

PERSONAL INFORMATIONS

Giacomo Mazzotta

Last cv update: July 2025

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Sex Male | Date of birth 10/10/1999 | Nationality Italian

PERSONAL SKILLS

Mother tongues	Italian, Hungarian				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Job-related skills

- Proficient in designing and carrying out psychophysics experiments
- Proficient with fMRI (Functional Magnetic Resonance Imaging)
- Proficient with EEG (electroencephalography)
- Experience with eye-tracker technique (pupillometry and eye movements)
- Experience with portable advanced devices for recordings psychophysiological parameters (HR, EDA, GSR, pupillary dilation, scan path)

Digital skills

- Proficient user of MATLAB, R, JASP.
- Proficient in fMRI (SPM, FSL, FreeSurfer, ANTs), and neuroimaging pipelines.
- Skilled in EEG analysis (EEGLAB, FieldTrip), including preprocessing and ERP extraction
- Experience with Python coding.
- Proficient user of office package, internet browsing programs, e-mail management, image management, and presentations creation.

RESEARCH EXPERIENCE

- 12/2024-Present **Research Fellow in Neuroscience**
Department of Translational Research and New Surgical and Medical Technologies
University of Pisa, Pisa (Italy)
Engaged in fMRI research on visual attention and brain plasticity.

EDUCATION AND TRAINING

- 10/2019–10/2022 **Bachelor's degree in Psychological Sciences and Techniques** EQF level 6
University of Florence, Firenze (Italy)
Thesis Title: In the eyes of the observer:
Development and applications of Eye tracking techniques in the artistic field.
- 04/2024-06/2024 **Internship**
University of Florence, Florence (Italy)
Department of Neuroscience, Psychology, Drug Research and
Child Health, Florence
Topic: Psychophysiological Research in Neuroesthetics
- 10/2022-10/2024 **Master's degree in Clinical and Health Psychology** EQF level 7
Neuropsychology
University of Florence, Firenze (Italy)
Thesis Title: Analysis of salient visual features in fast vision:
ERPs study of C1 component.
Final result: 110/110 Cum Laude
- 09/2014–07/2019 **High School Diploma** EQF level 4
Liceo Economico - Sociale Giosuè Carducci, Pisa (Italy)

Publications

Research articles

- 2025 Castellotti, S., Mazzotta, G., Benedetto, A. et al. Optimal feature encoding in early vision. *Sci Rep* 15, 23794 (2025). <https://doi.org/10.1038/s41598-025-07644-9>.
*I share first authorship of the article.

Abstracts

- 2025 Mazzotta, G., Acquafredda, M., Biagi, L., Tosetti, M., Morrone, M., Binda, P., *Effects of visual attention in the Pulvinar at 7T fMRI*.
*Abstract accepted as a poster at the European Conference on Visual Perception (ECVP) 2025.
- 2024 Castellotti, S., Mazzotta, G., Benedetto, A. & Del Viva, M.M.; Extraction of optimally-informative features in fast vision: an ERPs study of C1 component. *Perception*.
*Poster presented at the European Conference on Visual Perception (ECVP) in August 2024, abstract presented on the dedicated journal.

Workshops and Conferences

- 2024 **BrainHack Lucca 2024 - Project Leader**
Participated in four days of seminars, workshops and participated as a group leader to present, design and complete fMRI-EEG based analyses using Python based pipelines.

ADDITIONAL INFORMATION

During my studies, I participated in numerous seminars related to research in the field of visual processes at the University of Florence and attended presentations of research projects by international scientists, as Mark Greenlee and Reuben Rideaux. Additionally, I had the opportunity to attend to seminars dedicated to neurodevelopmental disorders and the development of new models of tele-intervention and rehabilitation at the IRCCS Stella Maris.

During my internship, spent observing works in progress in the Neuroesthetics field, I had the opportunity to explore and gain knowledge about numerous instruments and measurements useful in the most diverse areas of neuroscientific research, including heart rate, eye movements and electrodermal activity (EDA).

Furthermore, my thesis work, an EEG based research about fast vision mechanisms has been presented in Oslo, in occasion of the Structure and Cognition Cluster, part of the RITMO Centre for Interdisciplinary Studies in Rhythm, Time, and Motion at the University of Oslo. Moreover, the same work has been presented as a poster at the European Conference on Visual Perception (ECVP) in Aberdeen. The abstract is now published on *Perception*, the dedicated journal.

During the course of my thesis, I had the opportunity to work closely with Alessandro Benedetto, who imparted his knowledge of EEG to me. From preparing paradigms to processing data, Alessandro provided me with the expertise needed to independently carry out data collection and to understand and apply various analytical techniques. With Alessandro, I had the opportunity to contribute to the research field with my first peer review.

Lastly, during the last year of my master studies, I won an Erasmus Traineeship in the research institute "La Timone", in Marseille, to proceed my studies and get trained to the use of eye tracking techniques.

Currently, I am involved in fMRI-based research on visual plasticity and attentional processes, working on both cortical and subcortical regions. This experience has allowed me to further expand my methodological toolkit and deepen my understanding of brain connectivity and functional neuroimaging.