analysis: **Display, Multitracer, FreeSurfer**  
 Neuronavigation: **Brainsight**

## PUBLICATIONS

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**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. <https://doi.org/10.1016/j.clinph.2016.10.356>

## ORAL PRESENTATIONS

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**Masina F.**, Pluchino P., Orso V., Ruggiero R., Dainese G., Mameli I., Volpato S., Mapelli D., & Gamberini L. (2019). Voice actuated control systems (VACS) for accessible and assistive smart homes. A preliminary investigation on accessibility and user experience with disabled users. Presented at the 10th Italian Forum on Ambient Assisted Living (ForItAAL) - Ancona, June 19-21, 2019.

## POSTERS

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**Masina F.**, Orso V., Pluchino P., Mapelli D., & Gamberini L., (2019). Disabilità e Assistenti Vocali: possibile un'interazione efficace ed efficiente? Digital Meet – Padova, October 22, 2019.

**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., Forgiione 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.

Fabio Masina