

Curriculum Vitae Europass

Personal Details



RICCARDO BERTACCINI

📍 Via Prati, 1, 47014, Meldola (FC), Italia

☎ (+39) 3381480097

✉ riccardo.bertaccini2@studio.unibo.it ricky912008@gmail.com

🎂 Birthday: 14/01/1991

🇮🇹 Nationality: Italian

Work Experiences

Nov 2021 – Nov 2022

Research Internship – Center of Study and Research in Cognitive Neuroscience (CNC) – Department of Psychology - University of Bologna (<https://vincenzoromei.com/consciousness-team/>).

- **Internship Activity:** research assistant investigating neurooscillatory correlates of conscious perception, by means of electroencephalographic recording/analysis techniques combined with transcranial magnetic stimulation.

Education

Nov 2022 – present

Joint PhD program in Cognitive Neuroscience - Scholarship funded by the Next Generation EU (NRRP plan ex M.D. 352/2022): University of Bologna, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli

- **Project:** *An integrative neurophysiological approach toward the early detection of psychiatric disorders*

The project aims at developing methods to identify individuals at risks of schizophrenia. For this purpose, the research will involve a population of healthy individuals and schizophrenic patients. Cognitive and neurophysiological alterations will be investigated by focusing on EEG oscillatory activity and its causal manipulation via TMS, as well as the study of TMS evoked potentials, obtained through TMS-EEG coregistration, both in visual and multisensory tasks.

Supervisors: Prof. Vincenzo Romei, Dott. Marta Bortoletto; Prof. Alessio Avenanti

Sept 2019 – Nov 2021

Master's Degree in Neuroscience and Neuropsychological Rehabilitation - University of Bologna – 110/110 cum Laude.

- **Master thesis:** "Boosting working memory capacity by strengthening long-range alpha-band functional connectivity over the frontoparietal pathway".

Supervisor: Prof. Vincenzo Romei.

Sept 2016 – Jul 2019

Bachelor's degree in Psychology – University of Bologna - 110/110 cum Laude.

- **Bachelor thesis:** "Nasal, as compared to oral respiration, differently affects pupillary dynamics: a pilot study".

Supervisor: Prof. Maria Grazia Benassi.

- Aug 2018 – Dec 2018: Erasmus program, **research internship - Karolinska Institutet** (Stockholm, SE) - Department of Clinical Neuroscience.

Supervisors: Prof. Johan Lundström, Artin Arshamian

Sept 2010 – Jun 2013

University of Bologna – completed 48 cfu toward a BA in Energy Engineering:

- General Physics - Fundamentals of Chemistry - Fundamentals of Computer Science
- Thermodynamics, Fluid Mechanics and Heat Transfer - Machines
- Strength of Materials

Publications

Bertaccini R, Ellena G, Macedo-Pascual J, Carusi F, Trajkovic J, Poch C, Romei V. Parietal Alpha Oscillatory Peak Frequency Mediates the Effect of Practice on Visuospatial Working Memory Performance. *Vision*. 2022; 6(2):30. <https://doi.org/10.3390/vision6020030>

Ippolito G, Bertaccini R, Tarasi L, Di Gregorio F, Trajkovic J, Battaglia S, Romei V. The Role of Alpha Oscillations among the Main Neuropsychiatric Disorders in the Adult and Developing Human Brain: Evidence from the Last 10 Years of Research. *Biomedicines*. 2022; 10(12):3189. <https://doi.org/10.3390/biomedicines10123189>

Skills / Competencies

Language	Mother tongue: italian Other languages: english (C1)* *According to Common European Framework of Reference for Languages, CEFR (IELTS Certificate, March 2018).
Research Methods	Software for statistical analysis: - SPSS - Jamovi - Jasp - Microsoft Office Package - G*Power Software and Programming Skills for data acquisition: - BrainVision – professional Recorder / professional Analyzer - Matlab (Psychtoolbox package) Tools and instrumentation: - 64-channel active/passive EEG cap (actiCap, Brain Products GmbH) - The Magstim® BiStim2 - The Magstim® Rapid2 Family - D70 Alpha Flat coil - Alpha B.I. Coil Range Software and Programming Skills for data analysis: - Python (basics) - Matlab (EEGLAB package, basics)
Soft Skills	Very good team-working and interpersonal skills, effective time-management and problem-solving competencies, strong work ethic and communication abilities, good leadership and creativity attitudes.
Attended Seminars	Corso ECM Residenziale. Rimini, Centro Congressi SGR (2/04/22). - <i>“L’approccio clinico integrato e la rTMS in ambito neurologico e psichiatrico”</i> . Among the speakers: Antonello Bonci (Global Institute on Addiction, Miami, USA) Alessio Avenanti (University of Bologna, Italy) Francesco Di Lorenzo (IRCCS Fondazione S. Lucia, Rome, Italy) CIMeC Colloquium. UniTn (9/12/21) - <i>“Rhythms for Cognition: Communication-through-Coherence”</i> . Speaker: Pascal Fries (Ernst Strüngmann Institute for Neuroscience) 29th Kanizsa Lecture. UniPd (22/8/21) - <i>“The irreducibility of vision: gestalt, crowding and the fundamentals of vision”</i> . Speaker: Professor Michael Herzog (École Polytechnique Fédérale de Lausanne). Open Statistics: Methods and Thinking in Psychological Research. Unibo (30/09/19). - <i>“Reproducibility and Open Science”</i> ; <i>“Updates on Bayesian vs Fisherian Inference”</i> ; <i>“Spreading Statistical Thinking”</i> . Among the speakers: Marco Perugini (University of Milano-Bicocca, Italy); Eric-Jan Wagenmakers (University of Amsterdam, Netherlands) Herbert Hoijtink (University of Utrecht, Netherlands) Robert Calin-Jageman (Dominican University, USA) A Festschrift in honor of Elisabetta Làdavas. Unibo (11-12/04/19) - <i>“Perceptual, Cognitive and Affective components of Space representation”</i> . Among the Speakers: Morris Moscovitch (University of Toronto) Patrick Haggard (University College London) Michael Gazzaniga (University of California, Santa Barbara) Tim Shallice (University College London) Lying with the brain and the body. Unibo (10/04/19) - <i>“Neuroscience of lie and deception”</i> . Speaker: Salvatore Maria Aglioti (Università La Sapienza, Roma)
Areas of Interest	Cognitive Neuroscience, Experimental Psychology, Brain Rhythms, Non-Invasive Brain Stimulation

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D.Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.

Meldola 02/01/2023