Euro*pass* Curriculum Vitae Francesca Ferroni

PERSONAL INFORMATION

Francesca Ferroni



francesca.ferroni1@unipr.it

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CURRENT POSITION

Research Fellow

Department of Medicine and Surgery, Unit of Neuroscience, University of Parma

Title of the project: "The neural underpinnings of the representation and plasticity of multisensory

integration processes in healthy and psychopathological population".

(BIO/09 - M-PSI/02)

SCIENTIFIC PROFILE

ORCID ID: 0000-0003-4665-9102 Scopus Author ID: 57194607170

Scopus citations: 282 Scopus h-index: 8

WORK EXPERIENCE

03/2023– Present Professor - supplementary teaching/exercises

Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia

Course: Laboratory of Neuropsychology

Degree Course: Psychological Sciences and Techniques

04/2022- 09/2023 Teaching Assistant

Department of Humanities, Social Sciences and Cultural Industries, University of Parma (Italy)

Course: Neuroscience (BIO/09) Degree Course: Philosophy

10/2023- Present Teaching Assistant

Department of Food and Drug, University of Parma (Italy)

Course: General Physiology (BIO/09)

Degree Course: Pharmacy

10/2022– Present Teaching Assistant

Department of Food and Drug, University of Parma (Italy)

Course: Human Anatomy (BIO/16) Degree Course: Pharmacy

04/2021 – Present Teaching Assistant

Department of Medicine & Surgery, University of Parma (Italy)

Course: General Psychology (M-PSI/02)

Degree Course: Audioprothesic Techniques; Physiotherapy; Sport Sciences, Physical Exercise and

Human Health.

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04/2021- Present

Teaching Assistant

Department of Biomedical, Metabolical and Neural Sciences, University of Modena and Reggio Emilia

(Italy)

Course: Laboratory of Neuropsychology (M-PSI/02) Degree Course: Psychological Sciences and Techniques

04/2021- Present

Admitted to the National Order of Biologists (n. AA 089117)

Order of Biologists of Emilia-Romagna and Marche (Italy)

EDUCATION AND TRAINING

11/2017-03/2021

PhD in Neuroscience

University of Modena, Modena (Italy)

Thesis: "Bodily self-identity and the performativity of peripersonal space in

schizotypy and schizophrenia"
Supervisor: Professor Vittorio Gallese
Final mark: Excellent cum Laude.

09/2016-10/2017

Scholarship in Neuroscience

University of Parma, Parma (Italy)

• Participation in experimental research projects as participant

- Recording of physiological (e.g., electrocardiogram, galvanic skin response) and superficial facial electromyographic (EMG) data
- Acquisition of Functional Magnetic Resonance (fMRI) data
- Contribution to the drafting of the scientific paper "Evidence for anger saliency during the recognition of chimeric facial expressions of emotions in underage ebola survivors" published in Frontiers in psychology

09/2014-09/2016

Master's degree in Neurobiology

University of Pavia, Pavia (Italy)

Thesis: "The Enfacement Illusion: empathy, physiological correlates and insights into

psychopathology of schizophrenia"

Supervisor: Professor Maria Grazia Bottone

Final mark: 110/110 cum Laude.

09/2011-09/2014

Bachelor's Degree in Biology

University of Parma, Parma (Italy)

Thesis: "Effects of early traumatic experiences on physiological responses to

viewing emotional facial expressions in Sierra Leone".

Supervisor: Professor Vittorio Gallese

Final mark: 110/110.

PREVIOUS POSITIONS

10/2022-09/2023

Post-doctoral research fellow

Department of Medicine and Surgery, University of Parma, Parma, Italy

Title of the project: "The neural bases of multisensory integration processes during

prenatal development".

(M-PSI/02)

10/2021-08/2022

Post-doctoral research fellow

Department of Medicine and Surgery, University of Parma, Parma, Italy

Title of the project: "My Space".

(M-PSI/02)

PERSONAL SKILLS

Mother tongue

Italian

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Other language(s)

SPEAKING UNDERSTANDING WRITING Listening Reading Spoken interaction Spoken production B2 B2 B2 B2 B2 B2 B2 B2 B2 B2

English French

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

Job-related skills

TECHNICAL SKILLS

- Functional Magnetic Resonance Imaging Independent user
- Facial electromyography Independent user
- Autonomic Nervous System recordings Proficient user
- Recording and analysis of psychological and psychophysical data Proficient user

ADDITIONAL SKILLS

- Discussant for lecture of Professor Shaun Gallagher: "Bodily self-awareness and body-schematic processes"
- Associate Editor for Mind & Society journal (07/2023-present)
- Review Editor for Perception Science (Frontiers in Psychology, Frontiers in Neuroscience) (03/2023present)
- Associate Editor for BMC Research Notes journal (02/2022-present)
- Reviewer for several international indexed journals: e.g., Brain Sciences, Consciousness and Cognition; Frontiers in psychology; Journal of Experimental Psychology; Neuroscience & Biobehavioural Review; PANS; Psychopathology; Schizophrenia Research
- Participation in graduate committees as correlator of master's theses
- Supervising theses of master's degree students
- Doctoral student representative (01/2018-12/2020)

RESEARCH INTERESTS

- Multisensory integration mechanisms and their alterations in schizophrenia
- Peripersonal Space representation and plasticity along the schizophrenia spectrum (i.e., schizotypy, full-blown schizophrenia patients)
- The neurobiological bases of Bodily-Self in healthy individuals and schizophrenic patients
- Neurophysiological bases of Aesthetic experience



TEACHING ACTIVITY - INVITED LECTURES

 Invited lecture for seminar "Arte e senso comune" Genova, Italy. 20-04-2024

 Invited lecture during the "Neuroscience" course of the Bachelor degree in Philosophical Studies, University of Parma.

Title: "Bodily self and schizophrenia". 12-03-2024

 Invited lecture for the NAAD Master, Title: "The Rhythm of Space".
 IUAV University of Venice; Venice, Italy. 29-02-2024

Invited lecture during winter course "Moving Boundaries"

Title: "Space or place? a look at architecture from within".

Venice, Itay.

13-12-2023 / 17-12-2023

 Invited lecture during "Neuroshopping" course of the Master degree in Trade and consumer marketing,

Title: "Dove ci porteranno le Neuroscienze? una prospettiva embodied".

Parma, Italy.

22-11-2023

• Invited lecture for the 'Giornata mondiale della salute mentale',

Title: "Mente e Malattia".

Piacenza, Italy.

10-10-2023

Invited lecture for the Forum interdisciplinare Ferdinando Rossi,

Title: "Intersoggettività e neuroni specchio".

Forum interdisciplinare Ferdinando Rossi; Torino, Italy.

13-04-2023

 Invited lecture during the "Neuroscience" course of the Bachelor degree in Philosophical Studies, University of Parma.

Title: "Bodily self and schizophrenia".

28-02-2023

• Invited lecture for the IFRA Master,

Title: "Neuroni Mirror: nuove prospettive per lo studio dell'Intersoggettività".

IFRA - Istituto per la formazione e la Ricerca applicata; Bologna, Italy.

21-01-2023/22-01-2023

Invited lecture for the NAAD Master,

Title: "From architecture to biology: Rhythms and perception".

IUAV University of Venice; Venice, Italy.

12-01-2023

 Invited lecture during the "Clinical Psychology" course of the Bachelor degree in Psychology, University of Parma.

Title: "Sé corporeo e schizofrenia".

24-11-2022

• Invited lecture for the Yoga Studies Master,

Title: "Cervello, corpo e psicopatologia".

Fondazione Università Cà Foscari; Milan, Italy.

08-10-2022

 Invited lecture during the "Neuroscience" course of the Bachelor degree in Philosophical Studies, University of Parma.

Title: "Multisensory Integration: basic principles & psychopathology".

11-05-2022





- Invited lecture at the School of Analytical Psychotherapy (AION), Bologna (Italy).
 Title: "Clinical psychology: a dialogue between neuroscience and psychotherapy".
 19-03-2022
- Invited lecture during the "Neuroscience" course of the Bachelor degree in Philosophical Studies, University of Parma.

Title: "Body identity and performativity of peripersonal space in schizotypy and schizophrenia". 13-05-2021

Publication Day: series of appointments of the "Mental Health" initiative.
 Department of Medicine and Surgery, University of Parma.

Invited seminars entitled:

- "Unravelling the motor roots of peripersonal space plasticity in schizophrenia" 03-11-2021
- "The plasticity of peripersonal space in schizotypy and schizophrenia" 05-11-2020
- "Multisensory integration processes in schizotypy and schizophrenia" 06-11-2019

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid

- Good level of knowledge of radiological imaging data processing and analysis programs, in particular SPM12 packages.
- Independent user of MATLAB software (e.g., experimental psychology paradigms programming in Matlab-Psychtoolbox).
- Proficient user of Microsoft Office instruments (Excel, Word, Power Point).
- Proficient user of statistical software packages for data analysis: SPSS, Statistica, R.
- Proficient user of Graphics software: Adobe Photoshop, Adobe Illustrator, Blender.

Other skills

Diagnostic testing and screening for SARS-CoV-2.

Driving licence

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ADDITIONAL INFORMATION

Pubblications

- Ferroni, F., Arcuri, E., Ardizzi, M., Chinchella, N., Gallese, V., & Ciaunica, A. (2024). Lost in time and space? Multisensory processing of peripersonal space and time perception in people with frequent experiences of depersonalisation. *Quarterly Journal of Experimental Psychology*, 17470218241261645.
- 2) Gallese, V., Ardizzi, M., & **Ferroni, F.** (2024). Schizophrenia and the bodily self. Schizophrenia Research, 269, 152-162.
- Ampollini, S., Ardizzi, M., Ferroni, F., & Cigala, A. (2024). Synchrony Perception Across Senses: A Systematic Review of Temporal Binding Window Changes From Infancy to Adolescence in Typical and Atypical Development. Neuroscience & Biobehavioral Reviews, 105711.
- 4) **Ferroni, F.**, Rabellino, D., Mazzeschi, C., & Ardizzi, M. (2024). The bodily self and its alterations: psychopathological, neural and theoretical aspects. *Frontiers in*



- Psychology, 15, 1447443.
- Garello, S., Ferroni, F., Gallese, V., Cuccio, V., Ardizzi, M. (2024). From breaking bread to breaking hearts. Embodied simulation and action language comprehension. Language, Cognition and Neuroscience, 1-13.
- Garello, S., Ferroni, F., Gallese, V., Ardizzi, M., & Cuccio, V. (2024). The role of embodied cognition in action language comprehension in L1 and L2. Scientific Reports, 14(1), 12781.
- Ardizzi, M., Ferroni, F., Manini, A., Giudici, C., Maccaferri, E., Uccelli, S., & Umiltà, M. A. (2023). The influence of sensorimotor experience on beauty evaluation of preschool children. Frontiers in Human Neuroscience, 17.
- 8) **Ferroni, F.**, & Gallese, V. (2022). Social bodily self: conceptual and psychopathological considerations. In The Routledge Handbook of Bodily Awareness (pp. 522-541). Routledge.
- 9) **Ferroni, F.**, Gallese, V., Soccini, A. M., Langiulli, N., Rastelli, F., Ferri, D., ... & Ardizzi, M. (2022). The Remapping of Peripersonal Space in a Real but Not in a Virtual Environment. Brain Sciences, 12(9), 1125.
- 10) Ferroni, F., Ardizzi, M., Magnani, F., Ferri, F., Langiulli, N., Rastelli, F., ... & Gallese, V. (2022). Tool-use Extends Peripersonal Space Boundaries in Schizophrenic Patients. Schizophrenia Bulletin.
- 11) Peciccia, M., Germani, A., Ardizzi, M., Buratta, L., Ferroni, F., Mazzeschi, C., & Gallese, V. (2022, February). Sense of self and psychosis, part 2: A single case study on amniotic therapy. In International Forum of Psychoanalysis (pp. 1-12). Routledge.
- 12) Peciccia, M., Buratta, L., Ardizzi, M., Germani, A., Ayala, G., Ferroni, F., ... & Gallese, V. (2022, February). Sense of self and psychosis, part 1: Identification, differentiation and the body; A theoretical basis for amniotic therapy. In International Forum of Psychoanalysis (pp. 1-11). Routledge.
- 13) Ardizzi, M., **Ferroni, F.**, Umiltà, M. A., Pinardi, C., Errante, A., Ferri, F., ... & Gallese, V. (2021). Visceromotor roots of aesthetic evaluation of pain in art: an fMRI study. *Social Cognitive and Affective Neuroscience*.
- 14) Calbi, M., Langiulli, N., **Ferroni, F.**, Montalti, M., Kolesnikov, A., Gallese, V., & Umiltà, M. A. (2021). The consequences of COVID-19 on social interactions: an online study on face covering. *Scientific reports*, *11*(1), 1-10.
- 15) Soccini, A. M., Ferroni, F., & Ardizzi, M. (2020). From Virtual Reality to Neuroscience and Back: a Use Case on Peripersonal Hand Space Plasticity. In 2020 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR) (pp. 394-396). IEEE.
- 16) Siri, F., Kolesnikov, A., Ardizzi, M., Calbi, M., Ferroni, F., Ferro, A. M., ... & Gallese, V. (2020). The Perceptual Experience of Portraits and Self-Portraits: A Behavioural and Eye-Tracking Study. Available at SSRN 3519045.
- 17) **Ferroni, F.**, Ardizzi, M., Ferri, F., Tesanovic, A., Langiulli, N., Tonna, M., ... & Gallese, V. (2020). Schizotypy and individual differences in peripersonal space plasticity. *Neuropsychologia*, 107579.
- Ardizzi, M., Ambrosecchia, M., Buratta, L., Ferri, F., Ferroni, F., Palladini, B., ... & Gallese, V. (2020). The motor roots of minimal self disorders in schizophrenia. Schizophrenia research, 218, 302-303.
- 19) Sandsten, K. E., Nordgaard, J., Kjaer, T. W., Gallese, V., Ardizzi, M., **Ferroni, F.**, ... & Parnas, J. (2020). Altered self-recognition in patients with schizophrenia. *Schizophrenia Research*.
- 20) Ardizzi, M., Ferroni, F., Siri, F., Umiltà, M. A., Cotti, A., Calbi, M., ... & Gallese, V.





(2020). Beholders' sensorimotor engagement enhances aesthetic rating of pictorial facial expressions of pain. *Psychological Research*, 84(2), 370-379.

- 21) **Ferroni, F.**, Ardizzi, M., Sestito, M., Lucarini, V., Daniel, B. D., Paraboschi, F., ... & Gallese, V. (2019). Shared multisensory experience affects Others' boundary: The enfacement illusion in schizophrenia. *Schizophrenia research*, 206, 225-235.
- 22) Siri, F., Ferroni, F., Ardizzi, M., Kolesnikova, A., Beccaria, M., Rocci, B., ... & Gallese, V. (2018). Behavioral and autonomic responses to real and digital reproductions of works of art. In Progress in brain research (Vol. 237, pp. 201-221). Elsevier.
- 23) Ardizzi, M., Evangelista, V., Ferroni, F., Umiltà, M. A., Ravera, R., & Gallese, V. (2017). Evidence for Anger Saliency during the Recognition of Chimeric Facial Expressions of Emotions in Underage Ebola Survivors. Frontiers in psychology, 8, 1026.

Oral and poster presentations

Oral presentation

ESCAN 2024: Your space and mine: peripersonal space expansion in a social context and its shrinkage in trait anxiety

Ferroni F., Gallese V., Rastelli F., Ardizzi M.

Poster

BRNet 2023: Your space or mine: trait anxiety shapes the peripersonal space expansion in a social context

Ferroni F., Rastelli F., Gallese V., Ardizzi M.

 Oral presentation - Symposium: "Disturbi psicotici: un approccio computazionale" <u>SOPSI 2023</u>: Confini dello spazio peripersonale e schizofrenia Ferroni F.

Poster presentation

SIPF 2022: Tool-use extends peripersonal space boundaries in schizophrenic nations

Ferroni F., Ardizzi M., Magnani F., Ferri F., Langiulli N., Lucarini V., Tonna M., Gallese V.

Oral presentation

ESCAN 2022: Tool-use extends peripersonal space boundaries in schizophrenic patients

Ferroni F., Ardizzi M., Magnani F., Ferri F., Langiulli N., Tonna M., Gallese V.

Oral presentation

AISC 2022: Tool-use extends peripersonal space boundaries in schizophrenic patients

Ferroni F., Ardizzi M., Magnani F., Ferri F., Langiulli N., Tonna M., Gallese V.

Oral presentation - Symposium

SOPSI 2022: Motricità e Spazio: prime evidenze di una inalterata plasticità dello spazio peripersonale nella schizofrenia

Ferroni F.

Oral presentation

BRNet 3 2021 (Virtual Edition): The missing genesis: the effects of prenatal and postnatal adverse experiences on basic self-development.

Ferroni F., Calbi M., Ardizzi M.

Oral presentation

ESCAN 2021 (Virtual Edition) Schizotypy and individual differences in peripersonal space plasticity.

Ferroni F., Ardizzi M., Ferri F., Tesanovic A., Langiulli N., Tonna M., Marchesi C., Gallese V.

Oral presentation

IX Congresso Nazionale della Società italiana di Neuropsicologia (SINP 2020 -





<u>Virtual Edition</u>): Schizotypy and individual differences in peripersonal space plasticity.

Ferroni F., Ardizzi M., Ferri F., Tesanovic A., Langiulli N., Tonna M., Marchesi C., Gallese V.

Oral presentation

IX Congresso Nazionale della Società italiana di Neuropsicologia (SINP 2020 – Virtual Edition): The motor roots of minimal self disorders in schizophrenia.

Ardizzi M., Ambrosecchia M., Ferri F., Ferroni F., Gallese V.

• Oral presentation

<u>The fuzzy body: stable and dynamic properties of Body Representation</u> – Milan, Italy (05/07/2019): Shared multisensory experience affects Others' boundary: The enfacement illusion in schizophrenia.

Ferroni F., Ardizzi M., Sestito M., Lucarini V., Daniel B. D., Paraboschi F., Tonna M., Marchesi C., Gallese V.

Oral and Poster presentation

International Summer School in "Body, Senses and Neural Oscillations: an integrated approach to human perception and behaviour 2019"- Pescara, Italy (03/06/2019-08/06/2019): Shared multisensory experience affects Others' boundary: The enfacement illusion in schizophrenia.

Ferroni F., Ardizzi M., Sestito M., Lucarini V., Daniel B. D., Paraboschi F., Tonna M., Marchesi C., Gallese V.

Poster presentation

Skin to Self Meeting 2019 in London (01/04/2019 - 02/04/2019): Shared multisensory experience affects Others' boundary: The enfacement illusion in schizophrenia.

Ferroni F., Ardizzi M., Sestito M., Lucarini V., Daniel B. D., Paraboschi F., Tonna M., Marchesi C., Gallese V.

• Talk and Poster presentation

<u>European Workshop on Cognitive Neuropsychology</u> (EWCN) 2018: *Back to Einfühlung: Motor enactment of facial expressions increases explicit aesthetic judgment of artworks.*

Ferroni F., Ardizzi M., Siri F., Umiltà M.A., Gallese V.

Congress organization

Organizer of the symposium "Multisensory integration 40 years later: three outstanding topics on the table" of SIPF (Società Italiana di Psicofisiologia e Neuroscienze Cognitive) congress (09/11/2023 – 11/11/2023)

First International Women in Neuroscience Parma Workshop – The sense of Touch

(30/09/2021-01/10/2021)

Organizer of the Internal Seminars of the Department of Medicine & Surgery, Unit of Neuroscience (01/2018-12/2020)

Courses

Course of statistical data analysis with R (01/2019-05/2019) University of Parma

Course of Transcranial magnetic stimulation (TMS) (10/2021) University of Parma

Course of Python (03/2021-05/2021) University of Parma

Principles of fMRI 1 (04/2022) (4 weeks), Johns Hopkins University, accessible via Coursera.

Principles of fMRI 2 (10/2022) (4 weeks), Johns Hopkins University, accessible via



Coursera.

Honours and awards FIL-Quota Incentivante of University of Parma, co-sponsored by Fondazione

Cariparma - 2020

P.I.: Dr. Martina Ardizzi

Team members: Francesca Ferroni, Nunzio Langiulli, Antonino Errante, Agata

Soccini.

Member of Società Italiana di Psicofisiologia e Neuroscienze Cognitive (SIPF).

2023-present

Member of Schizophrenia International Research Society (SIRS).

2021-present

Member of The European Society for Cognitive and Affective Neuroscience

(ESCAN). 2020-present

Member of the Interdepartmental Center for Neuroimaging (CIN), University of

Parma 2024-present

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16

Parma, 9th September 2024

In faith,

Francesca Ferroni