



ALLA MAGNIFICA RETTRICE  
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7042

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Filosofia Piero Martinetti

Responsabile scientifico: Prof. Sinigaglia

Elena Mussini

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

<b>Cognome</b>	Mussini
<b>Nome</b>	Elena

### OCCUPAZIONE ATTUALE

<b>Incarico</b>	<b>Struttura</b>
Assegnista di ricerca	Università degli Studi di Milano

### ISTRUZIONE E FORMAZIONE

<b>Titolo</b>	<b>Corso di studi</b>	<b>Università</b>	<b>anno conseguimento titolo</b>
Laurea Magistrale o equivalente	LM-51 Neuroscience Master Degree	Trento University, Rovereto, Italy	2017
Dottorato Di Ricerca	PhD Program in "Human Movement and Sport Sciences" - Neuroscience of Human Movement and Sport	University of Rome "Foro Italico", Rome, Italy	2021
Altro	PhD Europeaus Degree/Doctor Europeaus	University of Rome "Foro Italico", Rome, Italy	2021



## LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
Inglese	Lettura: BUONO Scrittura: BUONO Parlato: FLUENTE

## PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
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>

## ATTIVITÀ DI FORMAZIONE O DI RICERCA

Anno	Progetto
<i>Genn. 2024 - Ora</i>	<a href="#">Postdoctoral Fellow</a> University of Milan, Milan, Italy <ul style="list-style-type: none"><li>Motor resonance during action planning and social interactions: from single neurons to brain circuits</li></ul> <a href="#">Supervised by Dr. Guido Barchiesi</a>
<i>Apr. 2021- Dic. 2023</i>	<a href="#">Postdoctoral Fellow</a> University of Chieti "G. d'Annunzio" University, Chieti, Italy <ul style="list-style-type: none"><li>Neurophysiological Measures of Interoception</li></ul> <a href="#">Supervised by Prof. Francesca Ferri</a>
<i>Mar. 2020</i>	<a href="#">Collaboration</a> University of Zurich, Zurich, Swiss <ul style="list-style-type: none"><li>Behavioural experiments on embodied cognition, enfacement illusion and anthropomorphism</li></ul> <a href="#">Supervised by Prof. Bigna Lenggenhager</a>
<i>Gen. 2020- Mar. 2020</i>	<a href="#">Visiting PhD Student/Visiting Researcher</a> University of Lancaster, Lancaster, UK <ul style="list-style-type: none"><li>Virtual Reality experiments on grasping and handedness</li></ul> <a href="#">Supervised by Dr. Sally Ann Linkenauger</a>
<i>Giu. 2019- Dic. 2019</i>	<a href="#">Visiting Ph.D Student</a> University of Stirling, Stirling, Scotland, UK <ul style="list-style-type: none"><li>EEG experiments on Grasping and Joint action</li></ul> <a href="#">Supervised by Dr. Dimitrios Kourtis</a>
<i>Giu 2018- Ott. 2018</i>	<a href="#">Collaboration</a> University of Padua, Padua, Italy <ul style="list-style-type: none"><li>Experiment with Transcranial Magnetic Stimulation (TMS) on grasping and handedness</li></ul> <a href="#">Supervised by Prof. Luisa Sartori</a>
<i>Nov.2017- Gen. 2021</i>	<a href="#">PhD Student</a> University of Rome "Foro Italico", Rome, Italy <ul style="list-style-type: none"><li>EEG experiments on cognitive and motor preparation (attention, anxiety, feedback and task complexity)</li></ul> <a href="#">Supervised by Prof. Francesco Di Russo</a>
<i>Sett. 2016- Dic.. 2016</i>	<a href="#">Trainee</a> Edge Hill University, Ormskirk, UK



	<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>
<i>Giu. 2016- Lug. 2016</i>	<p><a href="#">Research volunteer</a></p> <p>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><a href="#">Supervised by Prof. Valeria Anna Sovrano</a></p>
<i>Apr. 2015- Lug. 2015</i>	<p><a href="#">Trainee</a></p> <p>Bicocca University (Milano, Italy)</p> <p>Instruments and methods of professional practice of psychology</p>
<i>Lug. 2013- ora</i>	<p><a href="#">Research volunteer</a></p> <p>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><a href="#">Supervised by Prof. Luca Tommasi</a></p>

## CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Tipologia di presentazione - Congresso e Sede
Novembre 2024	<b>Mussini E.</b> , Genovese F., Sykes J., Fanghella M., Bortoletto M., Zazio A., Rota P., Cattaneo L., Sinigaglia C. & Barchiesi G. Unlocking motor preparation with Multidimensional Motor Evoked Potentials (MultiMEP): A new approach to the study of motor processes.	Poster 4th TBS Workshop - Rovereto (Italy)
Novembre 2024	Genovese F., <b>Mussini E.</b> , Sykes J., Fanghella M., Bortoletto M., Zazio A., Rota P., Cattaneo L., Sinigaglia C. & Barchiesi G. Motor Evoked Potentials (MultiMEP): Inferring motor imagery content from single trials.	Poster 4th TBS Workshop - Rovereto (Italy)
Settembre 2024	<b>Mussini E.</b> , F. Genovese, J. Sykes, M. Fanghella, C. Sinigaglia, G. Barchiesi. Unlocking motor preparation with Multidimensional Motor Evoked Potentials (MultiMEP): A new approach to the study of motor processes.	Poster 29th SIPF conference - Cesena (Italy)
Settembre 2024	Genovese F., Fanghella M., Sykes J., <b>Mussini E.</b> , Barchiesi G., Sinigaglia C.. Joint Space: a study plan.	Poster 29th SIPF conference - Cesena (Italy)
Settembre 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 Body Representation Network (BRNet) - Palma de Mallorca (Spain)
Settembre 2023	Zaccaro, A., Della Penna, F., <b>Mussini, E.</b> , Parrotta, E., Perrucci, M.G., Costantini, M., & Ferri, F. (2023). Exploring the dynamic	Poster Body Representation Network (BRNet) - Palma de Mallorca (Spain)



	interplay between cardiac interoception, focus of attention, and respiration. Poster presentation.	
Giugno 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.	Simposio Cognitive Neuroscience Conference on Body-Brain Waves - Salerno (Italy)
Settembre 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)
Luglio 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 XXIV Federation of European Neuroscience Societies (FENS) - Paris (France)
Novembre 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 XXVIII Real brains in the virtual SIPF Annual Meeting - Virtual Edition
Settembre 2020	<b>Mussini E.</b> , Marzoli D., Padulo C., Malatesta G., Masotta A., Montemurro M., Mangione V., Troiano S., Tommasi L., (2020). Spicy at the table and beyond: the relationship between food preferences and sexual strategies.	Mini-talk 26th AIP conference - Virtual Edition
Novembre 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.	Simposio 26th SIPF conference - Ferrara (Italy)
Settembre 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)
Novembre 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 25th SIPF conference - Turin (Italy)
Luglio 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 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)
Settembre 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 EBBS-EBPS Joint meeting – Verona (Italy)
Settembre 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 XXI AIP conference - Rovereto, (Italy)

## PUBBLICAZIONI

Articoli su riviste
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.
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.
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.
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.
<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.
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.
<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.
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.
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.
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.
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.
<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. *Biological Psychology*, 108360.

Mussini, E., & Di Russo, F. (2022). Reduction of anticipatory brain activity in anxious people and regulatory effect of response-related feedback. *Psychophysiology*, e14166.

Lucia, S., Aydin, M., Bianco, V., Fiorini, L., Mussini, E., & Di Russo, F. (2023). Effect of anticipatory multisensory integration on sensory-motor performance. *Brain Structure and Function*, 1-11.

Bianco, V., Bello, A., Cimmino, R. L., Lucci, G., Mussini, E., Perri, R. L., ... & Di Russo, F. (2024). Electrophysiological Correlates of Amplified Emotion-Related Cognitive Processing Evoked by Self-Administered Disgust Images. *Brain Sciences*, 14(6), 525.

Zaccaro, A., Della Penna, F., Mussini, E., Parrotta, E., Perrucci, M. G., Costantini, M., & Ferri, F. (2024). Attention to cardiac sensations enhances the heartbeat-evoked potential during exhalation. *Iscience*, 27(4).

Mussini, E., Perrucci, M. G., Costantini, M., & Ferri, F. (2024). Heartfelt choices: The influence of cardiac phase on free-choice actions. *Psychophysiology*, e14682.

## ALTRE INFORMAZIONI

### Competenze tecniche:

- 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)
- FieldTrip
- Lens Studio
- MatLab
- AcqKnowledge® 5 Software
- BIOPAC
- Python (basic level)
- Psychtoolbox

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che i curricula SARANNO RESI PUBBLICI sul sito di Ateneo e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: 14/12/2024, Milano