

**Martina Ardizzi**  
*Fixed-term Researcher*  
*Department of Medicine & Surgery – Unit of Neuroscience*  
*University of Parma, Parma, Italy*

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## SCIENTIFIC PROFILE

Affiliation	Department of Medicine & Surgery – Unit of Neuroscience; University of Parma, Parma, Italy
ORCID ID	orcid.org/0000-0001-9185-6784
Scopus Author ID	55232873800
Scopus citations	237
Scopus <i>h</i> -Index	9
National Scientific Qualification	Academic Recruitment Field: 11/E1 – GENERAL PSYCHOLOGY, PSYCHOBIOLOGY AND PSYCHOMETRICS NSQ as Associate professor Validity: Nov 5 <sup>th</sup> , 2018 – Nov 5 <sup>th</sup> 2027 Academic Recruitment Field: 11/E2 – DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY NSQ as Associate professor Validity: July 12 <sup>th</sup> , 2018 – July 12 <sup>th</sup> 2027
Research interests	<ul style="list-style-type: none"><li>• The neurobiological bases of Bodily-Self and Self-other distinction among healthy population and along the schizophrenia spectrum (i.e., schizotypy, full-blown schizophrenia patients);</li><li>• Multisensory integration processes and their role in peripersonal space representation;</li><li>• Effects of childhood trauma on the neurophysiological bases of intersubjectivity;</li><li>• Neurophysiological bases of Aesthetic experience</li></ul>
Research techniques	<ul style="list-style-type: none"><li>• Functional Magnetic Resonance</li><li>• Facial electromiography</li><li>• Autonomic Nervous System recordings (i.e., Electrocardiogram, Galvanic Skin Response, pupillometry)</li><li>• Eye-tracker</li></ul>

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## EDUCATION

October 10, 2014 - to date	<b>Admitted to the Emilia-Romagna Psychologists Register (n.7897)</b> Register of Emilia-Romagna Psychologists, Bologna (Italy)
March 3, 2015	<b>PhD in Neurosciences</b> , University of Parma. Title of the thesis: “ <i>The effects of repetitive traumatic experiences on emotions recognition, Facial Mimicry and Autonomic Regulation</i> ”, supervisor Prof. Vittorio Gallese.
July 7, 2010	<b>Master’s degree in Neurosciences and neuropsychological rehabilitation</b> at Alma Mater Studiorum University of Bologna, Campus of Cesena, School of Psychology. Final mark: 110/110 cum laude Title of the thesis: “ <i>Implicit and explicit processing of self and other’s body-parts</i> ”, supervisor Prof. Frassinetti Francesca.
July 7, 2008	<b>Bachelor’s degree in Behavioral and Social relationships sciences</b> at Alma Mater Studiorum University of Bologna, Campus of Cesena, School of Psychology. Final mark: 110/110 cum laude Title of the thesis: “ <i>Differential diagnosis between hemianopsia and neglect through the clinic comparison test</i> ”, supervisor Prof. Frassinetti Francesca.

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## CURRENT POSITION

Apr 1, 2020 – to date **Fixed-Term Researcher** at the Department of Medicine & Surgery – Unit of Neuroscience, University of Parma.  
Academic Discipline: M-PSI/02 – PSYCHOBIOLOGY AND PHYSIOLOGICAL PSYCHOLOGY

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## PREVIOUS POSITIONS

May, 2016 – March, 2020 **Post-doctoral research fellow** at the Department of Medicine and Surgery, University of Parma, Parma, Italy  
Research topic: The effects of early traumatic experiences on visual scan path supporting facial expressions of emotions recognition among Sierra Leonean adolescents: an ethnographic study  
Academic discipline: M-PSI/02  
Tutor: Prof. Gallese Vittorio

October, 2018 – November, 2018 **Visiting post-doc**, Assam Don Bosco University, Department of Psychology and Counselling, Guwahati, India

March, 2017 – April, 2017 **Visiting post-doc**, Humboldt-Universität zu Berlin, Berlin, Germany

October, 2016 – January, 2017 **Visiting post-doc**, Department of Psychology, University of Essex, Colchester, UK

January, 2013 – December, 2015 **Scientific director** for FMH-Italia ONLUS  
FHM-Italia, Sanremo (IM), Italy

January, 2011 – March, 2014 **PhD program** in Neuroscience, University of Parma, director Prof. Vittorio Gallese, supervisor Prof. Vittorio Gallese

October, 2010 – June, 2012 **Fixed-term experimental psychologist** for the European Grant ALCOTRA 2007-2013 n.66 "Peer education" tra i giovani, promozione e responsabilità nella salute"  
AUSL 1 Imperiese – Department of Psychology, Imperia, Italy

July, 2009 – November, 2009 **Internship** at the Cognitive and Memory disorders center, Bologna Hospital, under the supervision of Dott. Piero Pagni

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## FELLOWSHIPS & AWARDS

2016 Post-doctoral fellowship at the Department of Neuroscience, University of Parma. Title of the project: "The effects of early traumatic experiences on visual scan path supporting facial expressions of emotions recognition among Sierra Leonean adolescents: an ethnographic study"

2013 VII° Codisco Award for "Interoceptive sensitivity and social relationships" project

2012 Scholarship money for research merits bestowed by FHM-Italia Onlus

2011 Winner of the competitive call for PhD in Neuroscience, University of Parma.

2010 "Guido Paolucci" Rotary Club Prize as best graduate for the A.A. 2009/2010 in the course in Psychology at the University of Bologna

2010 Prize money as Best Student of the course in Psychology at the University of Bologna

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## RECENT REVIEW ACTIVITIES

Reviewer for several international indexed journals: Among others, Child abuse and neglect; Frontiers (in psychology, in human neuroscience); International Journal of Psychophysiology; Cortex; Brain Sciences; Emotion; Scientific Reports.

Reviewer for European research funding agencies: SNF

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## TEACHING ACTIVITIES

A.Y. 2019/2020 – to date **Professor of "General Psychology"**, for the Bachelors courses of Audioprothetic techniques, Physiotherapy and Sport sciences, physical exercise and human health, University of Parma, Parma, Italy

A.Y. 2017-2018 – to date	<b>Professor of “Neuropsychology Laboratory”</b> , Psychological Sciences and Techniques, University of Modena and Reggio Emilia, Modena, Italy
A.Y. 2016-2017	<b>Contract professor of “Clinical Ethno-psychology”</b> , School of Education Sciences, Torino Rebaudengo Salesian University Institute affiliated to the Pontifical Salesian University, Torino, Italy
2010 – to date	<b>Contract teacher</b> for first and second level University Masters, Psychotherapy Schools, Medical Specialization Schools and Training Institutions. The lectures primarily concern the topics of my research interests and are mainly aimed at health professionals and educators in psycho-social contexts (physicians, nurses, psychotherapists, psychologists, educators, teachers).

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## MAJORS COLLABORATIONS

Gallese Vittorio	Department of Medicine and Surgery, University of Parma, Parma, Italy
Ferri Francesca	Department of Neuroscience, Imaging and Clinical Sciences, University of Chieti-Pescara, Pescara, Italy
Zirui Huang	Department of Anesthesiology and Center for Consciousness Science, University of Michigan, Ann Arbor, USA
Kaltwasser Laura	Berlin School of Mind and Brain, Humboldt-Universität zu Berlin, Berlin, Germany
Ioannou Staphanos	Department of Physiology College of Medicine Alfaisal University Riyadh Saudi Arabia; Department of Life Sciences & Centre for Cognitive Neuroscience Brunel University London Uxbridge Middlesex UK.
Guerra Michele	Department of Arts and Literature, History and Social Studies, University of Parma.
Giudici Claudia	Reggio Children Foundation– International Centre Loris Malaguzzi, Reggio Emilia, Italia
Porges Stephen	Traumatic Stress Research Consortium, Kinsey Institute, Indiana University, Bloomington, IN, United States and Department of Psychiatry, University of North Carolina, Chapel Hill, NC, United States
Ferrari Pier Francesco	Institut des Sciences Cognitives Marc Jeannerod, CNRS, Université de Lyon, Bron, France

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## PUBLICATIONS

- Scientific papers
- Ardizzi, M.**, Calbi, M., Tavaglione, S., Umiltà, M. A., & Gallese, V. (2020). Audience spontaneous entrainment during the collective enjoyment of live performances: physiological and behavioral measurements. *Scientific Reports*, 10(1), 1-12.
  - 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*.
  - Ardizzi, M.** (2020). Una prospettiva integrata per un'estetica empirica. *Giornale italiano di psicologia*, 47(1), 95-100.
  - 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.
  - 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*.
  - Kaltwasser, L., Rost, N., **Ardizzi, M.**, Calbi, M., Settembrino, L., Fingerhut, J., ... & Gallese, V. (2019). Sharing the filmic experience-The physiology of socio-emotional processes in the cinema. *PloS one*, 14(10).
  - De Stefani, E., **Ardizzi, M.**, Nicolini, Y., Belluardo, M., Barbot, A., Bertolini, C., ... & Ferrari, P. F. (2019). Children with facial paralysis due to Moebius syndrome exhibit reduced autonomic modulation during emotion processing. *Journal of neurodevelopmental disorders*, 11(1), 12.
  - 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.

9. Benuzzi, F., Lui, F., **Ardizzi, M.**, Ambrosecchia, M., Ballotta, D., Righi, S., ... & Porro, C. A. (2018). Pain mirrors: neural correlates of observing self or others' facial expressions of pain. *Frontiers in psychology*, 9.
10. 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.
11. **Ardizzi, M.**, & Ferri, F. (2018). Interoceptive influences on peripersonal space boundary. *Cognition*, 177, 79-86.
12. **Ardizzi, M.**, Evangelista, V., Ferroni, F., Umiltà, M.A., Ravera, R. and Gallese, V. (2017). Evidence for Anger Saliency during the Recognition of Chimeric Facial Expressions of Emotions in Underage Ebola Survivors. *Frontiers in Psychology*, 8.
13. Ambrosecchia, M., **Ardizzi, M.**, Russo, E., Ditaranto, F., Speciale, M., Vinai, P. P., ... & Gallese, V. (2017). Interoception and Autonomic Correlates During Social Interactions. Implications for Anorexia. *Frontiers in Human Neuroscience*, 11.
14. Ferrari P.F., Barbot A., Bianchi B., Ferri A., Garofalo G., Bruno N., Coude G., Bertolini C., **Ardizzi M.**, Nicolini Y., Belluardo M., De Stefani E. (2017). A proposal for new neurorehabilitative intervention on moebius syndrome patients after 'smile surgery'. Proof of concept based on mirror neuron system properties and hand-mouth synergistic activity. *Neuroscience & Biobehavioral Reviews*, 76, 111-122.
15. **Ardizzi, M.**, Umiltà, M. A., Evangelista, V., Di Liscia A., Ravera, R., & Gallese, V. (2016). Less empathic and more reactive: the different impact of childhood maltreatment on facial mimicry and vagal regulation. *PloS one*, 11(9), e0163853.
16. **Ardizzi, M.**, Ambrosecchia, M., Buratta, L., Ferri, F., Peciccia, M., Donnari, S., Mazzeschi, C., Gallese, V. (2016). Interoception and positive symptoms in Schizophrenia. *Frontiers in Human Neuroscience*, 10.
17. Di Dio, C., **Ardizzi, M.**, Massaro, D., Di Cesare, G., Gilli, G., Marchetti, A., & Gallese, V. (2015). Human, Nature, Dynamism: The effects of content and movement perception on brain activations during the aesthetic judgment of representational paintings. *Frontiers in Human Neuroscience*, 9.
18. **Ardizzi, M.**, Martini, F., Umiltà, M. A., Evangelista, V., Ravera, R., & Gallese, V. (2015). Impact of Childhood Maltreatment on the Recognition of Facial Expressions of Emotions. *PloS one*, 10(10), e0141732.
19. Vinai, P., Speciale, M., Vinai, L., Vinai, P., Bruno, C., Ambrosecchia, M., ... & Gallese, V. (2015). The clinical implications and neurophysiological background of using self-mirroring technique to enhance the identification of emotional experiences: an example with rational emotive behavior therapy. *Journal of Rational-Emotive & Cognitive-Behavior Therapy*, 33(2), 115-133.
20. **Ardizzi, M.**, Sestito, M., Martini, F., Umiltà, M.A., Ravera, R. e Gallese, V. (2014). When Age Matters: Differences in Facial Mimicry and Autonomic Responses to Peers' Emotions in Teenagers and Adults. *PLoS ONE* 9(10): e110763.
21. Ferri, F., **Ardizzi, M.**, Ambrosecchia, M., Gallese, V. (2013). Closing the Gap between the Inside and the Outside: Interoceptive Sensitivity and Social Distances. *PLoS ONE* 8(10): e75758.
22. **Ardizzi, M.**, Martini, F., Umiltà, M.A., Sestito, M., Ravera, R. (2013). When Early Experiences Build a Wall to Others' Emotions: An electrophysiological and Autonomic Study. *PLoS ONE* 8(4): e61004.
23. Ferri, F., Frassinetti, F., **Ardizzi, M.**, Costantini, M., Gallese, V. (2012). A sensorimotor network for the bodily self. *J. Cogn. Neurosci.*, 24(7):1584-95.

Book chapters

1. **Ardizzi Martina** (2018) "Neurobiologia della relazione di cura". In: Liuva Capezzani (Ed.), "La relazione di cura medico-paziente. Cosa c'è ancora da sapere". Padova: LINEA edizioni.
2. Gallese Vittorio & **Ardizzi Martina** (2017) "Il senso del colore. Tra mondo, corpo e cervello". In: Carolyn Christov-Bakargiev, Marcella Beccaria (Eds.), "COLORI. L'emozione dei colori

nell'arte". Milano: Silvana Editoriale.

3. **Ardizzi Martina**, "Interoceptive Sensitivity and Social Relationships". In: "Reti, Saperi, Linguaggi, Italian Journal of Cognitive Science" Vol.3, 2014 n.2. Bologna: il Mulino

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## INVITED TALKS AND CONFERENCE TALKS

- Oral presentation **Ardizzi M.** *The impact of childhood trauma on the development of intersubjectivity*. Symposium Action and Emotion: a door to understand the will and its disorders, 7 Dicembre 2018. Università la Sapienza di Roma (Italy)
- Ardizzi M.** *The sensorymotor roots of aesthetic evaluation*. Perspective in Neuroaesthetics, VDS CoBeNe Summer School, 24-28 Settembre 2018. Institute of Philosophy – School of Advanced Study, University of London, London (UK)
- Ardizzi M.** *The sensorymotor roots of aesthetic evaluation: new perspectives*. Me. B.A.S.S. Art & Science Symposium. 15 Settembre 2018, Mannheim (Germany).
- Ardizzi M.** *The sensorymotor roots of aesthetic evaluation*. Being Moved: Art, film, narrative and the body-brain. 1-4 Giugno 2018, Berlin School of Mind and Brain, Humboldt-University Berlin (Germany).
- Ardizzi M.** *The Genesis of Self in trauma*. Automaton. Vita, Differenza, Ripetizione. 30-31 Maggio 2018, Dipartimento di scienze umane, Università di Verona, Verona (Italy)
- Ardizzi M.** *The Impact of Childhood Trauma on the Development of Intersubjectivity*. Deutschsprachige Gesellschaft für Psychotraumatologie (DeGPT). March 1-3, 2018. Dresden (Germany).
- Ardizzi M.** *Stronger connectivity between right Anterior Insula and Default Mode Network predicts low interoceptive accuracy in high-schizotypy individuals*. European Workshop on Cognitive Neuropsychology. January 22-26, 2018, Bressanone (Italy).
- Ardizzi M.**, *The (De-)construction of intersubjectivity: the case of childhood traumatic experiences*. " Sé corporeo e intersoggettività nella psicopatologia". Dipartimento di salute mentale e dipendenze dell'ASL2 Savonese. November 3, 2017. Savona (Italy).
- Ardizzi M.**, *The role of the "Body" in psychopathology: a neuroscientific approach*. " Sé corporeo e intersoggettività nella psicopatologia". Dipartimento di salute mentale e dipendenze dell'ASL2 Savonese. November 3, 2017. Savona (Italy).
- Ardizzi M.** *Experimental aesthetic between Art, Body and Brain*. NO TITLE conference. November 8, 2017. Milano (Italy).
- Ardizzi M.** *At the origin of Empathy*. XVII Corso residenziale di psicopatologia fenomenologica "Arnaldo Ballerini". November 17-18, 2017. Figline Valdarno (Italy)
- Ardizzi M.** *From the Brain-Body system to intersubjectivity: a neuroscientific perspective*. National Congress of the Italian Neuroscience Society. October 1-4, 2017. Ischia (Italy)
- Ardizzi M.** *The motor cognition*. Giornate psichiatriche cerignalesi. October 6-7, 2017. Cerignale (Italy).
- Ardizzi M.** *Trauma, coping and resilience in the development of intersubjectivity*. "(De)Costruzione dell'intersoggettività nell'adolescenza: una prospettiva neuroscientifica, clinica e antropologica". S.C. Psicologia. September 8, 2017. Sanremo (Italy).
- Ardizzi M.** *Early maltreatment and the physiological mechanisms of intersubjectivity*. 48° Convegno di Studio, Accademia di psicoterapia della famiglia. June 23-24, 2017. Roma (Italy).
- Ardizzi M.**, *Bodily Self and Intersubjectivity: the study of early traumatic experience*. Giornate Ascolane di Psichiatria. May 11-12, 2017. Ascoli Piceno (Italy).
- Ardizzi M.**, Umiltà M.A., Ravera R., Evangelista V., Gallese V., *The impact of prolonged maltreatment and neglect on the physiological mechanisms supporting humans' social nature: a study of Sierra Leonean street-boys*. Childhood Trauma Conference. June 8, 2016. Melbourne, Australia.
- Ardizzi M.**, *The role of the "Body" in the "Beauty": a neuroscientific approach to Aesthetic experience*. Associazione per il Design Industriale. January 27, 2016. Firenze (Italy).

**Ardizzi M.**, *Bodily Self, Interoception and Autonomic regulation in Anorexia Nervosa*. "intreccio psiche – soma: psicopatologia e disturbi del comportamento alimentare". Dipartimento di salute mentale e dipendenze dell'ASL2 Savonese. November 13, 2015. Savona (Italy).

**Ardizzi M.**, *Mirror Neurons and Embodied Cognition: Neuroscience and cognitive development*. MONDIPARALLELI saperi matematici e infanzia. AUGEO. March 6-7, 2015. Reggio Emilia (Italy).

**Ardizzi M.**, *Mirror Neuron Mechanisms: a neurophysiological contribution to the study of Intersubjectivity*. "Gravidanza e Puerperio tra normalità e patologia". Dipartimenti materno infantile – cure primarie e attività distrettuali – salute mentale e dipendenze dell'ASL2 Savonese. November 21, 2014. Pietra Ligure (Italy).

**Ardizzi M.**, *Emotions and motor resonance: the effect of early traumatic experiences*. Giornate italo-francesi di psicomotricità e riabilitazione neuro psicomotoria. April 4-6, 2014. Milano Bicocca (Italy).

**Ardizzi M.**, *Mirror Neurons, embodiment simulation and social interactions*. Giornate italo-francesi di psicomotricità e riabilitazione neuro psicomotoria. April 4-6, 2014. Milano Bicocca (Italy).

**Ardizzi M.**, *Mirror Neurons, Empathy and Bodily-self*. Spaziare01, March 21-23, 2014. Castelnuovo Berardenga (Italy).

**Ardizzi M.**, *Interoceptive Awareness and Social Relation*. 7° convegno CODISCO, 28-30 November 2013, Noto (Italy).

Abstract/Poster **Ardizzi M.**, Perrucci M.G., Huang Z., Romani G.L., Ferri F. *Stronger connectivity between right Anterior Insula and Default Mode Network predicts low interoceptive accuracy in high-schizotypy individuals*. European Workshop on Cognitive Neuropsychology. January 22-26, 2018. Bressanone (Italy).

**Ardizzi M.**, Perrucci M.G., Huang Z., Romani G.L., Ferri F. *Hyperconnectivity between DMN and rAI predicts low interoception in high-schizotypy individuals*. Me & I workshop, Berlin School of Mind and Brain - Humboldt University - Einstein Foundation, March 15-16, 2017. Berlin (Germany)

**Ardizzi M.**, Ambrosecchia M., Capetta A., Ferri F., Gallese V., *Interoceptive sensitivity and autonomic regulation during social interaction in Schizophrenia*. 23rd European Congress of Psychiatry. March 28-31, 2015. Vienna (Austria).

**Ardizzi M.**, Ambrosecchia M., Buratta L., Peciccia M., Donnari S., Mazzeschi C., Gallese V. *Autonomic regulation during social interaction in schizophrenia*. 9th FENS Forum of Neuroscience, July 5-9, 2014. Milano (Italy).

In faith,  
Parma, July 22<sup>th</sup>, 2020

Martina Ardizzi