

PERSONAL INFORMATION

Alice Rossi Sebastiano



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🆔 **ORCID:** [0000-0003-0124-4704](https://orcid.org/0000-0003-0124-4704)

Affiliation: MANIBUS Lab (Movement ANd body In Behavioral and physiological neuroscience)

💬 Skype [alicerossisebastiano](https://www.skype.com/people/alicerossisebastiano)

Sex: Female | Date of birth: 29/09/1994 | Nationality: Italian

EDUCATION

- 2018 **Master degree in Body and Mind Sciences (Cognitive Neuroscience) (110/110 cum laude)**
University of Turin, Italy
- 2016 **Bachelor degree in Psychological Sciences and Techniques (110/110 cum laude)**
University of Turin, Italy
- 2013 **High school degree (100/100)**
Classical Liceum Vincenzo Gioberti, Turin, Italy

ACADEMIC APPOINTMENTS

- 2018-now **PhD Student in Neuroscience**
Department of Psychology, University of Turin
- 2018-now **PhD representative in the PhD Program Committee**
PhD program in Neuroscience, University of Turin
- 2018-2021 **PhD representative in the Research Committee**
Department of Psychology, University of Turin

ACADEMIC INTERNSHIP

- 2015 **Internship at the Neuropsychological Service of the Neurology Department, Martini Hospital, Turin, Italy**
Neuropsychological assessment & rehabilitation of neurological patients with brain injury

RESEARCH AREAS

Cognitive Neuroscience – Neuropsychology - Neurophysiology

Bodily and motor awareness and multisensory integration in healthy and pathological populations investigated both at the behavioural and neurophysiological level; neuropsychological and neurological disorders; use of immersive virtual reality (IVR), neuroimaging (Electroencephalography – EEG) and non-invasive brain stimulation techniques (Transcranial Magnetic Stimulation – TMS) in Cognitive Neuroscience.

TEACHING EXPERIENCE

- 2022** Expert in the subject of **Body representation in normal and pathological condition (M-PSI/02)** and **Neuropsychology of Action (M-PSI/02)**
- 2020-2021** Teacher of **Journal Club PhD course, [502204] NEUROSCIENZE** – Neuroscience PhD Program, University of Turin, Turin, Italy
- 2020-now** As collaborator: **Recording and analysis of physiological signals - Lab (PSI0946)**– Prof. Francesca Garbarini, Master's degree in psychology, University of Turin, Turin, Italy
- 2018-now** As collaborator: **The research with brain-damaged patients in experimental neuropsychology – Lab (PSI0601)** – Prof. Francesca Garbarini, Master's degree in psychology, University of Turin, Turin, Italy
- 2018-now** Co-supervisor of Master students up to their licentiate degree

RELEVANT SKILLS

Computer Science: Operating systems: Windows e Macintosh; Application softwares: Office; Statistical softwares: Statistica, SPSS, G*Power, Crawford statistical softwares (single case methodology), GraphPad Prism, Statlite; Morphological and functional neuroimaging software: MRICron; EEG preprocessing and analysis softwares: Letswave in MatLab; Other softwares: Unity, E-Prime, Psyt toolkit, Audacity, Avidemux, Canvas.

Others: Neuropsychological and neurophysiological experimental design and data analysis; Immersive Virtual Reality (IVR); Electrophysiological data (EEG) preprocessing and analysis; Morphological and functional neuroimaging techniques (MRI, fMRI, DTT); non-invasive brain stimulation techniques (TMS); Clinical neuropsychological diagnosis and rehabilitation. Social and team working skills.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- 2019** Member, Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF, Italy)

AWARDS AND HONORS

- 2020** **Best Master Theses Award (2017/2018)**
University of Turin (<https://www.unito.it/avvisi/migliori-laureati-dellanno-accademico-201718>)

GRANTS

- 2020** As team member & collaborator: **Bial Foundation 2020 Grant** to Carlotta Fossataro
Project entitled “How body ownership shapes tactile awareness: inducing phantom sensations and measuring their electrophysiological correlates in immersive virtual reality” (code number: 311/2020; funding: 44.000 €)

LANGUAGES

Italian (mother tongue)
English (understanding: C2 – speaking: C1 – writing: C1)

SCIENCE COMMUNICATION & MEDIA

- 2021** **European Researchers' Night**
Orto Botanico, University of Turin 24/09/2021
- 2020** **European Researchers' Night**
Virtual event, 16/11/2020 – 27/11/2020
- 2019** **European Researchers' Night**

- Laboratorio dei XKè, 27th September 2019, Turin, Italy
- 2019** **Organizer of "Eating Disorders and Substance abuse. The impact of stressful lifestyles on brain functioning" (daily congress)**
Neuroscience Department (University of Turin), 1st March 2019, Turin, Italy.
- 2018** **Make Your Brain**
Palazzo Badini, 29th September 2018, Turin, Italy.
- 2017** **European Researchers' Night**
Piazza Castello, 29th September 2017, Turin, Italy

TALKS

- 2022** **Rossi Sebastiano, A.**, Ronga, I., Poles, K., Russo, S., Comanducci, A., Barbieri, P., Rocco, G., Peila, C., Perathoner, C., Bertino, E., Pigorini, A., Garbarini, F. The emergence of consciousness-state dependent complexity: SEPs and Perturbation Complexity Index in newborns and young infants. Abstracts of the XXIX Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), Sept 15th, 2022, Udine, Italy.
- 2021** **Rossi Sebastiano A.**, Poles K., Miller L.E., Romeo M., Fossataro C., Garbarini F. Reach planning with someone else's hand, National Congress of the Italian Society of Neuropsychology, Nov 18th-20, 2021, Modena, Italy.
- Rossi Sebastiano A.**, Fossataro C., Ronga I., Garbarini F. Tactile rooting of the sense of body ownership: early somatosensory activity predicts the strength of the rubber hand illusion susceptibility, The Sense of Touch Workshop, Sept 30th (virtual meeting)
- 2020** **Rossi Sebastiano A.**, Body representation in the healthy and pathological brain: the embodiment of the motor properties of incorporated alien hands, Journal Club, Nov 5th 2020 (virtual meeting).
- 2018** **Rossi Sebastiano A.**, Galigani M., Castellani N. Multisensory Integration in Microgravity. Behavioral and physiological evidence from visual enhancement of touch. Fly Your Thesis! Selection Workshop, European Space Agency (ESA Education), 11st-12th October 2018, ESA-ESTEC (Noordwijk), Netherlands.

PUBLICATIONS

Peer-reviewed conference proceedings

- Rossi Sebastiano, A.**, Romeo, M., Galigani, M., Genovese, F., Gindri, P., Fossataro, C., Garbarini, F. (2022). The interplay between motor resonance and body ownership: an electrophysiological study in brain-damaged patients with pathological embodiment. Abstracts of the Body Representation Network (BRNet) workshop, Sion, Switzerland.
- Rossi Sebastiano, A.**, Ronga, I., Poles, K., Russo, S., Comanducci, A., Peila, C., Perathoner, C., Bertino, E., Pigorini, A., Garbarini, F. (2022). Discriminating different states of consciousness exploiting SEPs and Perturbation Complexity Index in newborns. Abstracts of the XXIII International Congress of Infant Studies (ICIS), Ottawa, Canada.
- 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), Palermo, Italy.
- Rossi Sebastiano, A.**, Fossataro, C., Poles, K., Gualtieri, 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), virtual meeting.
- 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), virtual conference.

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, Brixen, Italy.

Galigani, M., Bruno, V., Fossataro, C., Poles, K., Castellani, N., **Rossi Sebastiano, A.**, Garbarini, F. (2020). You or me? Pathological embodiment after brain damage alters the self-other body boundary. 38th Workshop on Cognitive Neuropsychology, Brixen, Italy.

Fossataro, C., Galigani, M., **Rossi Sebastiano, A.**, Ronga, I., Bruno, V., Garbarini, F. (2019). You or me? Defining the boundaries of self-other peripersonal space. Abstracts of The Fuzzy Body, Body Representation Network (BRNet) workshop 2019, Milan, Italy.

Galigani, M., Ronga, I., Fossataro, C., **Rossi Sebastiano, A.**, Bruno, V., Garbarini, F. (2019). For the face only: mismatch detection reveals face-like configuration preference. Abstracts of the 7th scientific meeting of the Federation of the European Societies of Neuropsychology (FESN), Milan, Italy.

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. Abstracts of the XXVII Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), Ferrara, Italy.

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), Turin, Italy.

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. Abstracts of the XXVI Annual Meeting of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), Turin, Italy.

Peer-reviewed journal papers

Rossi Sebastiano A., Poles K., Miller L.E., Fossataro C., Milano E., Gindri P., Garbarini F. (2022) Reach planning with someone else's hand. *Cortex*. <https://doi.org/10.1016/j.cortex.2022.05.005>

Errante A., **Rossi Sebastiano A.**, Ziccarelli S., Bruno V., Pia L., Fogassi L., Garbarini F. (2022) Structural connectivity associated with the sense of body ownership: a DTI and disconnection study in patients with bodily awareness disorder. *Brain Communications*. [10.1093/braincomms/fcac032](https://doi.org/10.1093/braincomms/fcac032)

Rossi Sebastiano A., 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 & Exercise*, 58, 102092. <https://doi.org/10.1016/j.psychsport.2021.102092>

Scarpina F., Fossataro C., **Rossi Sebastiano A.**, Bruni F., Scacchi M., Mauro A., Garbarini F. (2021). Behavioral evidence of altered sensory attenuation in obesity. *Quarterly Journal of Experimental Psychology*. <https://doi.org/10.1177/17470218211065766>

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*, 0123456789. <https://doi.org/10.1007/s00426-021-01608-0>

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*, <https://doi.org/10.1016/j.cortex.2021.08.004>

Galigani M., Ronga I., Fossataro C., Bruno V., Castellani N., **Rossi Sebastiano A.**, Forster, B., Garbarini F. (2021) 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>

Fossataro C, **Rossi Sebastiano A.**, Tieri G, Poles K, Galigani M, Pyasik M, **Bruno V**, Bertoni T, Garbarini F. (2020). Immersive virtual reality reveals that visuo-proprioceptive discrepancy enlarges the hand-centred peripersonal space. *Neuropsychologia*, <https://doi.org/10.1016/j.neuropsychologia.2020.107540>

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*, <https://doi.org/10.1016/j.neuroimage.2020.116897>

Galigani M., Ronga I., Bruno V., Castellani N., **Rossi Sebastiano A.**, Fossataro C., Garbarini F. (2020) Face-like configurations modulate electrophysiological mismatch responses. *European Journal of Neuroscience*, <https://doi.org/10.1111/ejn.15088>