



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5975

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Dipartimento di Filosofia dell'Università degli Studi di Milano**.

Scientist- in - charge: **Dott. Barchiesi Guido**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Mussini
Name	Elena

### PRESENT OCCUPATION

Appointment	Structure
Postdoctoral Fellowship	University of Chieti "G. d'Annunzio" University, Chieti, Italy

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	LM-51 Neuroscience Master Degree	Trento University, Rovereto, Italy	2017
PhD	PhD Program in "Human Movement and Sport Sciences" - Neuroscience of Human Movement and Sport	University of Rome "Foro Italico", Rome, Italy	2021
Other	PhD Europeus Degree/Doctor Europaeus		2021

### FOREIGN LANGUAGES

Languages	level of knowledge
English	Read: GOOD Written: GOOD Spoken: FLUENT



## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2018	Merit Award 2018 - <a href="#">Trento University</a>
2017	PhD scholarship granted - <a href="#">"Foro Italico" University</a>
2016	UniTrento programme for Traineeship abroad - <a href="#">Trento University</a>

## TRAINING OR RESEARCH ACTIVITY - PROJECT ACTIVITY

Year	Project
<i>Apr. 2021-now</i>	<p><a href="#">Postdoctoral Fellow</a> University of Chieti "G. d'Annunzio" University, Chieti, Italy</p> <ul style="list-style-type: none"><li>▪ Neurophysiological Measures of Interoception</li></ul> <p><a href="#">Supervised by Prof. Francesca Ferri</a></p>
<i>Mar. 2020</i>	<p><a href="#">Collaboration</a> University of Zurich, Zurich, Swiss</p> <ul style="list-style-type: none"><li>▪ Behavioural experiments on embodied cognition, enfacement illusion and anthropomorphism</li></ul> <p><a href="#">Supervised by Prof. Bigna Lenggenhager</a></p>
<i>Jan. 2020-Mar. 2020</i>	<p><a href="#">Visiting PhD Student/Visiting Researcher</a> University of Lancaster, Lancaster, UK</p> <ul style="list-style-type: none"><li>▪ Virtual Reality experiments on grasping and handedness</li></ul> <p><a href="#">Supervised by Dr. Sally Ann Linkenauger</a></p>
<i>June 2019-Dec. 2019</i>	<p><a href="#">Visiting Ph.D Student</a> University of Stirling, Stirling, Scotland, UK</p> <ul style="list-style-type: none"><li>▪ EEG experiments on Grasping and Joint action</li></ul> <p><a href="#">Supervised by Dr. Dimitrios Kourtis</a></p>
<i>June 2018-Oct. 2018</i>	<p><a href="#">Collaboration</a> University of Padua, Padua, Italy</p> <ul style="list-style-type: none"><li>▪ Experiment with Transcranial Magnetic Stimulation (TMS) on grasping and handedness</li></ul> <p><a href="#">Supervised by Prof. Luisa Sartori</a></p>
<i>Nov. 2017-Jan. 2021</i>	<p><a href="#">PhD Student</a> University of Rome "Foro Italico", Rome, Italy</p> <ul style="list-style-type: none"><li>▪ EEG experiments on cognitive and motor preparation (attention, anxiety, feedback and task complexity)</li></ul> <p><a href="#">Supervised by Prof. Francesco Di Russo</a></p>
<i>Sept. 2016-Dec. 2016</i>	<p><a href="#">Trainee</a> Edge Hill University, Ormskirk, UK</p> <ul style="list-style-type: none"><li>▪ Experiment with Transcranial Magnetic Stimulation (TMS) on grasping and handedness</li></ul> <p><a href="#">Supervised by Dr. Stergios Makris</a></p>



June 2016-July 2016	<p><b>Research volunteer</b> Research volunteer at the CIMeC of Trento University (Rovereto, Italy)</p> <ul style="list-style-type: none"> <li>Experiment on numerical cognition in zebrafish</li> </ul> <p>Supervised by Prof. Valeria Anna Sovrano</p>
Apr. 2015-July 2015	<p><b>Trainee</b> Bicocca University (Milano, Italy)</p> <ul style="list-style-type: none"> <li>Instruments and methods of professional practice of psychology</li> </ul>
July 2013-now	<p><b>Research volunteer</b> Research volunteer at the DISPUTER of "G. d'Annunzio" University (Chieti, Italy)</p> <ul style="list-style-type: none"> <li>Behavioural experiments on embodied cognition (handedness, proprioception, motor imagery and distance perception) and evolutionary psychology (mate selection, sociosexuality and food preferences)</li> </ul> <p>Supervised by Prof. Luca Tommasi</p>

## CONGRESSES AND SEMINARS

Date	Title	Place
September 2023	<b>Mussini E.</b> , Zaccaro A., Di Luzio P., Perrucci M.G., Costantini M. & Ferri F. "Follow your heart, it knows the way": Unveiling the Impact of Heart-Brain Interactions on Free-Choice Actions.	Poster presentation Body Representation Network (BRNet) - Palma de Mallorca (Spain)
September 2023	Zaccaro, A., Della Penna, F., <b>Mussini, E.</b> , Parrotta, E., Perrucci, M.G., Costantini, M., & Ferri, F. (2023). Exploring the dynamic interplay between cardiac interoception, focus of attention, and respiration. Poster presentation.	Poster presentation Body Representation Network (BRNet) - Palma de Mallorca (Spain)
June 2023	<b>Mussini E.</b> , Perrucci M.G., Costantini M. & Ferri F. (2023). Brain-Heart-Respiratory Interactions: Interoceptive influences on perception and action. Symposium: To act or not to act? Just follow your heart: how the heart influences the motor domain at behavioural and brain levels.	Symposium Cognitive Neuroscience Conference on Body-Brain Waves - Salerno (Italy)
September 2022	<b>Mussini E.</b> , Lamboglia A., Perrucci M.G., Costantini M. & Ferri F. (2022). Cold-hearted choices: a study on the influence of cardiac phase on free-choice actions.	Regular talk XXX Association of Italian Psychology (AIP - experimental division) - Padua (Italy)
July 2022	<b>Mussini E.</b> , Perrucci M.G., Zaccaro A., Costantini M. & Ferri F. (2022). Brain-heart interactions during motor responses in reactive and proactive contexts.	Poster presentation XXIV Federation of European Neuroscience Societies (FENS) - Paris (France)
November 2020	<b>Mussini E.</b> , Bianco V., Pitzalis, S. & Di Russo F. (2020). Give me a feedback! Neural bases of feedback effects on behavioural performance.	Poster presentation XXVIII Real brains in the virtual SIPF Annual Meeting - Virtual Edition
September 2020	<b>Mussini E.</b> , Marzoli D., Padulo C., Malatesta G., Masotta A., Montemurro M., Mangione V.,	Mini-talk



	Troiano S., Tommasi L., (2020). Spicy at the table and beyond: the relationship between food preferences and sexual strategies.	26th AIP conference - Virtual Edition
November 2019	<b>Mussini E.</b> , Berchicci M., Bianco V., Perri R., Quinzi F., Spinelli D., Di Russo F. (2019). Is the cognitive preparation modulated by the level of anxiety? Tell me how you prepare and I will tell you how you process.	Symposium 26th SIPF conference - Ferrara (Italy)
September 2019	<b>Mussini E.</b> , Berchicci M., Bianco V., Perri R., Quinzi F., Di Russo F. (2019). La preparazione cognitiva è modulata dal livello di ansia?	Mini-talk 25th AIP conference - Milan (Italy)
November 2018	<b>Mussini E.</b> , Berchicci M., Bianco V., Perri R., Quinzi F., Spinelli, D., Di Russo F. (2018). The effect of complexity on pre- and post-stimulus phases in discriminative response task.	Poster presentation 25th SIPF conference - Turin (Italy)
July 2018	<b>Mussini E.</b> , Berchicci M., Bianco V., Perri R., Quinzi F., Spinelli, D., Di Russo F. (2018) Effect of task complexity on motor and cognitive preparation.	Poster presentation XXI AIP conference. XII Congress of the Sociedad Española de Psicología Experimental (SEPEX); XI Congress of the Sociedad Española de Psicofisiología y Neurociencia Cognitiva y Afectiva (SEPNECA) - First Joint Congress of the SEPEX, SEPNECA and AIP experimental - Madrid (Spain)
September 2015	Malatesta, G., <b>Mussini, E.</b> , Masotta, A., Marzoli, D., Daini, R., & Tommasi, L. (2015). The effects of arm fatigue on perceived distance.	Poster presentation EBBS-EBPS Joint meeting – Verona (Italy)
September 2015	Malatesta, G., <b>Mussini, E.</b> , Masotta, A., Marzoli, D., Daini, R., & Tommasi, L. (2015). The effects of arm fatigue on perceived distance	Poster presentation XXI AIP conference - Rovereto, (Italy)

## PUBLICATIONS

<b>Articles in reviews</b>
1) Marzoli, D., Lucafò, C., Rescigno, C., <b>Mussini, E.</b> , Padulo, C., Prete, G., ... & Tommasi, L. (2017). Sex-specific effects of posture on the attribution of handedness to an imagined agent. <i>Experimental brain research</i> , 235(4), 1163-1171.
2) Chacko, S. C., Quinzi, F., De Fano, A., Bianco, V., <b>Mussini, E.</b> , Berchicci, M., ... & Di Russo, F. (2020). A single bout of vigorous-intensity aerobic exercise affects reactive, but not proactive cognitive brain functions. <i>International Journal of Psychophysiology</i> , 147, 233-243.
3) de Tommaso, M., Betti, V., Bocci, T., Bolognini, N., Di Russo, F., Fattapposta, F., Ferri, R., Invitto, S., Koch, G., Miniussi, C., Piccione, F., Ragazzoni, A., Sartucci, F., Rossi, S., Arcara, G., Berchicci, M., Bianco, V., Delussi, M., Gentile, E., Giovannelli, F., Mannarelli, D., Marino, M., <b>Mussini, E.</b> , Pauletti, C., Pellicciari, M.C., Pisoni, A., Raggi, A & Valeriani, M. (2020). Pearls and pitfalls in brain functional analysis by event-related potentials: a narrative review by the Italian Psychophysiology and Cognitive Neuroscience Society on methodological limits and clinical reliability—part I. <i>Neurological Sciences</i> , 1-25.
4) Bianco, V., Berchicci, M., Livio Perri, R., Quinzi, F., <b>Mussini, E.</b> , Spinelli, D., & Di Russo, F. (2020). Preparatory ERPs in visual, auditory, and somatosensory discriminative motor tasks. <i>Psychophysiology</i> , 57(12), e13687.
5) <b>Mussini, E.</b> , Berchicci, M., Bianco, V., Perri, R. L., Quinzi, F., & Di Russo, F. (2020). The Role of Task Complexity on Frontal Event-related Potentials and Evidence in Favour of the Epiphenomenal Interpretation of the Go/No-Go N2 Effect. <i>Neuroscience</i> , 449, 1-8.



6) Di Russo, F., Berchicci, M., Bianco, V., <b>Mussini, E.</b> , Perri, R. L., Pitzalis, S., ... & Spinelli, D. (2021). Sustained visuospatial attention enhances lateralized anticipatory ERP activity in sensory areas. <i>Brain Structure and Function</i> , 1-14.
7) <b>Mussini, E.</b> , Berchicci, M., Bianco, V., Perri, R. L., Quinzi, F., & Di Russo, F. (2021). Effect of task complexity on motor and cognitive preparatory brain activities. <i>International Journal of Psychophysiology</i> , 159, 11-16.
8) Di Russo, F., Berchicci, M., Bianco, V., Perri, R. L., Pitzalis, S., & <b>Mussini, E.</b> (2021). Modulation of anticipatory visuospatial attention in sustained and transient tasks. <i>Cortex</i> , 135, 1-9.
9) Fiorini, L., Berchicci, M., <b>Mussini, E.</b> , Bianco, V., Lucia, S., & Di Russo, F. (2021). Neural Basis of Anticipatory Multisensory Integration. <i>Brain sciences</i> , 11(7), 843.
10) Bianco, V., Berchicci, M., <b>Mussini, E.</b> , Perri, R. L., Quinzi, F., & Di Russo, F. (2021). Electrophysiological Evidence of Anticipatory Cognitive Control in the Stroop Task. <i>Brain Sciences</i> , 11(6), 783.
11) Bianco, V., Berchicci, M., Gigante, E., Perri, R. L., Quinzi, F., <b>Mussini, E.</b> , & Di Russo, F. (2022). Brain Plasticity Induced by Musical Expertise on Proactive and Reactive Cognitive Functions. <i>Neuroscience</i> , 483, 1-12.
12) <b>Mussini, E.</b> , Bianco, V., Pitzalis, S., & Di Russo, F. (2022). Modulation of neurocognitive functions associated with action preparation and early stimulus processing by response-generated feedback. <i>Biological Psychology</i> , 108360.
13) <b>Mussini, E.</b> , & Di Russo, F. (2022). Reduction of anticipatory brain activity in anxious people and regulatory effect of response-related feedback. <i>Psychophysiology</i> , e14166.
14) Lucia, S., Aydin, M., Bianco, V., Fiorini, L., <b>Mussini, E.</b> , & Di Russo, F. (2023). Effect of anticipatory multisensory integration on sensory-motor performance. <i>Brain Structure and Function</i> , 1-11.

## MAIN TECHNICAL SKILLS AND COMPETENCES

- Office suite
- CorelDRAW Graphics Suite 2019
- Abrosoft FantaMorph 5
- Statistical Software SPSS
- Statistical Software Statistica
- Neurobehavioral Systems – Presentation Experimental Software
- E-Studio - E-Prime Experimental Software
- Superlab Experimental Software
- BrainVision Analyzer 1 and 2
- Brain Products - Electroencephalography (EEG) – 64 channels
- BrainMagStim - Transcranial Magnetic Stimulation (TMS)
- Electromyography (EMG)
- Lens Studio
- MatLab
- AcqKnowledge® 5 Software
- BIOPAC

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Chieti, 21/11/2023