ENRICO VESCOVO

EDUCATION

Oct 2015 – Jul 2021, Ferrara (IT)

Laurea Magistrale in Medicina e Chirurgia (Bachelor in Medicine and Surgery)

- "LM-41 - Classe delle lauree magistrali in Medicina e chirurgia: laurea magistrale abilitante all'esercizio della professione di Medico chirurgo di cui all'art. 102, comma 1, del decreto legge 17 marzo 2020, n. 18 e D.M. 2 aprile 2020, n. 8."
- Graduated on July 13th, 2021; Grade: 110/110 magna cum laude
- Thesis: The Action Selection Process: linking behavior and neurophysiology. Supervisors: prof. Alessandro D'Ausilio; dott. Pasquale Cardellicchio

Oct 2021 – Oct 2024, Ferrara (IT)

Dottorato in Neuroscienze Traslazionali e Neurotecnologie (PhD in Translationals Neurosciences and Neurotechnologies)

- Center Coordinator: Prof. Luciano Fadiga - Department of Neuroscience and Rehabilitation, Section of Human Physiology
- Project Supervisor: Prof. Alessandro D'Ausilio- Department of Neuroscience and Rehabilitation, Section of Human Physiology
- Affiliations: Istituto Italiano di Tecnologia (IIT; Italian Institute of Technology)
- Thesis: Interpersonal motor coordination: neurophysiological bases and individual idiosyncrasies

Nov 2024 – Jun 2025, Ferrara (IT)

Research Fellow, Istituto Italiano di Tecnologia (IIT; Italian Institute of Technology)

- Center Coordinator: Prof. Luciano Fadiga - Department of Neuroscience and Rehabilitation, Section of Human Physiology
- Project Supervisor: Prof. Alessandro D'Ausilio- Department of Neuroscience and Rehabilitation, Section of Human Physiology

INTERNSHIPS

Oct 2019 – Jan 2020, Chongqing (CN); **Chongqing Medical University**

- Internship attended at: Thoracic Surgery Dept., Gastrointestinal Surgery Dept., Pediatric Neurology Dept., Anesthesia Dept., Gynecology and Obstetrics Dept.

Oct 2017 – Jul 2021, Ferrara (IT); **University of Ferrara, Section of Human Physiology**

- Project Supervisors: prof. Alessandro D'Ausilio; prof. Luciano Fadiga

SKILLS AND WORK EXPERIENCE

DATA COLLECTION/ANALYSIS

- *EMG*: surface EMG recording and data analysis
- *Neuronavigation*: digitized probabilistic head and brain model generation; use of both MNI space and Talairach atlas for cortical areas identification; regional cortical targeting for TMS stimulation (SofTaxic Optic neuronavigation system)
- *TMS*: single-pulse stimulation of primary motor cortex; repetitive stimulation protocols (i.e., iTBS, cTBS); data collection and analysis of motor evoked potentials, cortical silent period, short intracortical inhibition and long intracortical inhibition
- *EEG*: 10-20 EEG system montage; EEG electrodes impedance optimization; EEG data acquisition (ActiCHamp Plus; Brain Products GmbH) and analysis
- *tES*: application of tTIS, tDCS, tACS and tRNS (Starstim systems, Neuroelectrics; Digitimer DS5, Digitimer North America) stimulation protocols; data collection and analysis
- *Motion Capture*: collection and analysis of kinematics data (Vicon Motion Systems)

PROGRAMMING

- Matlab: advanced programming skills

CO-PARTICIPATION IN SCIENTIFIC PUBLICATIONS DRAFTING

SCIENTIFIC PUBLICATIONS

Fields of Research:

- Motor Control
- Motor Inhibition
- Joint Action
- Movement Variability
- Cognitive Neuroscience
- Transcranial Magnetic Stimulation
- Transcranial Electric Stimulation

WORKSHOPS/CONFERENCES

- Dolfini E., Cardellicchio P., Vescovo E., Fadiga L., D'Ausilio A. "Different processes of concurrent motor inhibition are active during joint action: Evidence from TMS study" Joint Action Meeting (JAM VIII), Genova, 2019.
- Cardellicchio P., Dolfini E., Vescovo E., Fadiga L., D'Ausilio A. "Different processes of concurrent motor inhibition are active during joint action: Evidence from TMS study" XXVII National Conference of the Italian Society of Psychophysiology, Bologna, 2019.
- Cardellicchio P., Dolfini E., Vescovo E., Fadiga L., D'Ausilio A. "Different processes of concurrent motor inhibition are active during joint action: Evidence from TMS study" Joint meeting of the European Physiological Societies and the Italian Physiological Society vol. 227, pp. 93, Ferrara, 2019.

- Cardellicchio P., Dolfini E., Vescovo E., Fadiga L., D'Ausilio A. "Different processes of Concurrent Motor Inhibition are active during Joint Action: Evidence from TMS study" Joint Meeting of the Federation of European Physiological Societies (FEPS) and the Italian Physiological Society (SIF) Bologna (Italy), September 10th–13th 2019.
- Vescovo E., Cardellicchio, P., D'Ausilio A. "Join the action: top-down and bottom up information modulate different neurophysiological indexes" XXX Congresso Nazionale SIPF: The Developing Brain, Udine (Italy), September 15th–17th 2022.
- Vescovo E., Cardellicchio, P., D'Ausilio A. "Join the action: top-down and bottom up information modulate different neurophysiological indexes" Transcranial Brain Stimulation in Cognitive Neuroscience, Rovereto (Italy), December 2nd-3rd 2022.
- Vescovo E., Cardellicchio, P., D'Ausilio A. "Join the action: top-down and bottom up information modulate different neurophysiological indexes" Joint Action Meeting (JAM IX), Budapest (Hungary), July 10th-12th 2023.
- Vescovo E., Cardellicchio, P., Tomassini A., Fadiga L., D'Ausilio A. "Excitatory/inhibitory modulations reflect the simultaneous processing of top down and bottom up information during Joint Action coordination." Neurophysiological Bases of Human Movement, London (United Kingdom), December 12th-13th 2023.

PEER REVIEWED PUBLICATIONS

- Abubshait, A., Kompatsiari, K., Cardellicchio, P., Vescovo, E., De Tommaso, D., Fadiga, L., D'Ausilio, A., & Wykowska, A. (2023). Modulatory Effects of Communicative Gaze on Attentional Orienting Are Driven by Dorsomedial Prefrontal Cortex but Not Right Temporoparietal Junction. Journal of cognitive neuroscience, 35(10), 1670–1680. https://doi.org/10.1162/jocn_a_02032
- Vescovo, E., Cardellicchio, P., Tomassini, A., Fadiga, L., & D'Ausilio, A. (2024). Excitatory/inhibitory motor balance reflects individual differences during joint action coordination. The European journal of neuroscience, 59(12), 3403–3421. https://doi.org/10.1111/ejn.16365
- Vescovo, E., & D'Ausilio, A. (2024). The too many facets of motor output variability. Comment on "From neural noise to co-adaptability: Rethinking the multifaceted architecture of motor variability" by Casartelli, L., Maronati, C., & Cavallo, A. Physics of life reviews, 50, 1–3. https://doi.org/10.1016/j.plrev.2024.04.009

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Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università degli Studi di Ferrara.

Ferrara, 09/06/2025