

Curriculum Vitae

ALESSANDRO BOTTA

EDUCAZIONE

03/12/2015 **Laurea in Fisioterapia**

Voto finale: 110/110 e Lode

Università degli studi di Roma Tor Vergata, Facoltà di medicina e
chirurgia
Roma

07/07/2018 **Laurea Magistrale (Master of Science) in Rehabilitation Sciences
and Physiotherapy (120 ECTS)**

Voto finale: Cum Laude

Curriculum: Scienze Riabilitative e Fisioterapia dei Disturbi Neurologici
Katholieke Universiteit Leuven (Università Cattolica di Leuven),
Leuven, Belgio

26/10/2022 **Dottorato di Ricerca in Neuroscienze (curriculum: Scienze delle
attività motorie e sportive)**

Supervisor: **Prof. Laura Avanzino** (Dipartimento di Medicina
Sperimentale)
Università degli studi di Genova,
Genova

01/03/2022 **Post-Doctoral Research Fellowship (Progetto 5x1000 del Ministero
della Salute)**

Progetto: **Cognitive-emotional-sensorimotor integration in
Parkinson's Disease and Major Depression**
IRCCS Policlinico San Martino
Genova

01/06/2023

(In corso) **Post-Doctoral Research Fellowship (EU Joint Programme – Neurodegenerative disease research)**

Progetto: **Unraveling the Neural mechanisms underlying compensation strategies for gait impairments in Parkinson's Disease: a transnational, multi-modal approach (UNITE-PD)**

IRCCS Policlinico San Martino

Genova

PUBBLICAZIONI

- **Botta A.**, Lagravinese, G., Bove, M., Avenanti, A., & Avanzino, L. (2021). Modulation of Response Times During Processing of Emotional Body Language. *Frontiers in Psychology*, 12 (February), 1–11. <https://doi.org/10.3389/fpsyg.2021.616995>
- **Botta A.**, Lagravinese, G., Bove, M., Pelosin, E., Bonassi, G., Avenanti, A., & Avanzino, L. (2022). Sensorimotor inhibition during emotional processing. *Scientific Reports*, 12(1), 6998. <https://doi.org/10.1038/s41598-022-10981-8>
- **Botta A.**, Zhao, M., Samogin, J., Pelosin, E., Bonassi, G., Lagravinese, G., Mantini D., Avenanti A., Avanzino, L. (2023). Early modulations of neural oscillations during the processing of emotional body language. *Psychophysiology*. <https://doi.org/10.1111/psyp.14436>
- **Botta A.**, Pelosin, E., Lagravinese, G., Marchese R., Di Biasio F., Bonassi G., Terranova S., Ravizzotti E., Putzolu M., Mezzarobba S., Cosentino C., Avenanti, A., & Avanzino, L. (2024 – *under revision*). Modulation of response times in early-stage Parkinson's disease during emotional processing of embodied and non-embodied stimuli. *Scientific Reports*
- Rens, G., van Polanen, V., **Botta A.**, Gann, M. A., de Xivry, J. J. O., & Davare, M. (2020). Sensorimotor expectations bias motor resonance during observation of object lifting: The causal role of pSTS. *Journal of Neuroscience*, 40(20). <https://doi.org/10.1523/JNEUROSCI.2672-19.2020>
- Bommarito, G., Putzolu, M., Avanzino, L., Cosentino, C., **Botta A.**, Marchese, R., Inglese, M., & Pelosin, E. (2020). Functional Correlates of Action Observation of Gait in Patients with Parkinson's Disease. *Neural Plasticity*, 2020., <https://doi.org/10.1155/2020/8869201>
- Bonassi G., Lagravinese G, Putzolu M., **Botta A.**, Bove M., Pelosin E., Avanzino L. Transcranial direct current stimulation alters sensorimotor modulation during cognitive representation of movement. *Front. Hum. Neurosci.*, 06 October 2022 *Sec. Brain Imaging and Stimulation*; Volume 16 - 2022 | <https://doi.org/10.3389/fnhum.2022.862013>
- Lagravinese G., Bisio A., Bove M., **Botta A.**, Bonassi G., Marchese R., Ruggeri P., Pelosin E., Avanzino L. Motor resonance flexibility to emotion-enriched context in Parkinson's disease patients. *Behavioral Neurology*, 2023, <https://doi.org/10.1155/2022/6487419>
- Cosentino C, Putzolu M, Mezzarobba S, Cecchella M, Innocenti T, Bonassi G, **Botta A.**, Lagravinese G, Avanzino L, Pelosin E, One cue does not fit all: A systematic

review with meta-analysis of the effectiveness of cueing on freezing of gait in Parkinson's disease, *Neuroscience & Biobehavioral Reviews*, Volume 150, 2023, 105189, ISSN 0149-7634, <https://doi.org/10.1016/j.neubiorev.2023.105189>.

- Terranova, S., **Botta, A.**, Putzolu, M. et al. Cerebellar Direct Current Stimulation Reveals the Causal Role of the Cerebellum in Temporal Prediction. *Cerebellum* (2023). <https://doi.org/10.1007/s12311-023-01649-8>
- Bonassi G, Lagravinese G, Bove M, Bisio A, **Botta A.**, Putzolu M, Cosentino C, Mezzarobba S, Pelosin E, Avanzino L, How Music Moves Us: Music-induced Emotion Influences Motor Learning, *Neuroscience*, Volume 526, 2023, Pages 246-255, ISSN 0306-4522, <https://doi.org/10.1016/j.neuroscience.2023.06.023>.
- Crisafulli O, Ravizzotti E, Mezzarobba S, Cosentino C, Bonassi G, **Botta A.**, Abbruzzese G, Marchese R, Avanzino L, Pelosin E. A gait-based paradigm to investigate central body representation in cervical dystonia patients. *Neurol Sci.* 2023 Apr;44(4):1311-1318. doi: 10.1007/s10072-022-06548-0. Epub 2022 Dec 19. PMID: 36534193.
- Putzolu M, Manzini V, Gambaro M, Cosentino C, Bonassi G, **Botta A.**, Ravizzotti E, Avanzino L, Pelosin E, Mezzarobba S. Home-based exercise training by using a smartphone app in patients with Parkinson's disease: a feasibility study. *Front Neurol.* 2023 Jun 28;14:1205386. doi: 10.3389/fneur.2023.1205386. PMID: 37448748; PMCID: PMC10338039.

ESPERIENZA DIDATTICA

Professore a contratto per il corso: “Laboratorio di Riabilitazione Neurologica”

A.A.: 2022-2023/2023-2024

Corso di laurea in Fisioterapia

Unicamillus, Roma

Tutor didattico: “Master di primo livello in Neuroscienze e Fisioterapia Neurologica”

2021

Università degli studi di Genova, Genova

Tutor didattico: “Fisiologia Umana”

2021

Corso di laurea in Ingegneria Biomedica

Università degli studi di Genova, Genova

COMPETENZE LINGUISTICHE

Madrelingua: Italiano

Other Language(s)	UNDERSTANDING	SPEAKING	WRITING
	Listening /Reading	Spoken Interaction / Spoken production	
ENGLISH	C1 / C1	C1	C1
	IELTS CERTIFICATION: OVERALL SCORE 7.5		
FRENCH	C1 / C1	C1	B1
DUTCH	A2 / A2	A2	A2