



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Biomediche e Cliniche**

Scientist- in - charge: **Prof. Sarasso**

## MADALINA BUCUR

### CURRICULUM VITAE

#### PERSONAL INFORMATION

Surname	BUCUR
Name	MADALINA

#### PRESENT OCCUPATION

Appointment	Structure
POST DOC RESEARCH FELLOWSHIP	Center for Mind/Brain Sciences (CIMEC), UNIVERSITY OF TRENTO

#### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	MASTER'S IN SCIENCE IN CLINICAL, DEVELOPMENTAL PSYCHOLOGY, AND NEUROPSYCHOLOGY	University Milano-Bicocca, Italy	2015
Specialization	CERTIFIED PSYCHOTHERAPIST	European School of Hypnotic Psychotherapy	2022
PhD	DOCTORATE IN COGNITIVE AND BRAIN SCIENCES	University of Trento, Italy	2022

#### REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
2017	Psychologists Association of Lombardy	MILAN, ITALY
2023	Data Manager e Coordinatori di Ricerca Clinica	ITALY



## FOREIGN LANGUAGES

Languages	level of knowledge
Romanian	Native speaker
Italian	C2
English	C1

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2022	Young Investigator Travel Fellowships, The 60th Annual Meeting of the Academy of Aphasia (Philadelphia, USA)

## TRAINING OR RESEARCH ACTIVITY

<p><b>Post-Doctoral Fellow - Clinical Research (P.I. Costanza Papagno, MD, PhD)</b> <span style="float: right;"><b>June 2022 - December 2023</b></span></p> <p><b>TYPE OF CONTRACT:</b> “ASSEGNO DI RICERCA” from 15<sup>th</sup> of June 2022 to 14<sup>th</sup> of December 2023</p> <p><b>CENTER FOR NEUROCOGNITIVE REHABILITATION (CERIN)</b> <span style="float: right;"><b>Rovereto (TN), Italy</b></span></p> <p>“Leveraging the Neural Circuits of Hyper Memory to Ameliorate Memory Dysfunction in Prodromal Alzheimer’s Disease;” funded by the Italian Ministry of Health</p> <p>My current research focuses on NIBS and memory in patients with prodromal Alzheimer’s disease</p> <ul style="list-style-type: none"> <li>• Participate in writing the project and experimental design</li> <li>• Submit of the research project to the ethics committee</li> <li>• Register the project on clinicaltrials.gov</li> <li>• Recruit and manage volunteers: rTMS / TMS-EEG testing and data collection</li> <li>• Data pre-processing and statistical analysis</li> <li>• Developing/maintaining collaborative communication with the patients, caregivers, and other professional figures, e.g., MDs, neuropsychologists, technical staff, etc.</li> <li>• Investigate protocol deviations</li> <li>• Master student training and supervision</li> <li>• Ensure the safety of the participants, good trial practice and ethics</li> </ul>
<p><b>Ph.D. Candidate - Clinical Research (P.I. Costanza Papagno, MD, PhD)</b> <span style="float: right;"><b>November 2017 - May 2022</b></span></p> <p><b>TYPE OF CONTRACT:</b> “BORSA DI DOTTORATO” from 1<sup>st</sup> of November 2017 to 31<sup>st</sup> of March 2022</p> <p><b>CENTER FOR MIND/BRAIN SCIENCES (CIMEC), UNIVERSITY OF TRENTO</b> <span style="float: right;"><b>Rovereto (TN), Italy</b></span></p> <p>“Neurophysiological Correlates of Language Recovery after tDCS in Aphasic Patients” ongoing project</p> <p>During my Ph.D. I was involved in multiple projects focused on post-stroke aphasia rehabilitation, post-stroke depression, deep brain stimulation in Parkinson’s disease, and neuroimaging data during language processing.</p> <ul style="list-style-type: none"> <li>• Conducted and published reviews and meta-analyses on aphasia and Parkinson’s disease</li> <li>• Non-invasive transcranial stimulation (TMS-EEG, tDCS) in neurologically healthy subjects (controls) and for cognitive rehabilitation of stroke patients</li> <li>• Construction of the database, analysis, interpretation and results communication</li> </ul>



**Research Training Fellowship for Postgraduate Students (P.I. Davide Crepaldi, PhD) April 2017 - July 2017**

TYPE OF CONTRACT: "BORSA DI STUDIO POST - LAUREA" from 15<sup>th</sup> of April 2017 to 14<sup>th</sup> of July 2017

INTERNATIONAL SCHOOL FOR ADVANCED STUDIES (SISSA)

Trieste, Italy

Recruited, collected behavioral data, and managed disbursements for over 100 participants in the cognitive neuroscience research project "Word Meaning Within and Outside Awareness: How to Make Sense of Words."

**Research Internship (advisors: Nadia Bolognini, PhD & Laura Danelli, PhD)**

**March 2016 - July 2017**

UNIVERSITY OF MILANO-BICOCCA

Milan, Italy

Volunteered for a TMS and a meta-analysis project in Clinical Psychology and Neuroscience with duties including:

- Literature review as well as neuro-imaging studies (PET and fMRI), selection and screening
- Construction of the database, analysis, interpretation and results communication
- rTMS study collaboration for brain stimulation, a PAS protocol

**Post graduate clinically focused internship (advisor: Dr. Filippo Manno)**

**September 2015 - March 2016**

SAN GIACOMO HOSPITAL

Ponte dell'Olio (PC), Italy

- Psychodiagnostic evaluation, psychological counselling and motivational support
- Clinical interviews, psychometric testing administration, scoring and interpretation
- Behavioral assessment and neuropsychological report; group psychoeducational intervention

**Research Internship (Undergraduate Student, P.I. Davide Crepaldi, PhD)**

**November 2014 - July 2015**

UNIVERSITY OF MILANO-BICOCCA

Milan, Italy

- Collaboration to the experimental design
- Experiment advertising: announcement, writing and publication on the university website
- Recruited and tested over 200 participants for 6 experiments and managed the participants' compensation
- Data analysis and interpretation; contributed to the poster and paper

## PROFESSIONAL TRAINING

- Multimodal EEG workshop: Integrating EEG and neuronavigated TMS techniques, Milan-Italy
- Clinical Research Training Course "MISSIONE CRA", ClinOpsHub, Yghea CRO, Mesagne - Italy
- The 7<sup>th</sup> Science Factory: TMS EEG Summer School and Workshop, Department of Neuroscience and Biomedical Engineering Aalto University School of Science, Espoo - Finland
- Lesion Analysis Workshop, University of Tübingen - Germany

## TECHNICAL SKILLS

- Statistical programs: SPSS, R, GingerALE
- Technical softwares: Matlab (basic knowledge), Brain products Brain vision (Recorder), MRICron, Softaxic optic 2.0
- Devices: EEG registration and data analysis, TMS and TES stimulation, TMS-EEG integrated system
- Software: Microsoft Office Pack: Excel, Word, PowerPoint



## PROJECT ACTIVITY

Year	Project
2022	“Leveraging the Neural Circuits of Hyper Memory to Ameliorate Memory Dysfunction in Prodromal Alzheimer’s Disease;” funded by the Italian Ministry of Health
2017	“Neurophysiological Correlates of Language Recovery after tDCS in Aphasic Patients”

## CONGRESSES AND SEMINARS

Date	Title	Place
2022	18th Annual Conference of the Italian Association of Cognitive Sciences	Rovereto, Italy
2022	Transcranial Brain Stimulation in Cognitive Neuroscience Workshop	Rovereto, Italy
2022	The 60th Annual Meeting of the Academy of Aphasia.	Philadelphia, USA
2020	CIMEC Doctoral Student Day	Rovereto, Italy
2019	7th Science Factory: TMS-EEG Summer School and Workshop	Aalto University, School of Science, Finland

## PUBLICATIONS

Articles in reviews
Bucur M, Papagno C. Deep brain stimulation in Parkinson disease: a meta-analysis of the long-term neuropsychological outcomes. <i>Neuropsychology review</i> . 2023 Jun;33(2):307-46. DOI: 10.1007/s11065-022-09540-9
Bucur M, Papagno C. An ALE meta-analytical review of the neural correlates of abstract and concrete words. <i>Scientific reports</i> . 2021 Aug 3;11(1):15727. DOI: 10.1038/s41598-021-94506-9
Bucur M, Papagno C. Are transcranial brain stimulation effects long-lasting in post-stroke aphasia? A comparative systematic review and meta-analysis on naming performance. <i>Neuroscience &amp; Biobehavioral Reviews</i> . 2019 Jul 1;102:264-89. DOI: 10.1016/j.neubiorev.2019.04.019
Bucur M, Papagno C. A systematic review of noninvasive brain stimulation for post-stroke depression. <i>Journal of affective disorders</i> . 2018 Oct 1;238:69-78. DOI: 10.1016/j.jad.2018.05.026
Bottini R, Bucur M, Crepaldi D. The nature of semantic priming by subliminal spatial words: Embodied or disembodied?. <i>Journal of Experimental Psychology: General</i> . 2016 Sep;145(9):1160. DOI: 10.1037/xge0000197

## OTHER INFORMATION

<p><b>MENTORING</b></p> <p>2022 - Present Annina Giuli, master student at University of Trento, Italy (co-supervision)</p> <p>2022 - Present Valentina Maselli, master student at University of Trento, Italy (co-supervision)</p> <p>2020 - 2021 Francesca Pase, master student (250 hours) at CIMEC, University of Trento, Italy (co-supervision)</p>
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#### EXTRA INSTITUTIONAL ACTIVITIES

2023 → Speaker at “Alternanza Scuola-Lavoro” (NIBS and memory in AD)  
2023 → My Lab Presenter at CIMEC LAB FAIR  
2022 → Speaker at “Alternanza Scuola-Lavoro” (NIBS and aphasia cognitive rehabilitation)  
2017-2022 → Ph.D. Students’ Representative 33rd cycle  
2021 → Speaker at the CIMEC Doctoral Student Day  
2020 → Presenter at the CIMEC Brown Bag  
2019-2020 → Representative for the “ CIMEC Ph.D. colloquia”  
2020 → Ambassador for the EuroScience Open Forum, Trieste - Italy  
2018-2019 → Support on the organization for the Doctoral Student Day  
2019 → Poster Presenter at Doctoral Student Day  
2018 → Lab Presenter at CIMEC LAB FAIR  
2018 → Speaker at the Welcome Week for Ph.D. Students of the 34th cycle  
2018 → Ambassador for the EuroScience Open Forum, Toulouse-France  
2017 → Support on the CIMEC XMAS SHOW, part of the baker’s team, sweets for charity  
2017 → Speaker at Open Day at CeRiN (TMS and tDCS presentation)

#### AD-HOC JOURNAL REVIEWING

Stroke and Vascular Neurology, Brain Topography (BTOP), Therapeutic Advances in Chronic Disease, General Hospital Psychiatry, Frontiers in Human Neuroscience, Brain and Language, Brain Communications, Journal of Central Nervous System Disease, Disability and Rehabilitation, Neuromodulation: Technology at the Neural Interface, Restorative Neurology and Neuroscience, Journal of Neuropsychology

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Milano, 01/11/2023