

Curriculum Vitae

Sonia Turrini

CITIZENSHIP	Italian
OFFICE ADDRESS	Centro Studi e Ricerche in Neuroscienze Cognitive - Università di Bologna Viale Rasi e Spinelli, 176 47521, Cesena (FC), Italia email: sonia.turrini3@unibo.it
CURRENT POSITION	Post Doc researcher Centre for studies and research in Cognitive Neuroscience (CsrNC), Università di Bologna.

EDUCATION AND TRAINING:

OCTOBER 2023- CURRENT	Post Doc researcher, Centre for studies and research in Cognitive Neuroscience (CsrNC), Università di Bologna.
JANUARY 2022 – OCTOBER 2023	Research Fellow, Precision Neuroscience and Neuromodulation Program, Gordon Center for Medical Imaging, Massachusetts General Hospital, Harvard Medical School.
NOVEMBER 2019- JANUARY 2023	Ph.D. in Cognitive Neuroscience at the University of Bologna, cum Laude.
JULY 2018 - JULY 2019	Research assistant at the Centre for studies and research in Cognitive Neuroscience (CsrNC).
JULY 2018	Master's Degree in Neuroscience and Neuropsychological rehabilitation, University of Bologna, Cum Laude.
JULY 2016	Degree in Psychology, University of Bologna, Cum Laude.
2015	PSYC S-1014 - The Psychology of Trauma and Post-traumatic Stress Disorder, Harvard Summer School (Cambridge, MA), A+.
2013	High School Diploma, Liceo Linguistico "A.F. Formiggini" Sassuolo, Italy, 100/100.

RESEARCH INTERESTS:

Neuropsychology, neurophysiology, aging brain, interoception, cortical connectivity and plasticity, cognitive neuroscience, social and affective neuroscience, emotion - cognition interaction, neurological deficits in all these processes, their relation to normal functioning.

PUBLICATIONS

1. Chiappini E, Borgomaneri S, Marangon M, Turrini S, Romei V, Avenanti A. Driving associative plasticity in premotor-motor connections through a novel paired associative stimulation based on long-latency cortico-cortical interactions. *Brain Stimulation* 13(5), 1461-1463, 2020.

2. Turrini, S., Fiori, F., Chiappini, E., Santarnecchi, E., Romei, V., & Avenanti, A. Gradual enhancement of corticomotor excitability during cortico-cortical paired associative stimulation. *Scientific reports*, 12(1), 1-8, 2022.
3. Vicario CM, Turrini S, Lucifora C, Culicetto L, Ferraioli F, Falzone A, Nitsche MA, Avenanti A. When defeat leaves a bad taste in the mouth: Modulation of tongue corticobulbar output during monetary loss in a gambling task. *Brain Stimul.* 2022 Oct 31;15(6):1448-1450. doi: 10.1016/j.brs.2022.10.010. Epub ahead of print. PMID: 36328342.
4. Turrini, S., Fiori, F., Chiappini, E., Lucero, B., Santarnecchi, E., & Avenanti, A. (2023). Cortico-cortical paired associative stimulation (ccPAS) over premotor-motor areas affects local circuitries in the human motor cortex via Hebbian plasticity. *NeuroImage*, 271, 120027.
5. Turrini, S., Bevacqua, N., Cataneo, A., Chiappini, E., Fiori, F., Candidi, M., & Avenanti, A. (2023). Transcranial cortico-cortical paired associative stimulation (ccPAS) over ventral premotor-motor pathways enhances action performance and corticomotor excitability in young adults more than in elderly adults. *Frontiers in Aging Neuroscience*, 15.
6. Turrini, S., Wong, B., Eldaief, M., Press, D., Sinclair, D. A., Koch, G., ... & Santarnecchi, E. (2023). The multifactorial nature of healthy brain ageing: brain changes, functional decline and protective factors. *Ageing Research Reviews*, 101939.
7. Turrini, S., Bevacqua, N., Cataneo, A., Chiappini, E., Fiori, F., Battaglia, S., ... & Avenanti, A. (2023). Neurophysiological Markers of Premotor–Motor Network Plasticity Predict Motor Performance in Young and Older Adults. *Biomedicines*, 11(5), 1464.
8. Turrini, S., & Avenanti, A. (2023). Understanding the sources of cortico-cortical paired associative stimulation (ccPAS) variability: Unraveling target-specific and state-dependent influences. *Clinical neurophysiology: official journal of the International Federation of Clinical Neurophysiology*, S1388-2457.
9. Chiappini E, Turrini S, Zanon M, Marangon M, Borgomaneri S, Avenanti A. Driving Hebbian plasticity over ventral premotor-motor projections transiently enhances motor resonance. In press.
10. Chiappini E, Turrini S, Fiori F, Benassi M, Tessari A, di Pellegrino G, Avenanti A. You are as old as the connectivity you keep: distinct neurophysiological mechanisms underlying age-related changes in hand dexterity and strength. In Press.

Conference Presentations

Conference poster – Turrini S., Fiori F., Romei V., Avenanti A. Stay tuned: driving plastic changes in visuo-motor chains through function tuning paired associative stimulation over premotor-motor networks. 2nd Annual Transcranial Brain Stimulation in Cognitive Neuroscience Workshop, CIMeC University of Trento. December 3rd-4th 2020.

Conference poster - Turrini S., Fiori F., Romei V., Avenanti A. Plasticity induction in visuo-motor chains through state-dependent cortico-cortical paired associative stimulation (ccPAS) over premotor-motor networks. XXIX SIPF National Congress - "Beyond the lockdown of the brain", Palermo, September 30th – October 2nd 2021.

Conference poster: Turrini S, Bevacqua N, Cataneo A, Avenanti A. To stay or to go? Paired associative stimulation highlights state dependent causal interactions from right IFG to left M1 during a Go/NoGo task, Udine, September 15th-17th2022.

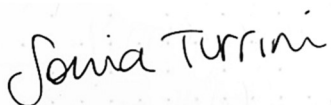
Conference poster: Battaglia S, Turrini S, Borgomaneri S, Tamietto M, Avenanti A. Driving associative plasticity over occipito-parietal and temporo-occipital networks improves recognition of emotional faces, Udine, September 15th-17th 2022.

Symposium: “Neurophysiological, neuroimaging and kinematic evidence of motor behavior invariants across humans, monkeys and plants”. XXIX Congresso Associazione Italiana di Psicologia - Sezione Sperimentale, Lucca, September 18th-20th 2023.

Conference poster: Turrini S, Chiappini E, Fiori F, Bevacqua N, Cataneo A, Romei V, Avenanti A. Elucidating the functional relevance of premotor-motor connectivity and plasticity through dual-coil TMS and cortico-cortical paired associative stimulation in young and elderly healthy adults. XXXI SIPF National Congress - "Past, Present and Future Brains", Siena, November 8th –11th 2023.

Date: November 30th, 2023

Sonia Turrini

A handwritten signature in black ink that reads "Sonia Turrini". The signature is written in a cursive, flowing style.