

Francesca Piovesan

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Education

- 2023 – Present **PhD in Neuroscience** – University of Turin
Mentors: Professor Giuliano Carlo Geminiani and Doctor Irene Ronga .
- 2019 – 2022 **Master's degree in Cognitive Neuroscience** – University of Turin
Thesis titled: Virtual Shared Attention modulates Brain Plasticity: Perceptual Learning under the Bayesian Brain Hypothesis
Mentors: Professor Katiuscia Sacco, Doctor Irene Ronga and Doctor Pietro Sarasso.
Grade: 110/110 Magna Cum Laude.
- 2015 – 2019 **Bachelor's degree in Psychology** – University of Turin
Thesis titled: Second-generation immigrants: bilingualism as a vehicle for integration
Mentor: Professor Emanuela Rabaglietti.

Publications

- 2024 **Virtual Social Interaction in a Multiplayer-Online Video Game Increases Implicit Learning: An EEG Study.**
Piovesan F., Del Fante E., Sarasso P., Barbieri P., Villa M.C., Sacco K., Ronga I.
Cyberpsychology, Behavior and Social Networking.
- 2024 **Shared attention in virtual immersive reality enhances electrophysiological correlates of implicit sensory learning.**
Sarasso P., Ronga I., **Piovesan F.**, Barbieri P., Del Fante E., De Luca D., Bechis L., Osello A., Sacco K.
Scientific Reports.
- forthcoming **Unveiling the relation between aesthetic experiences and attention through a cross-experiment validation of their processing biomarkers.**
Barbieri, P., Berto, M., Sarasso, P., Frascaroli, J., Handjaras G., **Piovesan F.**, Gnecco G., Bottari D*, Ronga I.
In principle-accepted as a Registered Report on *PNAS Nexus*.
- in preparation **Audiovisual crossmodal congruency may enhance visuo-spatial long-term memory.**
Piovesan F., Sarasso S., Varesio G., Lozzi I., Barbieri P., Sacco K., Ronga I.
- in preparation **Bayesian Poetics: A Framework for Understanding Aesthetic Effectiveness in Language.**
Piovesan F., Frascaroli J., Ronga I.

Research experience

- 2022 – 2023 **Internship at the Department of Psychology, University of Turin**
Supervisor: Professor Katiuscia Sacco
I have gathered experience in data collection and analysis in various domains, with a specific focus on aesthetics and learning processes. In my time as a trainee I have learned how to use lab equipment such as the electroencephalography, and to pre-process and analyze EEG, EDA and ECG signals.
- 2021 – 2022 **Thesis work at BIP (Brain Plasticity and Behaviour Changes) Group**
My thesis resulted in a published paper titled *Virtual Social Interaction in a Multiplayer-Online Video Game Increases Implicit Learning: An EEG Study* published in June 2024.

Scholarships and prizes

- 2024 Enrica Marzola Award (2nd place) awarded by the Doctoral School of the University of Turin for my paper *Virtual Social interaction in a Multi-player Online Video Game increases Implicit Learning: An EEG Study*.
- 2023 Micro Grant as the co-PI for the project *Aesthetic Attitude and Attentional Amplification: An Electrophysiological Study* (APA Division 10).
- 2023 Doctoral Fellowship within the project “NODES - Nord Ovest Digitale e Sostenibile”, Department of Psychology, University of Turin, Italy.

Conference Presentations & Posters

- 2025 **Bayesian Poetics: A Framework for Understanding Talk. Aesthetic Effectiveness in Language.**
PEA Conference on the Philosophy of Poetry
Genoa, 27th January, 2025.
- 2024 **Implicit learning processes and musical consonance in pathological ageing: an EEG study.**
Poster. APA 2024 *Seattle (WA), USA, 10th of August 2024.*
- 2024 **The “Stopping for Knowledge” Hypothesis: New Evidence for Motor Inhibition in Aesthetic Experience.**
Poster. XXVIII Congress of the International Association of Empirical Aesthetics.
Palma de Mallorca, Spain, 8-10th May 2024.

- 2023 **Audiovisual crossmodal congruency may enhance visuo-spatial long-term memory.**
20th Italian Society for Neuroscience (SINS) National Meeting. Poster.
Turin, Italy, September 14-17th 2023.
- 2023 **Gamification as a resource to incentivate motivation in rehabilitation protocols**
Talk. 16th SIPI Congress - Societa Italiana di Psicologia dell'Invecchiamento (Italian Society of Psychology of Aging).
Pavia, Italy, 26th and 27th of May 2023
- 2022 **Motor inhibition following aesthetic stimulation.**
First International Conference on Beauty and Change. Poster. *Turin, Italy, 17-19 October 2022*

Technical skills

Data collection and Analysis

- EEG: Acquisition and preprocessing using Letswave toolbox, EEGLAB, and MATLAB; post-processing analysis in time, frequency, and time-frequency domains.
- Physiological Data: ECG data collection and analysis; skin conductance analysis using MATLAB and AcqKnowledge.
- Behavioral Data: Collection and analysis using SPSS, JASP, Python, MATLAB, and Excel.

Experimental Design and Programming

- Design and programming of experiments using E-Prime, PsyToolkit, Gorilla, AcqKnowledge and MATLAB.

Languages

Italian: Native speaker English: C2 (CAE, Certificate of Advanced English, Grade A); Spanish: C2; French: B2.

Programming languages

Python; MATLAB; $\LaTeX$.

Software

Letswave, EEGLAB, E-prime, JASP, SPSS, Originlab, Office suite, Git, AcqKnowledge, SystemPlus Evolution, BrainVision, Photoshop.

Other interests

Basketball, watercolor painting, (horror) movies, and cheese.