LUCA BOCCACCI

Cognitive and Action Neuroscience PhD Student

CONTACTS

LANGUAGE

- English (B2)
- Italian (native)

EXPERTISE

- Neuropsychology
- Cognitive-behavioural psychology
- Adult and elderly people
- Frailty
- Neurologic disorders

EDUCATION

LUMSA University

Master's Degree Psychological Sciences 2016-2019

University of Rome "La Sapienza"

Bachelor's Degree Cognitive Neuroscience and Psychological Rehabilitation Master Degree 2019-2021

Università Cattolica del Sacro Cuore

Master in Organization and Management of Companies and Healthcare Services 2021-2022

University of Rome "Foro Italico"

Cognitive and Action Neuroscience PhD Student 2023 - to date

PROFESSIONAL EXPERIENCE

- Post-graduated Intership in Cognitive and Action Neuroscience Laboratory University of Rome "Foro Italico" 2022-2023
- Psychologyst Integrated Football Academy AS Roma & Roma Cares 2023-2024
- Graduate Seminar: 03/04/2024, 02/12/2024, 02/04/2025 - Entitled: Cognitive motor dual task training (CMDT)
- Research collaborator: occasional work performance assignment of an individual nature for carrying out planning, monitoring, data collection and analysis activities in the context of dual-task cognitive-motor training as part of the PRO-BEN LAZIO1 project, title "Wellbeing and Assistance for Valuable Education (WAVE)" 2025-2025

SCIENTIFIC PUBLICATIONS

- Lucia, S., Bianco, V., Boccacci, L., & Di Russo, F. (2021). Effects of a cognitive-motor training on anticipatory brain functions and sport performance in semi-elite basketball players. Brain Sciences, 12(1), 68.

- Lucia, S., Forte, R., Boccacci, L., Grimandi, L., Bittner, M., Aydin, M., ... & Di Russo, F. (2024). A Nonpharmacologic Treatment for Anxiety in Older Adults Based on Cognitive-Motor Training With Response-Generated Feedback. The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences, 79(2), gbad170.

- Lucia, S., Forte, R., Boccacci, L., Bittner, M., & Di Russo, F. (2022). Benefits of a cognitive-motor dual-task intervention on anxiety and depression, and on cognitive functions and functional fitness in elderly: A pilot study.

- Di Bello, B., Panacci, C., Montesano, S., Costanzo, R., Boccacci, L., Aydin, M., ... & Pitzalis, S. (2025). Effects of Walking on Anticipatory Brain Processing During a Concurrent Cognitive Task. Psychophysiology, 62(5), e70063.

- Subitted: Boccacci, L., Scalia, M., Borzuola, R., Camomilla, V., Fossati, C., Galli G., Macaluso A., Pigozzi F., Pitzalis S., Zelli A., Di Russo F. (2025). Impairment in anticipatory cognitive brain processing in frail older adults

- Subitted: Aydin M., Boccacci, L., Lucia, S., Di Bello, B., Casella, A., Forte, R., & Di Russo, F. (2025). Impact of cognitive-motor dual-task training on predictive brain functions and functional performance of older adults: a randomized controlled study.

SCIENTIFIC CONGRESSES

- Poster in XXXII National Congress SIPF (Psycophysiology and Cognitive Neuroscience Italian Society) 2024. A cognitive-motor training protocol as treatment for anxiety in older adults, Luca Boccacci, Stefania Lucia, Roberta Forte, Merve Aydin, & Francesco Di Russo

- Poster XXXIII National Congress SIPF (Psycophysiology and Cognitive Neuroscience Italian Society) 2025, Predictive cognitive brain processing of frail older adults, Luca Boccacci, Martina Scalia, Riccardo Borzuola, Valentina Camomilla, Chiara Fossati, Federica Galli, Andrea Macaluso, Fabio Pigozzi, Sabrina Pitzalis, Arnaldo Zelli, Francesco Di Russo

- Poster XXXIII National Congress SIPF (Italian Psychology Association) 2025 , Frail elderly people' impaired anticipatory cognitive brain processing Luca Boccacci, Martina Scalia, Riccardo Borzuola, Valentina Camomilla, Chiara Fossati, Federica Galli, Andrea Macaluso, Fabio Pigozzi, Sabrina Pitzalis, Arnaldo Zelli, Francesco Di Russo

PROFESSIONAL SKILLS

- In-depth analysis of scientific literature on dual-task cognitive-motor training.
- Study and in-depth analysis of the use of the Witty·SEM Microgate cognitive-motor training system.
- Improvement of electroencephalography techniques and event-related potentials.
- Acquisition of techniques for analysing electroencephalographic, behavioural, psychological and cognitive data.
- Acquisition and understanding of the use of STATISTICA, Brain Analyzer and Corel Draw software.
- Improvement in teamwork skills, goal-oriented work, multitasking
- Development and implementation of non-pharmacological treatments based on innovative interdisciplinary cognitive-motor interventions to counter mental disorders in adults and elderly people