

Martina Ardizzi
Post-doctoral researcher
Department of Medicine & Surgery – Unit of Neuroscience
University of Parma, Parma, Italy

PERSONAL INFORMATION

Date of birth November 23, 1986
Nationality Italian
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SCIENTIFIC PROFILE

Affiliation Department of Medicine & Surgery – Unit of Neuroscience; University of Parma, Parma, Italy

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Scopus citations 111

Scopus *h*-Index 5

Research interests

- Interoception and its functional role in healthy participants and clinical populations (i.e., schizophrenia, anorexia nervosa, PTSD)
- The neurobiological bases of Bodily-Self and Self-other distinction among healthy population and along schizophrenia spectrum (i.e., schizotypy, full-blown schizophrenia patients)
- Effects of childhood trauma on the neurophysiological bases of intersubjectivity
- Neurophysiological bases of Aesthetic experience

Research techniques

- Functional Magnetic Resonance
- Facial electromiography
- Autonomic Nervous System recordings (i.e., Electrocardiogram, Galvanic Skin Response, pupillometry)
- Eye-tracker

EDUCATION

March 3, 2015 **PhD in Neuroscience**, University of Parma.
Title of the thesis: “*The effects of repetitive traumatic experiences on emotions recognition, Facial Mimicry and Autonomic Regulation*”, supervisor Prof. Vittorio Gallese.

July 7, 2010 **Master’s degree in Neuropsychology and Life-long Functional Rehabilitation** at Alma Mater Studiorum University of Bologna, Campus of Cesena, School of Psychology.
Final mark: 110/110 cum laude
Title of the thesis: “*Implicit and explicit processing of self and other’s body-parts*”, supervisor Prof. Frassinetti Francesca.

July 7, 2008 **Bachelor’s degree in Behavioral and Social relationships sciences** at Alma Mater Studiorum University of Bologna, Campus of Cesena,

School of Psychology.
Final mark: 110/110 cum laude
Title of the thesis: “*Differential diagnosis between hemianopsia and neglect through the clinic comparison test*”, supervisor Prof. Frassinetti Francesca.

CURRENT POSITION

May 5, 2016 – to date **Post-doctoral researcher** at the Department of Medicine & Surgery – Unit of Neuroscience, University of Parma.
Title of the project: “The effects of early traumatic experiences on visual scan path subserving facial expressions of emotions recognition among Sierra Leonean adolescents: an ethnographic study” under the supervision of Prof. Vittorio Gallese

PREVIOUS POSITIONS

October, 2016 – January 2017 Visiting post-doc, Department of Psychology, University of Essex, Colchester (UK)
January, 2011 – March, 2014 PhD program in Neuroscience, University of Parma, director Prof. Vittorio Gallese, supervisor Prof. Vittorio Gallese
July, 2009 – November, 2009 Internship at the Cognitive and Memory disorders center, Bologna Hospital, under the supervision of Dott. Piero Pagni

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 subserving 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

RECENT REVIEW ACTIVITIES

- Frontiers • Montag, C., & Panksepp, J. (2017). Primary emotional systems and personality: an evolutionary perspective. *Frontiers in Psychology*, 8.
- Pistoia, F., Carolei, A., Sacco, S., & Sarà, M. (2017). Commentary: Embodied Medicine: Mens Sana in Corpore Virtuale Sano. *Frontiers in Human Neuroscience*, 11, 381.

International Journal of Psychophysiology
Brain sciences
Child Abuse & Neglect

TEACHING ACTIVITIES

- A.Y. 2017-2018 Contract professor of “Neuropsychology Laboratory”, Psychological Sciences and Techniques, University of Modena and Reggio Emilia, Modena, Italy
- A.Y. 2016-2017 Contract professor of “Clinical Ethno-psychology”, School of Education Sciences, Torino Rebaudengo Salesian University Institute affiliated to the Pontifical Salesian University, Torino, Italy
- 2015 – to date Contract teacher of “The functional role of Mirror Neurons in Human”, Applied Education and Research Institute (I.F.R.A.), Bologna, Italy
- 2017 Contract teacher of “The functional role of Mirror Neurons in Human”, Lombarda Psychotherapy School (SLOP), Pavia-Retorbido, Italy
- 2016 Contract teacher of “Mirror Neurons, Empathy and Bodily-Self”, II level University Master Course in Yoga Studies, Venezia, Italy
- 2016 Contract teacher of “The effects of maltreatment and neglect on empathic mechanisms: what happens among Sierra Leonean street-boys”, Misiones Salesianas, Freetown, Sierra Leone
- 2010 Contract teacher of “Pain physiology, Placebo Effect and Others’ pain”, Rizzoli Institute, Bologna, Italy
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MAJORS COLLABORATIONS

- Ferri Francesca Department of Psychology, University of Essex, Colchester, UK
- 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.
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PUBBLICATIONS

- **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.
- 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.
- 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.
- **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.

- **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.
 - 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.
 - **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.
 - **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.
 - 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.
- * These authors contributed equally to this work
- **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.
 - 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.

INVITED TALKS AND CONFERENCE TALKS

- Oral presentation **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. *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).