

VERONICA MONTANI

Cognitive neuroscientist

My primary research interest concerns the neural computations underlying predictive sensorimotor control: the dynamic selection of task-relevant information, their transformation into motor commands, and experience-dependent modifications.

CURRENT POSITION

2020-
Today

- **Postdoctoral researcher**

Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona.

 Verona, Italy



EDUCATION

2012

- **PhD in Cognitive Science**

Doctoral School in Psychology, University of Padua. Thesis: 'A new videogame for the rehabilitation of attention and executive functions following traumatic brain injury'. Adviser: Marco Zorzi

 Padua, Italy

2008

- **MSC in General and Experimental Psychology**

Neuropsychological Course (grade: 109/110). School of Psychology, University of Padua. Thesis: 'The role of spatial attention in reading'. Adviser: Marco Zorzi.

 Padua, Italy

GRANTS

2014-
2016

- **Investigating the orthographic code with frequency-tagged neuroelectric responses**

Labex BLRI, University of Aix-Marseille  Marseille, France

2009-
2011

- **Riabilitazione e terapia dei disturbi cognitivi causati da traumi cranici concussionali**

European Social Fund 2007-2013 (project n. 2105/101/2/722/2009).

 Padua, Italy

RESEARCH AND CLINICAL EXPERIENCE

2012
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2013

- **Collaboration labor contracts**

Department of General Psychology, University of Padua. Conducted research on the mechanisms of the attention system, with a focus on the role of visuo-spatial attention in visual word recognition, and the rehabilitation of executive functions following traumatic brain injury.

 Padua, Italy

CONTACT

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 [ResearchGate](#)

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SKILLS

 Expert in statistical modeling and analysis with strong theoretical foundations

 Proficient in processing multimodal physiological signals (EEG, EMG, eye-tracking) and kinematic data.

 Experienced in EEG data acquisition, Vicon-Nexus motion capture system, designing and conducting TMS experiments.

 Advanced proficiency: R (Statistical Computing), MATLAB, Python, Visual Basic Application, LaTeX.

 Experienced with experiment software: Psychtoolbox, OpenSesame, E-Prime.

2011

- **Visiting PhD student**
MRC-Cognition and Brain Sciences Unit. Supervisors: Dr.Tom Manly.
Assisted in validating a novel ecological paradigm for assessing executive functions.
📍 Cambridge, UK

2010

- **Clinical internship**
Neuropsychology Department, IRCCS San Camillo Foundation.
Observed and assisted in diagnostic evaluations and the development of individualized cognitive rehabilitation programs for patients with neurological conditions (e.g., stroke, TBI, dementia)
📍 Venice-Lido, Italy

2010

- **Clinical internship**
Rehabilitation Centre of Conselve, Padova. Assisted and administered standardized neglect assessments to evaluate visuospatial attention deficits in stroke patients for clinical research studies.
📍 Conselve, Italy

2010

- **Research internship**
Department of General Psychology, University of Padua. Conducted research on the mechanisms of the attention system, with a focus on the role of visuo-spatial attention in visual word recognition.
Implemented diverse behavioral paradigms and analytical techniques, including eye-tracking, to investigate attentional processes.
📍 Padua, Italy

TEACHING EXPERIENCE

2024-2025

- **Motor Learning**
Teaching for the course Analysis of Movement, Motor Control, and Motor Learning, Bachelor's degree in Sport and Exercise Science, University of Verona.
📍 Verona, Italy

2020-2021

- **Human Planning Movement and Control**
Tutoring for the course Human Planning Movement and Control, Master's degree in Preventive and Adaptive Exercise Science, University of Verona.
📍 Verona, Italy

LANGUAGES

Italian: Mother tongue
English: Advanced
French: Conversational

OTHER QUALIFICATIONS

Certified 200hr Yoga Medicine® teacher