



NADIA BOLOGNINI

BIOGRAPHICAL SKETCH

General Information

Data di nascita: 10-01-1977
Luogo di nascita: Lecco (LC)
Codice Fiscale: BLGNDA77A50E507H
Indirizzo di lavoro: P.zza dell'Ateneo Nuovo 1, Ed.U6, 20126 Milano
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E-mail: nadia.bolognini@unimib.it
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Current positions and employment

Associate Professor of Psychobiology and Physiological Psychology (MPSI-02), Dept. Psychology, University of Milano-Bicocca (since 2016)

Director of the Bachelor degree course in Psychological Sciences and Techniques, University of Milano-Bicocca (since 2020)

Assistant Director, Laboratory of Neuropsychology, IRCCS Istituto Auxologico Italiano (since 2017), <https://moh-it.pure.elsevier.com/en/persons/nadia-bolognini>

Member of the Committee on Admissions (COA) for the PhD Program in Neuroscience, School of Medicine, University of Milano-Bicocca (since 2015)

Member of COA for Advanced Specialization School in Neuropsychology, University of Milano-Bicocca (since 2008)

Education

22/11/2001: Master's Degree in Psychology at the University of Bologna (110/110 cum laude). Thesis title: 'Multisensory integration in humans: an experimental study'

9/2004 License to Professional Practice in Psychology

24/05/2005 PhD in Clinical & Experimental Psychology at the University of Bologna. Thesis title: "Multisensory perception in patients with unimodal sensory defects"

Work Experience

2017 National Scientific Qualification (Abilitazione Scientifica Nazionale - ASN) to function as Full Professor in Psychobiology and Physiological Psychology

2010 Visiting Researcher, Laboratory of Neuromodulation, Spaulding Rehabilitation Hospital, Harvard Medical School

2008 & 2009 Visiting Researcher, Beth Israel Deaconess Medical Center, Harvard Medical School

2006 Post-Doctoral Fellow, Department of Psychology, University of Milano-Bicocca.

2005 Post-Doctoral Fellow, Department of Psychology, University of Roma-La Sapienza.

2003 Pre-Doctoral Fellow, Department of Neurobiology & Anatomy, Wake Forest University, Winston-Salem (NC, USA)

Other experience and professional membership

Member by Election, International Neuropsychological Society (INS)

Member, Italian Neuropsychological Society (SINP)

Member, Italian Psychological Society (AIP)

Member, Italian Society of Psychophysiology & Cognitive Neuroscience (SIPF)

Member, Society for Neuroscience

Member, Milan Center for Neuroscience (NeuroMi)

2017-2019 Secretary & Treasurer, Italian Society of Psychophysiology & Cognitive Neuroscience (SIPF)

2015-2015 Member at Large, Italian Society of Psychophysiology & Cognitive Neuroscience (SIPF)

Awards

2021 Recognized as Expert in the Parietal Lobe based on Expertscape's PubMed-based algorithms, <https://expertscape.com/ex/parietal+lobe>

2017 Basic Research Grant Award, Italian Ministry of Education and Research

2015 July cover of 'Journal of Pain' (Volume 154) to the article 'Immediate and sustained effects of 5-day transcranial direct current stimulation of the motor cortex in phantom limb pain', Bolognini et al. 2015; cover illustration by Nadia Bolognini

2015 February cover of 'Brain' (Volume 138) to the article 'Improving ideomotor limb apraxia by electrical stimulation of the left posterior parietal cortex', Bolognini et al. 2013; cover illustration by Nadia Bolognini

2014 Early Career Award, Italian Society of Psychophysiology & Cognitive Neuroscience

2013 Nottola-Mario Luzi Award under the High Patronage of the President of the Italian Republic

2012 Human Brain Mapping Editors' Choice Award

2005 McDonnell Foundation Travel Grant, attendee by selection at the Summer Institute in Cognitive Neuroscience, Dartmouth College (USA)

Scientific production

Scopus database (July 2021): H-index=31, Citations=4468; Google scholar: H-index=41, Citations=6930, i10-index=82

I have published 134 peer-reviewed international publications, 3 national books as Editor and 16 Italian or International book chapters as invited author; List of Published Work is in My Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/nadia.bolognini.1/bibliography/public/>

Associate Editor for The SAGE Handbook of Cognitive and Systems Neuroscience (2 Vols.; in preparation)

Selected representative papers in the field of Psychophysiology & Cognitive Neuroscience:

- Bolognini N., Rasi F., Coccia M., Làdavas E. (2005). Visual Search Improvement in Hemianopic Patients after Audio-Visual Stimulation. *Brain*, 128: 2830-42.
- Bolognini N., Maravita A. (2007). Proprioceptive alignment of visual and somatosensory maps in the posterior parietal cortex. *Current Biology*, 17:1890-5.
- Bolognini N., Pascual-Leone A., Fregni F. (2009). Using non-invasive brain stimulation to augment motor training-induced plasticity. *Journal of NeuroEngineering and Rehabilitation*, 6:8.
- Bolognini N., Ro, T. (2010). Transcranial Magnetic Stimulation: Disrupting Neural Activity to Alter and Assess Brain Function. *Journal of Neuroscience*, 30(29):9647-50.
- Bolognini N., Rossetti A., Convento S., Vallar G. (2013). Understanding others' feelings: the role of the right primary somatosensory cortex in encoding the affective valence of others' touch. *Journal of Neuroscience*, 33(9):4201-5.
- Bolognini N., Olgiati E., Maravita A., Ferraro F., Fregni F. (2013). Motor and parietal cortex stimulation for phantom limb pain and sensations. *Pain*, 154(8):1274-80.
- Convento S., Bolognini N., Fusaro M., Vallar G. (2014). Neuromodulation of parietal and motor activity affects motor planning and execution. *Cortex*, 57C:51-59.

- Fregni F., Nitsche M.A., Loo C., Brunoni A.R., Marangolo P., Leite J., Carvalho S., Bolognini N., Caumo W., Paik N.J., Simis M., Ueda K., Hamed E., Luu P., Tucker D.M., Tyler W.J., Brunelin J., Datta A., Juan C.H., Venkatasubramanian G., Boggio P.S., Bikson M. (2015). Regulatory Considerations for the Clinical and Research Use of Transcranial Direct Current Stimulation (tDCS): review and recommendations from an expert panel. *Clinical Research & Regulatory Affairs*, 32(1):22-35.
- Bolognini N., Convento S., Banco E., Mattioli F., Tesio L., Vallar G. (2015). Improving ideomotor limb apraxia by electrical stimulation of the left posterior parietal cortex. *Brain*, 138(Pt 2):428-39. Questo articolo ha ottenuto la cover di *Brain*
- Bolognini N., Miniussi C. (2018). Noninvasive brain stimulation of the parietal lobe for improving neurologic, neuropsychologic, and neuropsychiatric deficits. *Handbook of Clinical Neurology*, 151:427-446
- Pisoni A, Romero Lauro LJ, Vergallito A, Maddaluno O, Bolognini N. (2018). Cortical dynamics underpinning the self-other distinction of touch: A TMS-EEG study. *NeuroImage* 31;178:475-484.
- Giurgola S., Pisoni A., Maravita A., Vallar G., Bolognini N. (2019). Somatosensory cortical representation of the body size. *Human Brain Mapping*, 40(12): 3534-3547
- Zazio A., Guidali G., Maddaluno O., Miniussi C., Bolognini N. (2019). Hebbian associative plasticity in the visuo-tactile domain: a cross-modal paired associative stimulation protocol. *NeuroImage*, 201:116025
- Miller L.E., Fabio C., Ravenda V., Salemme R., Bolognini N., Hayward V., Farnè A. (2019). Primary sensorimotor processing efficiently maps touch beyond the body. *Current Biology*, 29(24): 4276-4283.e5
- Guidali G., Cairnero Souza M.I., Bolognini N. (2020). Paired Associative Stimulation drives the emergence of motor resonance. *Brain Stimulation*, 13(3):627-636.
- de Tommaso M., Betti V., Bocci T., Bolognini N., Di Russo F., Fattapposta F., Ferri R., Invitto S., Koch G., Miniussi C., Piccione F., Ragazzoni A., Sartucci F., Rossi S., Arcara G., Berchicci M., Bianco V., Delussi M., Gentile E., Giovannelli F., Mannarelli D., Marino M., Mussini E., Pauletti C., Pellicciari M.C., Pisoni A., Raggi A., Valeriani M. (2020). Pearls and pitfalls in brain functional analysis by event-related potentials: a narrative review by the Italian Psychophysiology and Cognitive Neuroscience Society on methodological limits and clinical reliability-part I. *Neurological Sciences*, 41(10):2711-2735.
- de Tommaso M., Betti V., Bocci T., Bolognini N., Di Russo F., Fattapposta F., Ferri R., Invitto S., Koch G., Miniussi C., Piccione F., Ragazzoni A., Sartucci F., Rossi S., Arcara G., Berchicci M., Bianco V., Delussi M., Gentile E., Giovannelli F., Mannarelli D., Marino M., Mussini E., Pauletti C., Pellicciari M.C., Pisoni A., Raggi A., Valeriani M. (2020). Pearl and pitfalls in brain functional analysis by event-related potentials: a narrative review by the Italian Psychophysiology and Cognitive Neuroscience Society on methodological limits and clinical reliability-part II. *Neurological Sciences*, 41(12):3503-3515
- Zapparoli L., Seghezzi S., Zirone E., Guidali G., Tettamanti M., Banfi G., Bolognini N., E. Paulesu E. (2020). How the effects of actions become our own. *Science Advances*, 6(27), eaay8301
- Guidali G., Roncoroni C., Papagno C., Bolognini N. (2020). Cross-modal involvement of the primary somatosensory cortex in visual working memory: A repetitive TMS study. *Neurobiology of Learning and Memory* 175, 107325

Recent research grants

- 1/2018 to 01/2023, GR-2016-02362497 Ricerca finalizzata, Italian Ministry of Health: 'Telerehabilitation for visual field defects: clinical efficacy of a novel multisensory therapy for adults and children with acquired brain lesions', Role: PI and national scientific coordinator (€ 285.000)
- 7/2015 to 03/2021, NCT02487966 US National Institute of Health (NIH) Grant: 'Optimizing Rehabilitation for Phantom Limb Pain Using Mirror Therapy and Transcranial Direct Current Stimulation (tDCS) - NCT02487966' Role: Consultant, PI: Prof. Felipe Fregni (\$ 1.300.000)

Editorial activity

Ad-hoc reviewer for: *Current Biology*; *Behavioral Brain Research*; *Brain*; *Cerebral Cortex*; *Cortex*; *Neuropsychologia*; *European Journal of Neuroscience*; *Frontiers in Human Neuroscience*;

Neurorehabilitation & Neural Repair; Restorative Neurology and Neuroscience; Brain Stimulation; Scientific Reports; PlosOne; Neurology.

2012- 2017 Associate Editor, BMC Neuroscience

2017 Certificate of Outstanding contribution in Reviewing, from Elsevier Publisher, awarded by the Editors of Cortex

2013 Certificate of Reviewing Excellence, from Elsevier Publisher, awarded by the Editors of Cortex

Teaching activity

University of Milano Bicocca: courses on the neural bases of behavior and cognition, human physiology, brain stimulation, neuropsychology (theory and practice) and forensic neuropsychology at the BA, master courses and specialization schools. I have supervised 10 PhD students, and more than 60 students for internship and thesis in the tracks of Neuropsychology and Cognitive Neuroscience

Milano, August 2021

