

**NAME****Francesca Garbarini, PhD****POSITION**

Associate Professor (M-PSI/02)

Psychology Department, University of Turin, Italy

**Citizenship:** Italian

**Business address:** Department of Psychology, Via Verdi 10, 10124 Turin, Italy

**Phone:** +39 011 6703044

**Fax:** +39 011 8159039

**Email addresses:** [francesca.garbarini@unito.it](mailto:francesca.garbarini@unito.it)

**Skype:** francesca.garbarini

**Virtual room:** <https://unito.webex.com/meet/francesca.garbarini>

**Researcher identifier:** ORCID: 0000-0003-1210-0175  
Web of Science: L-9350-2019  
Scopus: 6504829019

**URL webpage:** [http://www.dippsicologia.unito.it/do/docenti.pl/Show?\\_id=fgarbari](http://www.dippsicologia.unito.it/do/docenti.pl/Show?_id=fgarbari)  
<https://manibuslab.wixsite.com/manibus>

**Highlights**

- 2012: PhD in Neuroscience, Department of Psychology, University of Turin, Italy
- 2015: Assistant Professor (M-PSI/02), Psychology Department, University of Turin, Italy
- 2018: Coordinator of the MANIBUS research group, Psychology Department, University of Turin, Italy
- 2019: Associate Professor (M-PSI/02), Psychology Department, University of Turin, Italy
- 79 papers in peer-reviewed journals, several book chapters, one book and >70 abstracts at scientific meetings (Citations: 1872/1316; H-index: 25/23; from Scholar/Scopus)
- Funded by the “Scientific Independence of young Researchers” (SIR) MIUR grant (2014) and by the “Excellent Young PI” San Paolo Foundation grant (2016)
- Several invited lectures and oral presentations at international meetings and research/academic Institutions
- Organizer of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), November 15<sup>th</sup> -17<sup>th</sup> 2018, Turin, Italy
- Her research activity in cognitive neuroscience, mainly in the field of motor and body awareness, reached a very large audience through interviews and press communications (e.g. BBC, The Guardian, RAI 3, La Repubblica)

**EDUCATION**

- 2012 Ph.D. In Neuroscience**  
Department of Psychology, University of Turin
- 2003 Master in Science Communication (100/100 cum Laude)**  
"Il rasoio di Occam", Turin, Italy
- 2003 Degree in Philosophy (110/110 cum Laude)**  
University of Turin, Italy
- 1996 High school degree**  
Classical Liceum Massimo D'Azeglio of Turin, Italy

**ACADEMIC APPOINTMENTS**

- 2019- Associate Professor (M-PSI/02)**  
Psychology Department, University of Turin
- 2018- Coordinator of the MANIBUS (Movement and body in behavioral and physiological neuroscience) research group**  
Psychology Department, University of Turin
- 2017- Italian national scientific habilitation for Associate Professorship in General Psychology, Psychobiology and Psychometry (11/E1) - ASN 2016**
- 2015- Assistant Professor (M-PSI/02)**  
Psychology Department, University of Turin
- 2012-2014 Post Doc position**  
Psychology Department, University of Turin
- 2006- Expert in Neuropsychology (M-PSI/02)**  
Psychology Department, University of Turin
- 2005-2012 PhD Student (maternity leave: 29/12/2006-29/12/2007; 28/09/2008-28/09/2009)**  
Faculty of Psychology, University of Turin

**FELLOWSHIPS**

- 2014-2016 San Paolo Foundation Grant 2012 to Francesca Garbarini (Post doc position)**  
Project entitled "The role of visual imagery in lexical processing: a functional neuroimaging study in healthy subject and in brain damaged patients"; supervisor Dr. Katuscia Sacco, Psychology Department, University of Turin
- 2013-2014 MIUR Grant to Francesca Garbarini (Post Doc position)**  
Project entitled "Neural basis of motor and bodily awareness"; supervisor prof. Berti, Psychology Department, University of Turin
- 2003-2005 Piedmont Region Grant to Francesca Garbarini (postgraduate scholarship)**

**GRANTS***Research projects grants*

- As principal investigator:**
- 2022- San Paolo Foundation (Bando Trapezio - Paving the way to research excellence and talent attraction ) to Francesca Garbarini**  
Project entitled "Heteromodal remapping in primary cortical areas: linking cellular mechanisms, circuits and behavior" (funding: € 25.000)
- 2017-2019 San Paolo Foundation (Excellent Young PI) 2016 Grant to Francesca Garbarini**  
Project entitled "The body in human and monkey brain" (code number: CSTO165140; funding: € 78.966,23)
- 2015-2018 MIUR-SIR (Scientific Independence of Young Researchers) 2014 Grant to Francesca Garbarini**  
Project entitled "The Active Body in the Conscious Brain: physiological basis of motor and corporeal awareness" (code number: RBSI146V1D; funding € 462.000)
- As collaborator:**

- 2021- Multi-department call funded by the University of Turin to acquire small and medium-sized research equipment**  
Project entitled: "Interaction and communication with 3D computer graphic and multimedia", in collaboration with Vincenzo Lombardo (funding: € 243,530.04)
- 2021- CRT Foundation grant to Ivan Norscia**  
Project entitled: "Behavioral markers of empathy in pre-school children as a tool for the early identification of developmental disorders".
- 2021- Bial Foundation grant to Carlotta Fossataro**  
Project entitled: "How body ownership shapes tactile awareness: inducing phantom sensations and measuring their electrophysiological correlates in immersive virtual reality".
- 2020- Independent Research Council Denmark**  
Project entitled: "The functional role of perception of movements", in collaboration with Mark Schram Christensen, University of Copenhagen, Denmark (funding: DKK 6,191,343, € 832,630.50)
- 2020 Bando Talenti della Società Civile 2019 to Mattia Galigani**  
Project entitled "Electrophysiological biomarkers for the early diagnosis of autism/Biomarker elettrofisiologici per la diagnosi precoce di autismo.
- 2019 Erasmus Placement Grant to Nicolò Castellani**  
In collaboration with Mark Schram Christensen, University of Copenhagen, Denmark
- 2018-19 IBRO InEurope Short Stay Grant Program to Valentina Bruno**  
In collaboration with Mark Schram Christensen, University of Copenhagen, Denmark
- 2018-19 Erasmus Placement Grant to Marta Fantoni**  
In collaboration with Elia Valentini, University of Essex, UK
- 2016-17 European Space Agency (ESA), FLY Your Thesis!2017 to Valentina Bruno and Pietro Sarasso, in collaboration with Prof. Marco Neppi Modona**  
Project entitled "The role of gravitational input in shaping the sensation of bodily ownership" (funding: € 7.686)
- 2013-2014 Erasmus Placement Grant to Angela Mastropasqua**  
In collaboration with Gareon Fink, University of Cologne, Germany
- 2012-2015 San Paolo Foundation, Strategic Research Grant to Diego Marconi**  
Project entitled "The Role Of Visual Imagery In Lexical Processing (RVILP)"
- 2012-2013 Erasmus Placement Grant to Carlotta Fossataro**  
In collaboration with Giandomenico Iannetti, UCL, London, UK
- 2010-2012 MIUR-PRIN Grant (prot. 2010ENPRYE\_003) to Anna Berti**  
Project entitled "Neural basis of body awareness: evidence in normal subjects and in brain-damaged patients
- 2009-2012 Piedmont Region Grant to Pietro Terna**  
Project entitled "IIMBEMA"

#### *Infrastructure realization grants*

##### **As coordinator:**

- 2020-2021 coordinator for "Human Social Science and Humanities (HSSH) With & For Industry 4.0", project for the realization of new research infrastructure at the University of Turin**  
funded by Regione Piemonte (Infra-P grant) – 2,800,000 €

#### **AWARDS & HONORS**

- 2022 Premio SIFP (Italian Society of the Psychophysiology and Cognitive Neuroscience)**  
Early career award
- 2014 FENS EJM 2014 Best Video Award**  
Video entitled "E+ Patients: brain-damaged patient with pathological embodiment of alien body parts"  
<http://www.ejnnews.org/news/fens-ejm-2014-video-contest-winners-announced>
- 2013 Premio SIFP (Italian Society of the Psychophysiology)**  
Best Scientific Contribution

#### **DIDACTIC ACTIVITY**

**Teaching in Master's degree courses:**

- 2019- Neuropsicologia dell'azione / Neuropsychology of action (PSI0950)**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2019- Registrazione ed analisi di segnali psicofisiologici / Recording and analysis of psychophysiological signals (PSI0946)**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2016- Normalità e patologia della rappresentazione corporea / Body representation in normal and pathological condition (PSI0615)**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2016-2017 Interazione sociale / Social interaction**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2016- La ricerca su pazienti cerebrolesi in neuropsicologia sperimentale – Lab / The research with brain-damaged patients in experimental neuropsychology - Lab (PSI0601)**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2016-2020 Esercitazioni di analisi dei dati – Lab / Data Analysis Laboratory - Lab (PSI0399)**  
Master's degree in Psychology, University of Turin, Turin, Italy
- 2012-2016 Teaching experience in Academic Courses: Cognitive Neuroscience, Neuropsychology, Developmental Neuropsychology, Methods in Cognitive Neuroscience.**  
Department of Psychology, University of Turin, Turin, Italy

**Teaching in PhD courses:**

- 2017- Introduction to Neuropsychology**  
PhD course in Cognitive, Computational and Social Neurosciences, IMT School for Advanced Studies, Lucca, Italy

**Teaching in Postgraduate schools:**

- 2020- Neuropsicologia della coscienza/Neuropsychology of consciousness**  
Postgraduate school in "Psychophysiology and cognitive neuroscience", LUMSA University, Rome, Italy
- 2018- Neuropsicologia/Neuropsychology**  
Postgraduate school in "Psychophysiology and cognitive neuroscience", LUMSA University, Rome, Italy
- 2015- Neuropsicologia/Neuropsychology**  
Sagara Post graduate School in Psychotherapy, Lari, Pisa, Italy
- 2015- Metodologia della ricerca/Research methodology**  
Sagara Post graduate School in Psychotherapy, Lari, Pisa, Italy

**Tutoring activity:**

- 2017- Member of the "collegio docenti" of the PhD in Neuroscience**  
University of Turin, Turin, Italy
- 2016- Supervising of more than 60 master's degree experimental theses**  
Department of Psychology, University of Turin, Turin, Italy
- 2016- Tutoring of Post-Doc Research Fellows**  
Department of Psychology, University of Turin, Turin, Italy (Carlotta Fossataro; Guglielmo Puglisi; Irene Ronga)
- 2016- Tutoring Research Fellows**  
Department of Psychology, University of Turin, Turin, Italy (Bruno Loiacono, Antonino Errante, Carlotta Fossataro)
- 2015- Tutor of PhD students in Neuroscience**  
Doctoral School in Life and Health Sciences, University of Turin, Italy (Valentina Bruno, Mattia Galigani, Alice Rossi Sebastiano)
- 2015- Member of the "collegio docenti" of the master degree course "Scienze del corpo e della mente"**  
University of Turin, Turin, Italy
- 2006- Member of the exam commissions of the Psychobiology sector (MPSI/02)**  
**Co-tutoring of more than 50 experimental theses**  
Department of Psychology, University of Turin; Turin Politecnico, Italy

**Co-tutoring activity:**

- 2019-2020 Co-tutor of Nicolò Catellani, with Mark Schram Christensen**  
University of Copenhagen, Denmark
- 2018-2019 Co-tutor of Valentina Bruno, with Mark Schram Christensen**

- 2018-2019 University of Copenhagen, Denmark  
**Co-tutor of Marta Fantoni, with Elia Valentini**  
 University of Essex, UK
- 2015-2016 **Co-tutor of Angela Mastropaqua, with Gareon Fink**  
 University of Cologne, Germany
- 2012-2013 **Co-tutor of Carlotta Fossataro, with Giandomenico Iannetti**  
 UCL, London, UK

## INSTITUTIONAL ACTIVITY

- 2021 **Vice-coordinator of the PhD in Neuroscience**  
 University of Turin  
**Member of the research committee of the Department of Psychology**  
 University of Turin
- 2020 **Person in charge of the “privacy” at the Department of Psychology**  
 University of Turin  
**Member of the didactic committee of the PhD in Neuroscience**  
 University of Turin  
**Coordinator of the strategic University project for the realization of the research infrastructure HSSH**  
 University of Turin  
**Member of the scientific committee and of the management committee of the DISH project (Digital Scholarship for Humanities)**  
 University of Turin  
**Member of the working group “Spazio Alla Ricerca”**  
 University of Turin
- 2018 **Member of the exam commissions, PhD Course in Cognitive, Computational and Social Neurosciences**  
 IMT School for Advanced Studies Lucca
- 2017 **Member of the intermediate evaluation of research activity of the PhD in Neuroscience**  
 University of Turin
- 2016 **Member of the exam commissions, Scuola di Studi Superiori Ferdinando Rossi**  
 University of Torino
- 2009 **Member of the exam commissions at the master’s degree in “Mind and Body Science”, Psychology Department**  
 University of Torino  
**Member of the theses commissions, Psychology Department**  
 University of Torino

## EDITORIAL ACTIVITIES

### Editorial Board Membe

Scientific Reports; Journal of Neuropsychology

### Guest associate editor

Frontiers in Human Neuroscience (Sensory Neuroscience, Human Neuroscience Archive)

### Review editor

Frontiers in Psychology (Consciousness Research), Frontiers in Human Neuroscience (Sensory Neuroscience, Human Neuroscience Archive)

### Ad hoc Referee for peer-reviewed journals

Neuropsychologia; Cortex; Journal of Neurology, Neurosurgery & Psychiatry; PlosOne; Neuro Case; Frontiers in Human Neuroscience; Experimental Brain Research; Consciousness and Cognition; Cognitive, Affective and Behavioral Neuroscience; Scientific Reports; Current Biology; Perception; Brain Stimulation; Cognition; Archives Italiennes de Biologie; Biological Psychiatry; European Journal of Neuroscience; Brain Topography; Nature Communication; Cerebral Cortex; Proceedings of the National Academy of Science.

### Commissions of trust for grant proposals

European Union: ERC Starting Grant, ERC Synergy Grant; Swiss National Science Foundation (SNSF); Wellcome Trust: Senior Research Fellowship; French National Research Agency (ANR)



**International links** Prof. Giandomenico Iannetti (Department of Neuroscience, University College of London, UK), Dr. Aikaterini Fotopoulou, (Department of Psychology, Kings College of London, UK), Dr. Fred Tam (Physical Sciences, Sunnybrook Research Institute, Toronto, Canada), Prof. Simon J. Graham (Department of Medical Biophysics, University of Toronto, Canada), Prof. Jon Driver, passed away, (Wellcome Centre for Neuroimaging at University College of London, UK), Prof. Mark Schram Christensen (Cognitive Motor Neuroscience section of Copenhagen Neural Control of Movement Laboratory, University of Copenhagen), Dr. Elia Valentini (University of Essex, UK), Prof. Bettina Foster (City, University of London, UK), Prof. Andrea Serino (EPFL, Lausanne, Switzerland), Prof. Michela Bassolino (EPFL, Lausanne, Switzerland), Prof. Alessandro Farnè (CRNL, Lyon, France).

## RELEVANT SKILLS

**Computer Science:** Operating systems: Dos, Windows e Macintosh; Application software: Office, Photoshop, Endnote; Experimental software: E-Prime, Presentation, MatLab; Morphological and functional neuroimaging software: BrainVoyager QX, SPM, MRICron; Statistical software: Statistica, SPSS.

**Others:** Neuropsychological experimental design and data analysis; Neuroimaging (fMRI) experimental design and data analysis; Psychophysiological techniques (SCR, EMG, EEG); Morphological and functional neuroimaging techniques (MRI, fMRI, TMS, rTMS, tDCS); Clinical neuropsychological diagnosis; Social skills in team working.

## LANGUAGES

Italian (mother tongue)  
English (understanding: C2 – speaking: C1 – writing: C1)  
French (understanding: B2 – speaking: B1– writing: A1)

## ORGANIZATION OF SCIENTIFIC EVENTS

### Scientific meetings organization

- 2022** Member of the Local Organizing Committee of the 4<sup>th</sup> Edition of the Body Representation Network (BRNET) “The pathological body: the perception and the experience of the body in diseases”, Sion, Switzerland, September 9.
- 2018** President of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), edition 2018 in Turin, Italy, November 15-17.
- 2018** Member of the Local Organizing Committee of the 19th World Congress of Psychophysiology, Lucca, Italy, September 4-8.
- 2018** Member of the Scientific Committee of MeToo conference, Turin, Italy, May 25-27.

### Symposia organization

- 2019** **Garbarini F** and Dijkerman C “The body in the brain”, 7th scientific meeting of the Federation of the European Societies of Neuropsychology (FESN), Milan, Italy September 5.
- 2018** **Garbarini F** and Romano D “Representing the body in the plastic brain: insights from neurophysiological, developmental and clinical approaches”, XXVI Annual meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience, Turin, Italy, November 16.
- 2018** **Garbarini F** “The Body in the brain” (Symposium), MeToo conference, Turin, Italy, May 25-27.
- 2017** **Garbarini F** and Ronchi R, “My body is in pain! Exploring the interaction between pain processing and body representation”, 6th Scientific Conference of the Federation of the European Societies of Neuropsychology (FESN) in Maastricht, the Netherlands, September 13.
- 2016** **Garbarini F** and Bolognini N. “The body in action”, V Annual meeting of the Italian Society on Neuropsychology, Milan, Italy, December 3.
- 2015** **Garbarini F** and Bolognini N. “The boundaries between self and others tactile sensations”, XXIII Annual meeting of the Italian Society of Psychophysiology, Lucca, Italy, November 20.

## SCIENCE COMMUNICATION & MEDIA

- 2021** **Sharper - Notte Europea dei Ricercatori 2021**

- Orto Botanico, Torino, 24th and 25th September  
**TG Leonardo, Radiotelevisione Italiana, RAI 3**  
[https://drive.google.com/file/d/168Tlz8TLT\\_m9X4j61EdpdB5B-v4is-M8/view](https://drive.google.com/file/d/168Tlz8TLT_m9X4j61EdpdB5B-v4is-M8/view)  
**La Repubblica**  
[https://torino.repubblica.it/cronaca/2021/03/09/news/i\\_neonati\\_riconoscono\\_il\\_loro\\_corpo\\_a\\_poche\\_or\\_e\\_dalla\\_nascita-291266275/](https://torino.repubblica.it/cronaca/2021/03/09/news/i_neonati_riconoscono_il_loro_corpo_a_poche_or_e_dalla_nascita-291266275/)  
**La Stampa**  
<https://www.lastampa.it/torino/2021/03/09/news/i-neonati-sono-in-grado-di-codificare-lo-spazio-esterno-la-scoperta-in-un-nuovo-studio-torinese-1.40003847/>  
**Le Scienze**  
[https://www.lescienze.it/news/2021/03/09/news/cervello\\_neonati\\_confini\\_corpo-4902516/](https://www.lescienze.it/news/2021/03/09/news/cervello_neonati_confini_corpo-4902516/)  
**Corriere della Sera**  
[https://torino.corriere.it/salute/21\\_marzo\\_09/i-neonati-riconoscono-loro-corpo-poche-ore-nascita-4e7e79e6-80c4-11eb-b4d9-f9ad19747109.shtml](https://torino.corriere.it/salute/21_marzo_09/i-neonati-riconoscono-loro-corpo-poche-ore-nascita-4e7e79e6-80c4-11eb-b4d9-f9ad19747109.shtml)
- 2020** **Frida, Professori fantastici e dove trovarli / Fantastic teachers and where to find them**  
[http://frida.unito.it/wn\\_pages/contenuti.php/681\\_neuroscienze-e-malattie-neurologiche/419\\_dove-sono-le-mie-mani-prof-fantastici-32/](http://frida.unito.it/wn_pages/contenuti.php/681_neuroscienze-e-malattie-neurologiche/419_dove-sono-le-mie-mani-prof-fantastici-32/)  
**Frida**  
[http://frida.unito.it/wn\\_pages/contenuti.php/412\\_la-mente-umana-e-la-sua-complessit-educazione-e-linguaggio/354\\_eppur-si-muove-spegnere-un039area-del-cervello-per-capire-i-danni-da-ictus/](http://frida.unito.it/wn_pages/contenuti.php/412_la-mente-umana-e-la-sua-complessit-educazione-e-linguaggio/354_eppur-si-muove-spegnere-un039area-del-cervello-per-capire-i-danni-da-ictus/)
- 2019** **Book presentation edited by Il Mulino “L’uomo con tre mani. Storie di corpi e identità”**  
 Circolo dei Lettori Foundation, 5th December, Turin, Italy  
**Book presentation edited by Il Mulino “L’uomo con tre mani. Storie di corpi e identità”**  
 Deep Festival, 22<sup>nd</sup> July, Livorno, Italy  
**La Notte Europea dei Ricercatori 2019 – 13th Edition**  
 27th September 2019, Turin, Italy
- 2018** **Settimana del Cervello / Brain awareness week: “Neuropsicologia a gravità zero” / “Neuropsychology at 0 gravity”.**  
 Palazzo Badini, Psychology Department, Turin, Italy
- 2017** **TG Leonardo, Radiotelevisione Italiana, RAI 3**  
<https://t.co/6ZvC6yv4aH>  
**La Notte Europea dei Ricercatori 2018 – 12th Edition**  
 29th September 2017, Turin, Italy
- 2016** **BBC**  
<http://www.bbc.com/news/science-environment-37705375>  
**The Guardian**  
<https://www.theguardian.com/science/2016/oct/20/rubber-hand-illusion-reveals-how-the-brain-understands-the-body>  
**Stat news**  
<https://www.statnews.com/2016/10/20/brain-rubber-hand-illusion/>  
**Frida**  
[http://frida.unito.it/wn\\_pages/contenuti.php/412\\_la-mente-umana-e-la-sua-complessit-educazione-e-linguaggio/58/](http://frida.unito.it/wn_pages/contenuti.php/412_la-mente-umana-e-la-sua-complessit-educazione-e-linguaggio/58/)  
**La Repubblica**  
[http://www.repubblica.it/salute/ricerca/2016/10/24/news/ecco\\_come\\_la\\_mano\\_finta\\_e\\_riuscita\\_ad\\_ingannare\\_il\\_cervello-150361208/](http://www.repubblica.it/salute/ricerca/2016/10/24/news/ecco_come_la_mano_finta_e_riuscita_ad_ingannare_il_cervello-150361208/)  
**La Notte Europea dei Ricercatori 2016**  
 Piazza Castello, 30th September 2016, Turin, Italy  
**Pint of Science: “Ingannare la percezione spaziale e corporea” / Misleading the spatial and body perception.**  
 Birrificio Torino, 25th May 2016, Turin, Italy.  
**Settimana del Cervello / Brain awareness week: “Ludwig Wittgenstein e l’attizzatoio: azioni e intenzioni”**  
 Circolo dei Lettori, 15th March 2016, Turin, Italy, [http://www.centroscienza.it/settimana\\_cervello16/](http://www.centroscienza.it/settimana_cervello16/)
- 2015** **La Notte dei Ricercatori 2015**  
 Piazza Castello, 25th September 2015, Turin, Italy
- 2015** **La Notte dei Ricercatori 2015**  
 Piazza Castello, 25th September 2015, Turin, Italy



## TALKS

- Invited talks**
- Garbarini F.** (2022). Primitive coding of the bodily-self boundaries in prenatal and postnatal life. Invited by prof. Maria Laura Filippetti. International Congress of Infant Studies, Ottawa, Canada, July.
- Garbarini F.** (2021). Somatosensory biomarkers of the bodily self. Invited by prof. Vittorio Gallese and dr. Francesca Ferroni and dr. Martina Ardizzi. The Sense of Touch, online meeting, September the 30<sup>th</sup>.
- Garbarini F.** (2020). New evidence on Asomatoagnosia and body ownership. Invited by prof. Valentina Moro and prof. Paul Jenkinson. IX Annual Congress of The Italian Society of Neuropsychology, online meeting, November the 20<sup>th</sup>.
- Garbarini F.** (2019). The self-other body boundaries in normal and pathological brain. Invited by prof. Andrea Serino. Lausanne university, June the 27<sup>th</sup>.
- Garbarini F.** (2019). The sense of body ownership in normal and pathological brain. Invited by prof. Alessandro Farné. Neuroscience Research Centre of Lyon, June 13<sup>th</sup>.
- Garbarini F.** (2018). You or me? The self-other body boundaries in normal and pathological brain. Invited by prof. Giovanni Di Pino. Università Campus Biomedico, Roma, Italy, November the 21<sup>st</sup>.
- Garbarini F.** (2017). Pathological embodiment after brain damages: behavioral and physiological evidence. Invited by P. Vuilleumier, Département des Neurosciences fondamentales, Genève, Switzerland, May the 22<sup>nd</sup>.
- Garbarini F.** (2016). Alterazioni patologiche della consapevolezza motoria e corporea: evidenze sperimentali in pazienti cerebrolesi. Invited by prof. Francesca Frassinetti, Università di Bologna (Italy), May the 21<sup>th</sup>.
- Garbarini F.** (2015). Self-awareness impairment: motor and somatosensory evidence from brain-damaged patients. Invited by prof. Joachim Hermsdörfer, Colloquium on Sensorimotor Control, Munich, Germany, December the 17<sup>th</sup>.
- Garbarini F.** (2015) From pathological embodiment to a model for bodily awareness. Invited by Frederique de Vignemont and Adrian Alsmith, The Body and the Self revised Symposium, Copenhagen, Denmark, December the 10<sup>th</sup>-11<sup>th</sup>.
- Garbarini F.** (2014) Alterazioni della consapevolezza motoria e corporea in pazienti cerebrolesi: evidenze comportamentali e fisiologiche. Invited by prof. Paola Borroni, University of Milano-Statale, Milano, Italy, November the 4<sup>th</sup>.
- Garbarini F.** (2014) Anosognosia in neglect and in hemiplegia. Invited by prof. Georg Kerkhoff, 3<sup>rd</sup> Symposium on Behavioral Neurology Lucerne: Neglect and Neglect Rehabilitation, Luzerner Kantonsspital, Lucerne, Switzerland, March the 29<sup>th</sup>.
- Garbarini F.** (2014) Body awareness alterations in brain-damaged patients. Invited by prof. Angelo Maravita, University of Milano-Bicocca, Milano, Italy, February the 28<sup>th</sup>.
- Garbarini F.** (2013) Motor and Bodily awareness disorders: evidence from anosognosia for hemiplegia and from pathological embodiment. Invited by prof. Giacomo Rizzolatti, Vita-Salute San Raffaele University, Milano, Italy, May the 21<sup>st</sup>.
- Talks at scientific meetings**
- Garbarini F.** (2020). Somatosensory biomarkers of the bodily self, in “The different senses of the body: approaches of psychophysiology and cognitive neurosciences”. XXVI Annual Meeting of the Italian Association of Psychology, online meeting, September the 4<sup>th</sup>.
- Garbarini F.** (2019). Disentangling motor imagery and motor execution in normal and pathological conditions, in “Motor imagery”, Experimental Psychology Society (<https://eps.ac.uk/>), Manchester, UK, April the 11<sup>th</sup>.
- Garbarini F.** (2019). The self-other body boundaries in normal and pathological brain, in “The body in the brain”, 7<sup>th</sup> scientific meeting of the Federation of the European Societies of Neuropsychology (FESN), Milan, Italy, September the 5<sup>th</sup>.
- Garbarini F.** (2017). Feeling pain on the other’s body after brain damages, in “My body is in pain! Exploring the interaction between pain processing and body representation”, 6<sup>th</sup> Scientific Conference of the Federation of the European Societies of Neuropsychology (FESN), Maastricht, the Netherlands, September the 13<sup>th</sup>.
- Garbarini F.** (2015) Feeling sensations on the other’s body after brain damages, in “The boundaries between self and others tactile sensations”, XXIII Annual Meeting of the Italian Society on Psychophysiology, Lucca, Italy, November the 20<sup>th</sup>.
- Garbarini F.** (2015) Bimanual coupling: an effective tool to investigate the sense of ownership and agency in pathological conditions, in “My body + my movement is = me? Body ownership, agency and the bodily self”, 5<sup>th</sup> Conference of the Federation of the European Societies of Neuropsychology

(FESN), Tampere, Finland, September the 9<sup>th</sup>.

**Garbarini F** (2014). Immaginare ed eseguire movimenti complessi: accoppiamento bimanuale in soggetti normali e in pazienti cerebrolesi, in "Immaginare il movimento del proprio corpo", Italian Society of Neuropsychology (SINP) annual meeting, Napoli, Italy, October the 23<sup>rd</sup>.

**Garbarini F** (2014). Phantom learning: intermanual transfer of sequence learning in an amputee with phantom limb. At the Italian Society of Psychophysiology (SIPF) annual meeting, Firenze (Italy), November the 27<sup>th</sup>.

**Garbarini F** (2014). Overestimation of forearm length in brain-damaged patients following pathological embodiment of an alien arm performing finalized actions with a tool. At the 32<sup>th</sup> European Workshop on Cognitive Neuropsychology. Brixen (Italy), January the 30<sup>th</sup>.

**Garbarini F** (2013). Dynamic causal modeling of cortical activity during execution or imagination of movements with a paralyzed limb. At the Italian Society of Psychophysiology (SIPF) annual meeting, Lecce (Italy), October the 25<sup>th</sup>.

**Garbarini F** (2013). Overestimation of forearm length in a brain-damaged patient following pathological embodiment of an alien arm performing finalized actions with a tool. At the Italian Society of Neuropsychology (SINP), Milano, November the 15<sup>th</sup>.

**Garbarini F** (2012). Your hand is my hand! Bimanual coupling effect in a somatoparaphrenic patient. At the 30<sup>th</sup> European Workshop on Cognitive Neuropsychology. Brixen, January the 26<sup>th</sup>.

**Garbarini F** (2012). Bimanual coupling effect in somatoparaphrenic patients. At the spring meeting of the Italian Society of Neuropsychology (SINP), Bologna, May the 5<sup>th</sup>.

**Garbarini F** (2012). Body awareness impairment: experimental findings on pathological embodiment of other people's body parts, in "The bodily self: neuropsychological patterns of defective awareness and sensation", Italian Society of Neuropsychology (SINP) autumn meeting, Santa Lucia Hospital, Roma, Italy, November the 10<sup>th</sup>.

**Garbarini F** (2011). Anatomic-functional dissociation between bimanual symmetric and bimanual asymmetric movements: evidence from motor neglect. At the 9<sup>th</sup> European Workshop on Cognitive Neuropsychology. Brixen, January the 24<sup>th</sup>.

## OTHER WORKING EXPERIENCES

<b>2004-2005</b>	<b>Scientific editor</b> L'Indice dei libri del mese, Via Madama Cristina, 16, Turin (IT)
<b>2006-2010</b>	<b>Scientific editor</b> Bollati Boringhieri Editore, Corso Vittorio Emanuele II, 86, Turin (IT)

## PUBLICATIONS

## Indices of impact and Productivity

Published papers in international peer-reviews journals: 82

Books: 1

Book chapters: 4

H-index = 26 (Google Scholar); 23 (Scopus)

i10-index = 46

Citations: 1999 (Google Scholar); 1379 (Scopus)

Fields: neuroscience and psychology.

Authorship position: in 51/82 (65%) of my papers I am either first, co-first, last or co-last author.

## Peer-reviewed journal papers

1. Bruno V, Castellani N, **Garbarini F\***, Christensen MS\*. (2022). Moving without sensory feedback: online TMS over the dorsal premotor cortex impairs motor performance during ischemic nerve block. *Cerebral Cortex*. doi: 10.1093/cercor/bhac210. \*co-last authorship
2. Rossi Sebastiano A, Poles K, Miller L, Fossataro C, Milano E, Gindri P, **Garbarini F.** (2022). Reach planning with someone else's hand. *Cortex*. doi: 10.1016/j.cortex.2022.05.005
3. Biggio M, Bisio A, Bruno V, **Garbarini F**, Bove M. (2022). Wearing a Mask Shapes Interpersonal Space during COVID-19 Pandemic. *Brain Sciences*, 12(5), 682. doi: 10.3390/brainsci12050682
4. Bruno V, Sarasso P, Fossataro C, Ronga I, Neppi-Modona M, **Garbarini F.** (2022). The Rubber Hand Illusion in microgravity and water immersion. *npj Microgravity*, 8, 15. doi: 10.1038/s41526-022-00198-4
5. Errante A, Rossi Sebastiano A, Ziccarelli S, Bruno V, Rozzi S, Pia L, Fogassi L, **Garbarini F.** (2022). Structural connectivity associated with the sense of body ownership: a diffusion tensor imaging and disconnection study in patients with bodily awareness disorder. *Brain Communications*, 4(1). doi: 10.1093/braincomms/fcac032
6. Sebastiano, A. R., Poles, K., Biggio, M., Bove, M., Neppi-Modona, M., **Garbarini, F.**, & Fossataro, C. (2022). Expertise and injury experience in professional skiers modulate the ability to predict the outcome of observed ski-related actions. *Psychology of Sport and Exercise*, 58, 102092. <https://doi.org/10.1016/j.psychsport.2021.102092>
7. Scarpina, F., Fossataro, C., Sebastiano, A. R., Bruni, F., Scacchi, M., Mauro, A., & **Garbarini, F.** (2021). Behavioural evidence of altered sensory attenuation in obesity. *Quarterly Journal of Experimental Psychology*, 17470218211065766. <https://doi.org/10.1177/17470218211065766>.
8. Del Vecchio M, Fossataro C, Zauli FM, Sartori I, Pigorini A, d'Orio P, ... **Garbarini F.** & Avanzini P. (2021). Tonic somatosensory responses and deficits of tactile awareness converge in the parietal operculum. *Brain*, 144(12), 3779-3787. <https://doi.org/10.1093/brain/awab384>
9. Rossi Sebastiano A, Bruno V, Ronga I, Fossataro C, Galigani M, Neppi-Modona M, & **Garbarini F.** (2021). Diametrical modulation of tactile and visual perceptual thresholds during the rubber hand illusion: a predictive coding account. *Psychological Research*. doi: 10.1007/s00426-021-01608-0
10. Ronga I, Galigani M, Bruno V, Castellani N, Rossi Sebastiano A, Valentini E, Fossataro C, Neppi-Modona M, **Garbarini F.** (2021). Seeming confines: electrophysiological evidence of peripersonal space remapping following tool-use in humans. *Cortex*. doi: 10.1016/j.cortex.2021.08.004
11. Galigani M, Fossataro C, Gindri P, Conson M, & **Garbarini F.** (2021). Monochannel Preference in Autism Spectrum Conditions Revealed by a Non-Visual Variant of Rubber Hand Illusion. *Journal of Autism and Developmental Disorders*, 1-9. doi: 10.1007/s10803-021-05299-9
12. Biggio M, Bisio A, **Garbarini F**, & Bove M. (2021). Bimanual coupling effect during a proprioceptive stimulation. *Scientific Reports*, 11(1), 1-9. <https://doi.org/10.1038/s41598-021-94569-8>
13. Pyasik M, Fortunato E, Dal Monte O, Schintu S, **Garbarini F**, Ciorli T, & Pia L. (2021). Self-other distinction modulates the social softness illusion. *Psychological Research*, 1-9. <https://doi.org/10.1007/s00426-021-01549-8>

14. Pyasik M, Ronga I, Burin D, Salatino A, Sarasso P, **Garbarini F**, ... & Pia L. (2021). I'm a believer: Illusory self-generated touch elicits sensory attenuation and somatosensory evoked potentials similar to the real self-touch. *NeuroImage*, 229, 117727. <https://doi.org/10.1016/j.neuroimage.2021.117727>
15. Invitto S, Romano D, **Garbarini F**, Bruno V, Urgesi C, Curcio G, Grasso A, Pellicciari AC, Koch G, Betti V, Fiorio M, Ricciardi E, De Tommaso M, Valeriani M. (2021). Major stress-related symptoms during the lockdown: a study by the Italian Society of Psychophysiology and Cognitive Neuroscience. *Frontiers in Public Health*, section Public Health Policy. <https://doi.org/10.3389/fpubh.2021.636089>
16. Ronga I, Galigani M, Bruno V, Noel JP, Gazzin A, Perathoner C, Serino A, **Garbarini F**. (2021). Spatial tuning of electrophysiological responses to multisensory stimuli reveals a primitive coding of the body boundaries in newborns. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.2024548118>
17. Galigani M, Ronga I, Bruno V, Castellani N, Rossi Sebastiano A, Fossataro C, **Garbarini F**. (2021). Face-like configurations modulate electrophysiological mismatch responses. *European Journal of Neuroscience*, 53(6), 1869-1884. <https://doi.org/10.1111/ejn.15088>
18. Scarpina F, Bruno V, Rabuffetti M, Priano L, Tagini S, Gindri P, ... & **Garbarini F**. (2021). Drawing lines and circles in Parkinson's Disease: The lateralized symptoms interfere with the movements of the unaffected hand. *Neuropsychologia*, 151, 107718. <https://doi.org/10.1016/j.neuropsychologia.2020.107718>
19. Galigani M, Ronga I, Fossataro C, Bruno V, Castellani N, Rossi Sebastiano A, Forster B, **Garbarini F**. (2020). Like the back of my hand: Visual ERPs reveal a specific change detection mechanism for the bodily self. *Cortex*. <https://doi.org/10.1016/j.cortex.2020.10.014>
20. **Garbarini F**, Fossataro C, Pia L, & Berti A. (2020). What pathological embodiment/disembodiment tell us about body representations. *Neuropsychologia*, 149, 107666. <https://doi.org/10.1016/j.neuropsychologia.2020.107666>
21. Galigani M, Castellani N, Donno B, Franza M, Zuberd C, Allet L, **Garbarini F**, Bassolino M. (2020). Effect of tool-use observation on metric body representation and peripersonal space. *Neuropsychologia*, doi.org/10.1016/j.neuropsychologia.2020.107622
22. Fossataro C, Rossi Sebastiano A, Tieri G, Poles K, Galigani M, Pyasik M, ... & **Garbarini F**. (2020). Immersive virtual reality reveals that visuo-proprioceptive discrepancy enlarges the hand-centred peripersonal space. *Neuropsychologia*, doi.org/10.1016/j.neuropsychologia.2020.107540
23. Fonia L, Puglisi G, Leonetti A, Bello L, Berti A, Cerri G, **Garbarini F**. (2020). Direct electrical stimulation of the premotor cortex shuts down awareness of voluntary actions. *Nature communications*, 11(1), 1-11. <https://doi.org/10.1038/s41467-020-14517-4>
24. Bruno V, Ronga I, Fossataro C, Galigani M, Sacco K, **Garbarini F**. (2020). Long-term limb immobilization modulates inhibition-related electrophysiological brain activity. *NeuroImage*, 116911. <https://doi.org/10.1016/j.neuroimage.2020.116911>
25. Pia L, Fossataro C, Burin D, Bruno V, Spinazzola L, Gindri P, ... & **Garbarini F**. (2020). The anatomoclinical picture of the pathological embodiment over someone else's body part after stroke. *Cortex*. <https://doi.org/10.1016/j.cortex.2020.05.002>
26. Fossataro C, Burin D, Ronga I, Galigani M, Rossi Sebastiano A, Pia L, **Garbarini F**. (2020). Agent-dependent modulation of corticospinal excitability during painful transcutaneous electrical stimulation. *NeuroImage*, 116897. <https://doi.org/10.1016/j.neuroimage.2020.116897>
27. Fossataro C, Bruno V, Bosso E, Chiotti V, Gindri P, Farnè A, **Garbarini F**. (2020). The sense of body-ownership gates cross-modal improvement of tactile extinction in brain-damaged patients. *Cortex*, 127, 94-107. <https://doi.org/10.1016/j.cortex.2020.02.004>
28. Colle L, Hilviu D, Rossi R, **Garbarini F**, Fossataro C. (2020). Self-Harming and Sense of Agency in Patients With Borderline Personality Disorder. *Frontiers in Psychiatry*, 11, 449. <https://doi.org/10.3389/fpsy.2020.00449>
29. **Garbarini F**, Calzavarini F, Diano M, Biggio M, Barbero C, Radicioni D P, ... & Marconi D. (2020). Imageability effect on the functional brain activity during a naming to definition task. *Neuropsychologia*, 137, 107275. <https://doi.org/10.1016/j.neuropsychologia.2019.107275>

30. Fossataro C, Tieri G, Grollero D, Bruno V, **Garbarini F.** (2020). Hand blink reflex in virtual reality: The role of vision and proprioception in modulating defensive responses. *European Journal of Neuroscience*, 51(3), 937-951. DOI: 10.1111/ejn.14601
31. Dell'Anna A, Rosso M, Bruno V, **Garbarini F**, Leman M, Berti A. (2020). Does musical interaction in a jazz duet modulate peripersonal space? *Psychological Research*. <https://doi.org/10.1007/s00426-020-01365-6>
32. Scarpina F, Tagini S, Rabuffetti M, Albani G, **Garbarini F**, Mauro A. (2020). Is bimanual interference affected in the case of a central proprioceptive loss? New insight from a left-brain-damaged single-case study. *Neuropsychology*. <https://doi.org/10.1037/neu0000624>
33. Sarasso P, et al. "Aesthetic appreciation of musical intervals enhances behavioural and neurophysiological indexes of attentional engagement and motor inhibition." *Scientific Reports* 9.1 (2019): 1-14. <https://doi.org/10.1038/s41598-019-55131-9>
34. Bruno V, Carpinella I, Rabuffetti M, De Giuli L, Sinigaglia C, **Garbarini F**, Ferrarin M. (2019). How tool-use shapes body metric representation: evidence from motor training with and without robotic assistance. *Frontiers in human neuroscience*, 13, 299. <https://doi.org/10.3389/fnhum.2019.00299>
35. Pia L, **Garbarini F**, Kalckert A, Wong HY. (2019). Editorial: Owning a Body + Moving a Body = Me?
36. *Front Hum Neurosci*. 13:88. doi: 10.3389/fnhum.2019.00088.
37. Bruno V, Ronga I, Fossataro C, Capozzi F, **Garbarini F.** (2019). Suppressing movements with phantom limbs and existing limbs evokes comparable electrophysiological inhibitory responses. *Cortex* 5;117:64-76. doi: 10.1016/j.cortex.2019.02.024.
38. Ronga I, **Garbarini F**, Neppi-Modona M, Fossataro C, Pyasik M, Bruno V, Sarasso P, Barra G, Frigerio M, Chiotti VC, Pia L. (2019). See Me, Feel Me': Prismatic Adaptation of an Alien Limb Ameliorates Spatial Neglect in a Patient Affected by Pathological Embodiment. *Front Psychol*. 14;9:2726. doi: 10.3389/fpsyg.2018.02726.
39. Pyasik M, Capozzi F, Sigaud M, Cardillo S, Pia L, Rocca P, **Garbarini F.** (2019). I do not know whether you did that: Abnormal implicit attribution of social causality in patients with schizophrenia. *Schizophr Res*. pii: S0920-9964(18)30726-6. doi: 10.1016/j.schres.2018.12.030.
40. Fossataro C, Bruno V, Gindri P, **Garbarini F.** (2018). Defending the Body Without Sensing the Body Position: Physiological Evidence in a Brain-Damaged Patient with a Proprioceptive Deficit. *Front. Psychol*. <https://doi.org/10.3389/fpsyg.2018.02458>.
41. Piedimonte A, Conson M, Froli A, Bari S, Della Gatta F, Rabuffetti M, Keller R, Berti A, **Garbarini F.** (2018). Dissociation between executed and imagined bimanual movements in autism spectrum conditions. *Autism Res*. 11(2):376-384. doi: 10.1002/aur.1902.
42. Dell'Anna A, Fossataro C, Burin D, Bruno V, Salatino A, **Garbarini F**, Pia L, Ricci R, Leman M, Berti A. (2018). Entrainment beyond embodiment. *Neuropsychologia*. doi: 10.1016/j.neuropsychologia.2018.08.017.
43. Fossataro C, Bruno V, Giurgola S, Bolognini N, **Garbarini F.** (2018). Losing my hand. Body ownership attenuation after virtual lesion of the primary motor cortex. *Eur J Neurosci*. doi: 10.1111/ejn.14116.
44. Ronga I, Sarasso P, Fossataro C, Salatino A, **Garbarini F**, Ricci R, Neppi-Modona M. (2018). Everything is Illuminated: Prismatic Adaptation Lowers Visual Detection Threshold in Normal Subjects. *J Exp Psychol Hum Percept Perform*. 2018 Jul 30. doi: 10.1037/xhp0000559.
45. **Garbarini F**, Cecchetti L, Bruno V, Mastropasqua A, Fossataro C, Massazza G, Sacco K, Valentini MC, Ricciardi E, Berti A. (2018). To move or not to move? Functional role of ventral premotor cortex in motor monitoring during limb immobilization. *Cerebral cortex*, doi: 10.1093/cercor/bhy134.
46. **Garbarini F**, Bisio A, Biggio M, Pia L, Bove M. Motor sequence learning and intermanual transfer with a phantom limb. (2018) *Cortex* 101:181-191.
47. Bruno V, Fossataro C, **Garbarini F.** (2018). Inhibition or facilitation? Modulation of corticospinal excitability during motor imagery. *Neuropsychologia*, <https://doi.org/10.1016/j.neuropsychologia.2018.02.020>

48. Fossataro C, Bucchioni G, D'Agata F, Bruno V, Morese R, Krystkowiak P, **Garbarini F.** (2018). Anxiety-dependent modulation of motor responses to pain expectancy. *Social Cognitive and Affective Neuroscience*, <https://doi.org/10.1093/scan/nsx146>.
49. Bruno V, Fossataro C, **Garbarini F.** (2017). Report of seizure induced by 10 Hz rTMS over M1. *Brain Stimulation*, <https://doi.org/10.1016/j.brs.2017.11.003>
50. Burin D, **Garbarini F.**, Bruno V, Fossataro C, Destefanis C, Beri A, Pia L. (2017). Movements and body ownership: Evidence from the rubber hand illusion after mechanical limb immobilization. *Neuropsychologia*, <https://doi.org/10.1016/j.neuropsychologia.2017.11.004>
51. Bruno V, Fossataro C, Bolognini N, Zigiotta L, Vallar G, Berti A, **Garbarini F.** (2017). The role of premotor and parietal cortex during monitoring of involuntary movement: A combined TMS and tDCS study. *Cortex*, <https://doi.org/10.1016/j.cortex.2017.09.001>
52. Fossataro C, Bruno V, Gindri P, Pia L, Berti A, **Garbarini F.** (2017). Feeling touch on the own hand restores the capacity to visually discriminate it from someone else' hand: Pathological embodiment receding in brain-damage patients, *Cortex*, <https://doi.org/10.1016/j.cortex.2017.06.004>
53. **Garbarini F.**, Mastropasqua A, Sigauco M, Rabuffetti M, Piedimonte A, Pia L, Rocca P (2016). Abnormal sense of agency in patients with schizophrenia: evidence from bimanual coupling paradigm. *Front Behav Neurosci* (in press).
54. Fossataro C, Sambo CF, **Garbarini F.**, Iannetti GD (2016). Interpersonal interactions and empathy modulate perception of threat and defensive responses. *Scient Rep.*6:19353.
55. Capozzi F, Becchio C, **Garbarini F.**, Savazzi S, Pia L (2016). Temporal perception in joint action: This is MY action. *Conscious Cogn.* 40:26-33.
56. **Garbarini F.**, Turella L, Rabuffetti M, Cantagallo A, Piedimonte A, Fainardi E, Berti A, Fadiga L (2015). Bimanual non-congruent actions in motor neglect syndrome: a combined behavioral/fMRI study *Front Hum Neurosci.* 9:541.
57. Pia L, **Garbarini F.**, Burin D, Fossataro C, Berti A (2015). A predictive nature for tactile awareness? Insights from damaged and intact central-nervous-system functioning. *Front Hum Neurosci* 19:9-287.
58. **Garbarini F.**, Rabuffetti M, Piedimonte A, Solito G, Berti A. (2015). Bimanual coupling effects during arm immobilization and passive movements. *Hum Mov Sci.* 41:114-126.
59. **Garbarini F.**, Fossataro C, Berti A, Gindri P, Romano D, Pia L, Della Gatta F, Maravita A, Neppi-Mòdona M (2015). When Your Arm Becomes Mine: Pathological Embodiment Of Alien Limbs Using Tools Modulates Own Body Representation. *Neuropsychologia* 70:402-413.
60. Burin D, Livelli A, **Garbarini F.**, Fossataro C, Folegatti A, Gindri P, Pia L. (2015). Are movements necessary for the sense of body ownership? Evidence from the rubber hand illusion in pure hemiplegic patients. *PLoS One* 10(3): e0117155.
61. Piedimonte A, **Garbarini F.**, Rabuffetti M, Pia L, Montesano A, Ferrarin M, Berti A. (2015). Invisible Grasps: Grip Interference in Anosognosia for Hemiplegia. *Neuropsychology* 29(5):776-81.
62. Piedimonte A, **Garbarini F.**, Rabuffetti M, Pia L, Berti A (2014). Executed and imagined bimanual movements: a study across different ages. *Developmental Psychology* 50(4):1073-80.
63. **Garbarini F.**, Fonia L, Fossataro C, Pia L, Gindri P, Berti A (2014) Embodiment of others' hands elicits arousal responses similar to one's own hands. *Current Biology* 24(16): R738-9.
64. **Garbarini F.**, Boero R, D'Agata F, Bravo G, Mosso C, Cauda F, Duca S, Geminiani G, Sacco K (2014). Neural correlates of gender differences in reputation building. *PLoS One* 9(9): e106285.
65. Pia L, Cavallo M, **Garbarini F.** (2014). Anosognosia for hemianesthesia: From the syndrome to tactile awareness. *Translational Neuroscience.* 10.2478/s13380-014-0227-5. DOI: <https://doi.org/10.2478/s13380-014-0227-5>.
66. Pia L, Spinazzola L, **Garbarini F.**, Bellan G, Piedimonte A, Fossataro C, Livelli A, Burin D, Berti A (2014). Anosognosia for hemianaesthesia: a voxel-based lesion-symptom mapping study. *Cortex* 61:158-66.

67. **Garbarini F**, D'Agata F, Piedimonte A, Sacco K, Rabuffetti M, Cauda F, Pia L, Geminiani G, Duca S, Tam F, Graham SJ, Berti A (2013). Drawing lines while imagining circles: neural basis of the bimanual coupling effect during motor execution and motor imagery. *Neuroimage* 88C:100-112.
68. **Garbarini F**, Pia L, Piedimonte A, Rabuffetti M, Gindri P, Berti A (2013). Embodiment of an alien hand interferes with intact-hand movements. *Current Biology* 23: 2-r57-R58.
69. **Garbarini F**, Piedimonte A, Dotta E, Pia L, Berti A (2013). Dissociations and similarities in motor intention and motor awareness: the case of anosognosia for hemiplegia and motor neglect. *Journal of Neurology, Neurosurgery & Psychiatry* 84(4): 416-419.
70. **Garbarini F** & Pia L (2013). Bimanual coupling paradigm as an effective tool to investigate productive behaviors in motor and body awareness impairments. *Frontiers in Neuroscience* 7:737.
71. Pia L, **Garbarini F**, Fossataro C, Fornia L, Berti A (2013). Pain and body awareness: evidence from brain-damaged patients with delusional body ownership. *Frontiers in Neuroscience* 7:1-9.
72. Pia L, Spinazzola L, Rabuffetti M, Ferrarin M, **Garbarini F**, Piedimonte A, Driver J, Berti A (2013). Temporal coupling due to illusory movements in bimanual actions: evidence from anosognosia for hemiplegia. *Cortex* 49: 1694-1703.
73. **Garbarini F**, Rabuffetti M, Piedimonte A, Pia L, Ferrarin M, Frassinetti F, Gindri P, Cantagallo A, Driver J, Berti A (2012). 'Moving' a paralysed hand: bimanual coupling effect in patient with anosognosia for hemiplegia. *Brain* 135(5): 1486-1497.
74. Adenzato M & **Garbarini F** (2006). The "As If" in cognitive science, neuroscience and anthropology: A journey among robots, blacksmiths, and neurons. *Theory & Psychology* 16:747-759.
75. **Garbarini F** & Adenzato M (2004). At the root of embodied cognition: Cognitive science meets neurophysiology. *Brain and Cognition*, 56: 100-106.

**Books** Berti A, **Garbarini F**, (2019). *L'uomo con tre mani. Storie di corpi e identità*. Il Mulino.

- Book chapters** **Garbarini F**, Pia L, Fossataro C, Berti A (2016). From pathological embodiment to a model for bodily awareness. In: *The body and the self, Revisited*, edited by Frederique de Vignemont and Adrian Alsmith. MIT Press.
- Berti A, **Garbarini F**, Neppi M (2015). Disorders of higher brain function. In: *Neurobiology of Brain Disorders*. San Diego: Elsevier.
- Berti A, **Garbarini F**, Pia L (2015). Non-awareness of action deficits. In Patick Haggard and Baruch Eitam (Ed.s), *Agency: Functions and Mechanisms*, Oxford University Press.
- Pia L, Piedimonte A, Berti A, **Garbarini F** (2013). I gemelli: uno sguardo alle neuroscienze. In: *Gemelli. Un approccio multidisciplinare*. Torino: ESPRESS EDIZIONI srl.
- Adenzato M. & **Garbarini F** (2012). Embodied Cognition. In Norbert M. Seel (Ed.), *Encyclopedia of the Sciences of Learning*, Springer Science, New York, pp. 1114-1116.

**Peer-reviewed  
conference  
proceedings**

1. Galigani M., Romeo M., Genovese F., Forster B., **Garbarini F**. (2021). *The tactile knowledge of visual body self*. Abstracts of the XXIX Congresso Nazionale Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).
2. Rossi Sebastiano, A., Gualtieri, S., Poles, K., Ronga, I., Fossataro, C., **Garbarini, F**. (2021). Somatosensory down-regulation following the rubber hand illusion: a predictive coding account *Abstracts of the XXIX Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF)*
3. Parmigiani, S., Rossi Sebastiano, A., Romeo, M., Cattaneo, L., **Garbarini, F.**, Sinigaglia, C. (2020). Human and clock hands: how joint-constraints shape motion perception. *Abstracts of the XXVIII Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience*

(SIPF)

4. Rossi Sebastiano, A., Fossataro, C., Poles, K., Gualtiero, S., Neppi-Modona, M., **Garbarini, F.** (2020). Expertise and injury experience in professional skiers modulate performance in predicting the outcome of observed ski-related actions. *Abstracts of the XXVIII Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF)*
5. Galigani M., Ronga I., Fossataro C., Bruno V., **Garbarini F.** *Saliency effect on visual change detection: face-like configurations modulate the N270 component. Abstracts of XXVII Congresso Nazionale SIPF, 14-16 November 2019, Ferrara (Italy).*
6. Puglisi G, Fornia L, Leonetti A, Bello L, Berti A, Cerri G, **Garbarini F.** (2018). Losing awareness during voluntary actions after virtual lesion of the premotor cortex. *Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).*
7. Bruno V, Sarasso P, Fossataro C, Ronga I, Neppi Modona M, **Garbarini F.** (2018). Illusory body experience in microgravity: the role of vestibular and proprioceptive inputs in shaping the sense of body ownership. *Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).*
8. Rossi Sebastiano A, Bruno V, Fossataro C, Ronga I, Neppi Modona M, **Garbarini F.** (2018). The rubber hand illusion induces pseudo tactile extinction in healthy subjects. *Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).*
9. Ronga I, Bruno V, Castellani N, Fossataro C, Galigani M, Neppi Modona M, **Garbarini F.** (2018). Near or far? Electrophysiological evidence of tool-use dependent spatial remapping in humans. *Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).*
10. Fossataro C, Tieri G, Grollero D, Bruno V, **Garbarini F.** (2018). Hand Blink Reflex in virtual reality: the role of vision and proprioception in modulating defensive responses. *Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF).*
11. Fossataro C, Ronga I, Bruno V, **Garbarini F.** (2018). Visual Enhancement of Touch and Body Ownership: an ERP study. *International Journal of Psychophysiology, 131S, S100.* <https://doi.org/doi:10.1016/j.ijpsycho.2018.07.276>.
12. Ronga I, Pace C, Bruno V, Fossataro C, Vitiello B, Gaglioti P, Todros T, **Garbarini F.** (2018). (Almost) before your eyes: Preference for face-like configurations in the prenatal life. *International Journal of Psychophysiology, 131S, S144.* <https://doi.org/doi:10.1016/j.ijpsycho.2018.07.385>.
13. Bruno V, Ronga I, Fossataro C, Capozzi F, **Garbarini F.** (2018). Suppressing movements with a phantom limb: an ERP study. *International Journal of Psychophysiology, 131S, S86.* <https://doi.org/doi:10.1016/j.ijpsycho.2018.07.244>.
14. Bruno V, Grollero D, Fossataro C, Ronga I, **Garbarini F.** (2017). Self-touch induces an opposite modulation of tactile discrimination and interoceptive awareness. *Abstracts of the VI Congress of the Italian Society of Neuropsychology (SINP).*
15. Fossataro C, Bruno V, Gindri P, Farnè A, **Garbarini F.** (2017). Modulation of tactile extinction in patients with pathological embodiment. *Abstracts of the VI Congress of the Italian Society of Neuropsychology (SINP).*
16. Bruno V, Ronga I, Fossataro C, **Garbarini F.** (2017). ERP modulations associated with no-movement awareness: P300 and N400 changes after long-term limb immobilization during a Go/Nogo task. *Abstracts of the XXV Annual Meeting of the Italian Society of Psychophysiology (SIPF).*
17. Fossataro C, Bruno V, Giurgola S, Bolognini N, **Garbarini F.** (2017). Rubber hand illusion susceptibility increases after motor cortex excitability inhibition. *Abstracts of the XXV Annual Meeting of the Italian Society of Psychophysiology (SIPF).*
18. **Garbarini F.**, Bruno V, Fossataro C, Zigiotta L, Bolognini N. (2017). The role of parietal cortex during monitoring of involuntary movement: a combined TMS and tDCS study. *Abstracts / Brain Stimulation, Volume 10, Issue 2, Pages 531-532.*
19. **Garbarini F.**, Cecchetti L, Bruno V, Fossataro C, D'Agata F, Sacco K, Ricciardi E, Berti A. (2016). The functional role of ventral Premotor Cortex in motor monitoring of voluntary actions: an fMRI study



- during mechanic limb immobilization. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 103.
20. Salatino A, Piedimonte A, Sarasso P, **Garbarini F**, Morelli F, Montanaro S, Ricci R, Berti A (2016). Role of the Premotor Cortex in the action monitoring: an rTMS study in healthy volunteers. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 166.
  21. Ronga I, Sarasso P, Fossataro C, **Garbarini F**, Neppi Modona M. (2016). Visuomotor Prismatic Training modulates visual detection thresholds in normal subjects. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 161.
  22. Burin D, Fossataro C, Pia L, **Garbarini F**. (2016). The sense of agency affects defensive responses: modulation of the corticospinal excitability during self-generated and other-generated pain. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 61
  23. Bruno V, Fossataro C, **Garbarini F**. (2016). Inhibition or facilitation? Modulation of corticospinal excitability during Motor Imagery. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 69.
  24. Fossataro C, Ronga I, Bruno V, Loiacono B, Bosso E, Neppi Modona M, **Garbarini F**. (2016). Visuomotor Prismatic Adaptation modulates tactile perception in healthy subjects. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 99.
  25. Loiacono B, Ronga I, Bruno V, Fossataro C, **Garbarini F**. (2016). I wanna hold your hand: other-touch induces sensory attenuation as in self-touch. Abstracts of the XXIV Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 20/2016: 117.
  26. **Garbarini F**, Bucchioni G, Fossataro C, Bruno V, Cavallo A, Pia L, Neppi-Modona M (2015), Empathy or Ownership? Evidence of corticopinal modulation during pain observation. In: In Proceedings of the 5th Meeting of the federation of the European Societies for Neuropsychology (FESN): 77.
  27. Pia L, Fossataro C, Piedimonte A, Burin D, **Garbarini F**, Spinazzola L, Bellan G, Gindri P, Fotopoulou A. (2015) The pathological embodiment of someone else's arm: an anatomical account. Evidence of corticopinal modulation during pain observation. In: In Proceedings of the 5th Meeting of the federation of the European Societies for Neuropsychology (FESN): 117.
  28. Bove M, Biggio M, Falsini E, Fossataro C, **Garbarini F**, Bisio A. (2015) Hand Blink Reflex modulation during a voluntary movement. Program No. 343.13. 2015 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2015. Online.
  29. Bruno V, Fossataro C, Bolognini N, Nessi T, Zigiotta L, **Garbarini F** (2015). The role of premotor and parietal cortex during monitoring of involuntary movement: a combined TMS and tDCS study. Abstracts of the XXIII Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 18: 87.
  30. Fossataro C, Bucchioni G, Bruno V, D'Agata, **Garbarini F** (2015). Pain expectancy induces freezing effects as in the actual pain: Evidence from corticospinal modulation during classical conditioning paradigm. Abstracts of the XXIII Annual Meeting of the Italian Society of Psychophysiology (SIPF), in *Neuropsychological Trends* 18: 104.
  31. **Garbarini F**, Bisio A, Biggio M, Pia L, Bove M (2014). Phantom learning: intermanual transfer of sequence learning in an amputee with phantom limb. Abstracts of the XXII Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 16: 94.
  32. Fossataro C, Pia L, Berti A, **Garbarini F** (2014). Defensive responses in brain-damage patients with pathological embodiment of someone else's body part. Abstracts of the XXII Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 16: 92.
  33. Fossataro C, Bisio A, Falsini E, **Garbarini F**, Bove M (2014). Hand blink reflex modulation during a voluntary movement. Abstracts of the XXII Annual Meeting of the Italian Society of Psychophysiology

(SIPF) in *Neuropsychological Trends* 16: 91.

34. Della Gatta F, **Garbarini F**, Puglisi G, Leonetti A, Berti A, Borroni P (2014). The effect of the rubber hand illusion on motor cortex excitability. Abstracts of the XXII Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 16: 83
35. **Garbarini F**, Neppi-Modona M, Fossataro C, Della Gatta F, Gindri P., Maravita A, and Berti A (2013). Overestimation of forearm length in brain-damaged patients following pathological embodiment of an alien arm performing finalized actions with a tool. In Abstracts of the spring meeting of the Italian Society of Neuropsychology (SINP): 10.
36. **Garbarini F**, Dagata F, Sacco K, Cossa FM, Geminiani G (2013). Dynamic causal modeling of cortical activity during execution or imagination of movements with a paralyzed limb. Abstracts of the XXI Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 14.
37. Fossataro C, **Garbarini F**, Sambo C, Iannetti D (2013). Alien hands and defensive peripersonal space. Abstracts of the XXI Annual Meeting of the Italian Society of Psychophysiology (SIPF) in *Neuropsychological Trends* 14.
38. **Garbarini F**, Fonia L, Pia L, Gallese V, Gndri P, Berti A (2012). "Feeling" pain in an alien hand. Evidence from skin conductance response in pathological embodiment of other people's body part. Abstracts of the XX Annual Meeting of the SIPF in *Archives Italiennes de Biologie* 29.
39. Pia L, **Garbarini F**, Spinazzola L, Ferrarin M, Rabuffetti M, Piedimonte A, Driver J, Berti A. (2012) Interlimb coupling due to illusory movements: evidence from anosognosia for hemiplegia. In Abstracts of the Annual Cognitive Neuroscience Society (CNS) Meeting; *Journal of Cognitive Neuroscience*, (supp.).
40. **Garbarini F**, Pia L, Piedimonte A, Rabuffetti M, Solito G, Gindri P, Berti A (2012). Your hand is my hand! Bimanual coupling effect in a somatoparaphrenic patient. In Abstracts of the Annual Cognitive Neuroscience Society (CNS) Meeting; *Journal of Cognitive Neuroscience*, (supp.).
41. **Garbarini F**, Pia L, Fonia L, Rabuffetti M, Gindri P, Piedimonte A, Berti A (2012). Body awareness impairment: experimental findings on pathological embodiment of other people's body parts. In Abstracts of the autumn meeting of the Italian Society of Neuropsychology (SINP): 9.
42. **Garbarini F**, Piedimonte A, Pia L, Rabuffetti M, Gindri P, Berti A (2012). Bimanual coupling effect in somatoparaphrenic patients. In Abstracts of the spring meeting of the Italian Society of Neuropsychology (SINP): 8.
43. **Garbarini F**, Berti A, Piedimonte A, Cantagallo A, Pia L (2011). Anatomic-functional dissociation between bimanual symmetric and bimanual asymmetric movements: evidence from motor neglect. In Abstracts of the International Conference on Parietal lobe Function: 18.
44. **Garbarini F**, Rabuffetti M, Piedimonte A, Tocchi G, Frassinetti F, Pia L, Ferrarin M, Driver J, Berti A (2010). The effect of intention to move on motor execution: the case of anosognosia for hemiplegia. In Abstracts of FENS-IBRO Summer School. Cognition and action: Systems neuroscience approaches to understanding complex behaviour: 43.

**Peer-reviewed  
conference  
posters**

1. Rossi Sebastiano A, Fossataro C, Tieri G, Poles K, Galigani M, Castellani N, Pyasik M, Bruno V, **Garbarini F** (2020). Multisensory integration in virtual reality: the role of vision and proprioception in coding the arm position in space. 38th Workshop on Cognitive Neuropsychology 27-30 January 27th-30th 2020, Brixen (Italy).
2. Galigani M., Bruno V., Fossataro C., Castellani N., Poles K., Rossi Sebastiano A., **Garbarini F**. You or me? Pathological embodiment after brain damage alters the self-other body boundary. 38th Workshop on Cognitive Neuropsychology January 27th-30th 2020, Brixen (Italy)
3. Rossi Sebastiano A, Bruno V, Galigani M, Fossataro C, Ronga I, Neppi-Modona M, **Garbarini F** (2019). The rubber hand illusion induces an up regulation of visual detection. XXVII Congresso Nazionale SIPF November 14th-16th 2019, Ferrara (Italy).
4. Galigani M., Ronga I., Fossataro C., Bruno V., **Garbarini F**. Salience effect on visual change detection: face-like configurations modulate the N270 component. XXVII Congresso Nazionale

- SIPF, November 14-16th 2019, Ferrara (Italy).
5. Galigani M., Ronga I., Fossataro C., Bruno V., **Garbarini F.** For the face only: mismatch detection reveals face-like configuration preference. 7th scientific meeting of FESN. September 5th-7th 2019, Milan (Italy).
  6. Fossataro C., Galigani M., Rossi Sebastiano A., Ronga I., Bruno V., **Garbarini F.** You or me? Defining the boundaries of self-other peripersonal space. The Fuzzy Body, Brain Representation Network. November 6th 2019, Milan (Italy).
  7. Ronga I, Bruno V, Castellani N, Galigani M, Neppi-Modona M, Fossataro C, Valentini E., **Garbarini F.** Coming closer: Electrophysiological evidence of tool-use .37th Workshop on Cognitive Neuropsychology January 21th-25th 2019, Brixen (Italy).
  8. Ronga I, Bruno V, Castellani N, Galigani M, Neppi-Modona M, Fossataro C, Valentini E., **Garbarini F.** Spatial remapping following tool-use: An electrophysiological study in humans. VII Congresso SINP, November 23th-24th 2018, Roma (Italy).
  9. Ronga I, Bruno V, Castellani N, Galigani M, Neppi-Modona M, Fossataro C, **Garbarini F.** Near or far? Electrophysiological evidence of tool-use dependent spatial remapping in humans. XXIV Congresso Nazionale SIPF, November 15th-17th 2018, Torino (Italy).
  10. Rossi Sebastiano, A., Bruno, V., Fossataro, C., Ronga, I., Neppi Modona, M., Garbarini, F. (2018). The rubber hand illusion induces pseudo tactile extinction in healthy subjects. XXIV Congresso Nazionale SIPF, November 15th-17th 2018, Torino (Italy).
  11. Scarpina F, Fossataro C, Rossi Sebastiano A, Bruni F, Scacchi M, Mauro A, Garbarini, F. (2018). Sense of agency and obesity: evidence of the alteration of sensory attenuation mechanism in affected individuals. XXIV Congresso Nazionale SIPF, November 15th-17th 2018, Torino (Italy).
  12. Bruno V, Ronga I, Fossataro C, **Garbarini F.** (2018). Long-term limb immobilization modulates inhibition-related electrophysiological brain activity. D-Day 2018, Sept 13th, Turin, Italy.
  13. Bruno V, Grollero D, Ronga I, Fossataro C, Capozzi F, **Garbarini F.** (2018). Inhibitory motor response with a phantom limb: an ERP study. MeeTo 2018: from moving bodies to interactive minds. May 25th-27th 2018, Turin, Italy.
  14. Fossataro C, Bonarrigo M, Ronga I, Bruno V, **Garbarini F.** (2018). Body awareness and multisensory integration: an ERP study. MeeTo 2018: from moving bodies to interactive minds. May 25th-27th 2018, Turin, Italy.
  15. Ronga I, Galigani M, Fossataro C, Bruno V, **Garbarini F.** (2018). Me, my hand, and I. Repeated stimulation highlights a possible correlate of self-body recognition in visual ERPs. MeeTo 2018: from moving bodies to interactive minds. May 25th-27th 2018, Turin, Italy.
  16. Bruno V, Ronga I, Fossataro C, **Garbarini F.** (2018). No-movement awareness induces ERP modulations after long-term limb immobilization in a Go/Nogo task. 25th Cognitive Neuroscience Society 2018 Annual Meeting. March 24th-27th 2018, Sheraton Hotel, Boston, Massachusetts.
  17. Fossataro C, Bruno V, Giurgola S, Bolognini N, **Garbarini F.** (2018). Rubber Hand Illusion enhancement induced by motor cortex inhibition. 25th Cognitive Neuroscience Society 2018 Annual Meeting. March 24th-27th 2018, Sheraton Hotel, Boston, Massachusetts.
  18. Bruno V, Ronga I, Fossataro C, **Garbarini F.** (2017). No-movement awareness induces ERP modulations in a Go/Nogo task. 10th Anniversary of the Center for Mind/Brain Science (CIMeC) of the University of Trento. Oct 19th-21st 2017, Rovereto, Italy.
  19. Fossataro C, Bruno V, Giurgola S, Bolognini N, **Garbarini F.** (2017). Motor system inhibition enhances the rubber hand illusion susceptibility. 10th Anniversary of the Center for Mind/Brain Science (CIMeC) of the University of Trento. Oct 19th-21st 2017, Rovereto, Italy.
  20. Bruno V, Fossataro C, **Garbarini F.** (2016). Inhibition or facilitation? Modulation of corticospinal excitability during Motor Imagery. 35th European Workshop on Cognitive Neuropsychology. January 22th-27th 2016, Brixen, Italy.
  21. **Garbarini F.**, Carpinella I, Rabuffetti M, Bruno V, De Giulii L, Ferrarin M. (2016). The role of motor intention in shaping the body metric representation: Tool-use training with and without robotic

- assistance. XVII Congresso Societa' Italiana di Analisi del Movimento in Clinica (SIAMOC), Milan, Italy, October the 6th.
22. Bruno V, Cecchetti L, Fossataro C, Mastropasqua A, D'Agata F, Ricciardi E, Berti A, **Garbarini F**. (2016). The functional role of ventral premotor cortex in motor monitoring: an fMRI study during movement execution and mechanic limb immobilization. 10th Annual Rovereto Workshop on Concepts, Actions and Objects (CAOs), Rovereto (TN), Italy, May 5th-8th.
  23. **Garbarini F**, Mastropasqua A, D'Agata F, Destefanis C, Fossataro C, Bruno V, Sacco K, Massazza G, Valentini C and Berti A (2016). The functional role of dorsal premotor cortex in motor monitoring: an fMRI study during movement execution and mechanic limb immobilization. 34th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 24th-29th.
  24. **Garbarini F**, Falchero M, Fossataro C, Rossetti A, Vallar G, Bolognini N (2015). Mirror-touch synaesthesia after brain damage. Poster presented at the 16<sup>th</sup> International Multisensory Research Forum, Pisa, Italy, June 13th-16th.
  25. Bucchioni G, Fossataro C, Cavallo A, Krystkowiec KP, Godefroy O, Mouras H, **Garbarini F** (2015). Does empathy is the only framework to explain the corticospinal modulation during pain observation? Poster presented at the 12 Colloque Société des Neurosciences, Montpellier, France. May the 15th.
  26. **Garbarini F**, Bucchioni G, Fossataro C, Bruno V, Cavallo A, Pia L, Neppi-Modona M (2015), Empathy or Ownership? Evidence of corticospinal modulation during pain observation. In: 5<sup>th</sup> Conference of the Federation of the European Societies of Neuropsychology, Tampere, Finland, September 9th-11th.
  27. Pia L, Fossataro C, Piedimonte A, Burin D, **Garbarini F**, Spinazzola L, Bellan G, Gindri P, Fotopoulou A. (2015) The pathological embodiment of someone else's' arm: an anatomical account. Evidence of corticospinal modulation during pain observation. In: 5<sup>th</sup> Conference of the Federation of the European Societies of Neuropsychology, Tampere, Finland, September 9th-11th.
  28. Diano M, **Garbarini F**, Biggio M, Radicioni D, Marconi D, Sacco K (2015). The role of visual imagery in lexical competence: an fMRI study. In: Images Of The Mind conference, Università di Milano-Bicocca, Milano (Italy), April 8th-9th.
  29. Fossataro C, Berti A, **Garbarini F** (2015). Does sense of agency and body ownership modulate physiological defensive response? Evidence from the Hand Blink Reflex. In: 33th European Workshop on Cognitive Neuropsychology. Brixen (Italy), January 25th-30th.
  30. Fossataro C, Pia L, Berti A, Gindri P, **Garbarini F** (2014). Pathological embodiment of other's hand elicits physiological defensive responses similar to one's own hand. In: Italian Society of Neuropsychology (SINP) annual meeting, Napoli, Italy, October 23rd-24th.
  31. **Garbarini F**, Neppi-Modona M, Fossataro C, Pia L, Della Gatta F, Maravita A, Berti A. (2014). Overestimation of forearm length in brain-damaged patients following pathological embodiment of an alien arm performing finalized actions with a tool. In: 32th European Workshop on Cognitive Neuropsychology. Brixen Italy, January 27th-31st.
  32. **Garbarini F**, Forna L, Gallese V, Pia L, Gindri P, Berti A (2013). Your pain is mine: skin conductance response in brain-damaged patients with delusion of ownership. In: 31th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 20th-25th.
  33. **Garbarini F**, Pia L, Piedimonte A, Ferrarin M, Solito G, Gindri P, Berti A (2012). Your hand is my hand! Bimanual coupling effect in a somatoparaphrenic patient. 30th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 22nd-27th.
  34. **Garbarini F**, Piedimonte A, Berti A, Cantagallo A, Pia L (2011). Anatomico-functional dissociation between bimanual symmetric and bimanual asymmetric movements: evidence from motor neglect. 29th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 23rd-28th.
  35. Piedimonte A., **Garbarini F.**, Ferrarin M, Berti A, Rabuffetti M (2011). Grasping in the mirror: the interference of action observation on action execution. 29th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 23rd-28th.
  36. **Garbarini F**, Rabuffetti M, Piedimonte A, Tocchi G, Frassinetti F, Pia L, Ferrarin M, Driver J, Berti A

(2010). The effect of intention to move on motor execution: the case of anosognosia for hemiplegia. 28th European Workshop on Cognitive Neuropsychology. Brixen, Italy, January 24th-29th.

37. **Garbarini F**, Piedimonte A, Pia L, Berti A, Cantagallo A (2010). Valutazione del motor neglect mediante batteria di movimenti bimanuali. III convegno nazionale Gruppo Interprofessionale di Riabilitazione in Neuropsicologia (G.I.R.N.). Padua, (Italy) 8-9 October

**Italian journal papers**

Berti A, **Garbarini F** (2014). Il cervello cosciente: un approccio neuropsicologico allo studio dell'esperienza consapevole. Rivista di Filosofia 104 (3):383-402.

**Garbarini F** (2005). Il cervello è più grande del cielo. L'indice dei Libri del Mese.

**Garbarini F** (2005). Pikaia Gracilens. L'indice dei Libri del Mese.

**Garbarini F** (2005). Scienziati scrittori? L'indice dei Libri del Mese.

**Garbarini F** (2005). Tra le due culture. L'indice dei Libri del Mese.

**Garbarini F** (2005). Vocazione, gusto per l'imprevisto e sostegni per la ricerca. L'indice dei Libri del Mese.

**Book reviews**

**Garbarini F** (2008). Rizzolatti G, Voza L - Nella mente degli altri. Neuroni specchio e comportamento sociale. L'Indice dei Libri del Mese.

**Garbarini F** (2006). Rizzolatti G - Sinigaglia C. - So quel che fai. Il cervello che agisce e i neuroni specchio. L'Indice dei Libri del Mese.

**Garbarini F** (2006). Vidal C, Benoit-Browaey D. Il sesso del cervello. L'Indice dei Libri del Mese.

**Garbarini F** (2005). Lakoff G, Nunez R - Da dove viene la matematica. L'Indice dei Libri del Mese.

**Garbarini F** (2005). Vallortigara G. - Cervello di gallina. L'Indice dei Libri del Mese.

**Books translations**

Ferraresi S, **Garbarini F** (2006). La mente Etica. TORINO:Codice (Michael Gazzaniga, The Etical brain).

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