

# 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

|  
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

✉ [veronica.montani@univr.it](mailto:veronica.montani@univr.it)

📄 [ResearchGate](#)

☎ +39 3338714750

## 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