

Maria Luisa De Martino

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WORK EXPERIENCE

Research collaboration grant at Fondazione Santa Lucia IRCCS, Rome – Body and Action Lab, Research project: “RF-2018-12365682 STAND-ALONE: “Stand and walk”.” cod RF 18.82 financed by Ministry of Health

IRCCS - Fondazione Santa Lucia (Rome) [07/2022 – 11/2022]

City: Rome | Country: Italy

Research activities in the field of cognitive psychology and clinical neuroscience. Collection of behavioural and physiological data regarding several cognitive functions, as executive functions, time perception and interoception, on healthy and clinical populations; application of techniques modulating brain activity, particularly transcutaneous auricular vagal nerve stimulation (taVNS).

EDUCATION AND TRAINING

Bachelor’s Degree, Psychological Sciences and Techniques

Sapienza - University of Rome inter-university with “Unitelma Sapienza” [14/09/2020]

City: Rome | Country: Italy | Field(s) of study: Health and welfare | Final grade: 110/110 cum laude | Thesis: Rehabilitation challenges between technology and the body: the potential of embodying and being embodied

Three-year bachelor's degree (EU classification) providing knowledge and educational experience about the most recent issues in the psychological field and conducted with innovative methods.

Master’s Degree in Cognitive Neuroscience and Psychological Rehabilitation.

Sapienza - University of Rome [10/2020 – 15/07/2022]

City: Rome | Country: Italy | Field(s) of study: Health and welfare | Final grade: 110/110 cum laude | Thesis: An interoceptive perspective of time prediction in patients with spinal cord injury

Psychology trainee: Theoretical and practical training in clinical psychology, cognitive and behavioural neuroscience under the supervision of Professor Mariella Pazzaglia

IRCCS – Fondazione Santa Lucia [01/2023 – 11/2023]

City: Rome | Country: Italy

Main topics: bodily experience in patients with Spinal Cord Injury, the relationship between interoception and time perception in clinical and healthy populations, also by the use of non-invasive brain stimulation techniques . Research techniques: taVNS, tDCS and autonomic measurements (i.e. Heart rate variability).

Doctor of Philosophy (PhD), Psychology and Cognitive Science

Sapienza - University of Rome [01/11/2022 – Current]

City: Rome | Country: Italy

Winner of a scholarship for the three years PhD programme

Tutor: Professor MariellaPazzaglia

Main Research topics: “Predictive mechanisms of interoceptive awareness: condition, interventions and manipulations that stimulate or inhibit the activity of Interoception”.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Word / Microsoft Powerpoint / Microsoft Excel / Kubios HRV / IBM Statistical package for Sciences (SPSS) / Statistics and Analytics with JASP / Reference management software (Zotero, EndNote) / knowledge of presentation platforms (PowerPoint, Prezi, Canva)

HONOURS AND AWARDS

La Sapienza - University of Rome

- Winner of 2023 Master Degree Thesis Prize on disability or learning disorders (SLDs)

Sapienza - University of Rome

Winner of Early Career Research Grant (years 2023-2024) project *"Dreaming body representation instability: the oneiric experience in patients with spinal cord injury"*

PEER REVIEW ACTIVITY FOR INTERNATIONAL JOURNAL

Reviewer for PLoS ONE, ISSN: 1932-6203.

PUBLICATIONS

[2021]

Rebuilding Body-Brain Interaction from the Vagal Network in Spinal Cord Injuries. De Martino, M. L., De Bartolo, M., Leemhuis, E., & Pazzaglia, M. (2021). Rebuilding Body-Brain Interaction from the Vagal Network in Spinal Cord Injuries. *Brain sciences*, 11(8), 1084. <https://doi.org/10.3390/brainsci11081084>

De Martino, M. L., De Bartolo, M., Leemhuis, E., & Pazzaglia, M. (2021) *Brain sciences*, 11(8), 1084

[2022]

Rethinking the Body in the Brain after Spinal Cord Injury. Leemhuis, E., Giuffrida, V., De Martino, M. L., Forte, G., Pecchinenda, A., De Gennaro, L., Giannini, A. M., & Pazzaglia, M. (2022). Rethinking the Body in the Brain after Spinal Cord Injury. *Journal of clinical medicine*, 11(2), 388. <https://doi.org/10.3390/jcm11020388>

Leemhuis, E., Giuffrida, V., De Martino, M. L. et al. (2022) *J. of clinical medicine*, 11(2), 388

[2022]

Ear your heart: transcutaneous auricular vagus nerve stimulation on heart rate variability in healthy young participants Forte, G., Favieri, F., Leemhuis, E., De Martino, M. L., Giannini, A. M., De Gennaro, L., Casagrande, M., & Pazzaglia, M. (2022). Ear your heart: transcutaneous auricular vagus nerve stimulation on heart rate variability in healthy young participants. *PeerJ*, 10, e14447. <https://doi.org/10.7717/peerj.14447>

Forte, G., Favieri, F., Leemhuis, E., De Martino, M. L. et al. (2022) *PeerJ*, 10, e14447

[2022]

Abstract: "An interoceptive perspective of time perception in spinal cord injury" Abstract: "An interoceptive perspective of time perception in spinal cord injury" - M. L. DE MARTINO^{1,2}, E. LEEMHUIS², A. SCUDERI^{1,2}, M.

PAZZAGLIA^{1,2}; ¹Sapienza Univ. of Rome, Rome, Italy; ²Fondazione Santa Lucia - IRCCS, Rome, Italy – Poster presented at “Neuroscience 2022”, 12-16 November in San Diego (California).

Poster presented at “Neuroscience 2022”, 12-16 November in San Diego (California).

[2022]

Abstract: “Rebuilding the body from the inside: interoception and the bodily self following spinal cord injuries.” Abstract: “Rebuilding the body from the inside: interoception and the bodily self following spinal cord injuries.” SCUDERI, A.; DE MARTINO, M.L.; LEEMHUIS, E.; PAZZAGLIA, M. – Poster presented at Neuroscience 2022, which took place 12-16 November in San Diego, California.

Poster presented at Neuroscience 2022, which took place 12-16 November in San Diego, California.

[2022]

Abstract: “Beyond the wheelchair: how exoskeleton training redefines mobility and somatic sensation for incomplete spinal cord injury patients” Abstract: “Beyond the wheelchair: how exoskeleton training redefines mobility and somatic sensation for incomplete spinal cord injury patients” Maria Luisa De Martino, Sara Tranquilli, Erik Leemhuis, Angelica Scuderi, Anna Maria Giannini, Mariella Pazzaglia - Poster presentation at European Congress of NeuroRehabilitati on 30 August – 2 September 2023, Lyon (France).

Poster presentation at European Congress of NeuroRehabilitati on 30 August – 2 September 2023, Lyon

[2023]

Abstract: “Clocking the Body: investigating the link between Interoception and Time Perception in Spinal Cord Injury” Abstract: “Clocking the Body: investigating the link between Interoception and Time Perception in Spinal Cord Injury” Maria Luisa De Martino, Angelica Scuderi, Erik Leemhuis, Mariella Pazzaglia - Poster presentation at 3rd Conference of the Timing Research Forum - Talks & Posters, Lisbon, Portugal 4-6 October, 2023.

Poster presentation at 3rd Conference of the TRF - Talks & Posters, Lisbon 4-6 October, 2023

[2023]

Abstract: “Lost in time: il legame tra interocezione e percezione del tempo in pazienti con lesione al midollo spinale” Abstract: “Lost in time: il legame tra interocezione e percezione del tempo in pazienti con lesione al midollo spinale” Maria Luisa De Martino, Angelica Scuderi, Erik Leemhuis, Anna Maria Giannini, Mariella Pazzaglia – Oral Presentation at the conference of the “Associazione Italiana di Psicologia - sezione sperimentale”, 17 – 19 September, 2023 in Lucca (Italy).

Oral Presentation at the conference of the “AIP-experimental section”, 17–19 September, 2023 - Lucca

[2024]

Abstract: “Rhythm of the body, rhythm of the brain: exploring the relationship between interoception and time perception through auricular vagus nerve stimulation (taVNS)” Abstract: “Rhythm of the body, rhythm of the brain: exploring the relationship between interoception and time perception through auricular vagus nerve stimulation (taVNS)” - Maria Luisa De Martino, Angelica Scuderi, Erik Leemhuis, Mariella Pazzaglia – Poster Presentation at FENS Forum 2024 (Federation of European Neuroscience Societies), 25-29 June, 2024, Vienna (Austria).

Poster Presentation at FENS Forum 2024, 25-29 June, 2024, Vienna

CV updated 2 Julyth 2024 - I hereby consent to the processing of the data I provided in this CS. I declare my agreement with the data protection regulations in the data privacy statement