

Candidatura di Marta Bortoletto al Consiglio Direttivo della SIPF per il biennio 2023-2025

Cari colleghi e care colleghe,

Sono contenta di annunciare la mia candidatura per il secondo mandato come membro del Consiglio Direttivo della SIPF.

Per chi non mi conosce ancora, permettetemi di presentarmi brevemente.

Mi sono formata in "psicofisiologia" (psicologia e psicobiologia) presso l'Università di Padova e ho avuto l'opportunità di arricchire la mia formazione attraverso esperienze internazionali nel Regno Unito e in Australia, prima di unirmi al Laboratorio di Neurofisiologia, dell'IRCCS Fatebenefratelli di Brescia, che ho il piacere di dirigere attualmente.

La mia passione principale è dedicata allo studio dei meccanismi di connettività all'interno dei network funzionali, con un focus particolare sul sistema motorio e sulla rappresentazione delle azioni. Tuttavia, nel corso della mia carriera, ho esplorato anche numerosi altri ambiti della psicofisiologia del cervello. Sono affascinata dalla comprensione dei meccanismi di base e dalla decodifica dei segnali neurali sottostanti alle funzioni cognitive. Nel corso degli anni, ho sviluppato una solida competenza in diverse tecniche neurofisiologiche e, in parte, anche di neuroimmagine.

Recentemente, ho concentrato i miei sforzi sull'implementazione della coregistrazione TMS-EEG per studiare la connettività alla base delle principali funzioni cognitive, ed in particolare del sistema motorio.

Credo fortemente che la nostra comunità di ricerca possa beneficiare enormemente dall'adozione di pratiche di ricerca condivise, trasparenti, sostenibili e di maggior qualità. Inoltre è anche fondamentale lavorare attivamente per garantire il riconoscimento dell'impegno dei nostri ricercatori e delle nostre ricercatrici in questa direzione. Nel mio prossimo mandato, mi impegno a promuovere ulteriormente la mentalità e le azioni "open science", un'iniziativa che abbiamo avviato con successo nel mio primo mandato.

Vi ringrazio per l'attenzione con l'augurio di incontrarvi presto al nostro prossimo congresso!

Marta

Marta Bortoletto – Curriculum vitae

Date of Birth: 05/11/1979

Place of Birth: Brescia, Italy

Researcher unique identifier(s): ORCID: 0000-0002-8489-8043;

ResearcherID: A-9403-2012

Languages: Italian (native)
English (fluent)

Professional address: IRCCS Centro San Giovanni di Dio Fatebenefratelli,
Via Pilastroni 4, 25125, Brescia, Italy
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Parental leaves: 02/11/2014 – 03/05/2015
18/07/2016 – 20/03/2017

CURRENT POSITION:

Lab director at the Neurophysiology Lab. IRCCS San John of God Fatebenefratelli, Brescia, Italy (from 01/2021).

Project Coordinator - “IMH - ricerca corrente” 2021-2023: “Neurophysiological markers of cortical connectivity associated with cognitive functioning in pathological brain”

Scientific chief of Technological Transfer, IRCCS San John of God Fatebenefratelli, Brescia, Italy (from 01/2022).

Aggregate professor in “Physiology and Neurophysiology”, Degree in Psychiatric Rehabilitation, University of Brescia, Brescia, IT (from AA 2021/22).

CURRENT RESEARCH ACTIVITY:

My main research activity explores the role of effective connectivity in cognitive functioning, in healthy and pathological brains. The aim is to understand the mechanisms of cortical communication and to individuate how they can impact behavioral outcomes. In this framework, my activity is focusing on the communication between hemispheres as substrate for behavioral performance in healthy brains and cognitive impairment (see ongoing funded projects). Given my long-lasting experience in the field of action planning and action understanding, this research line has started from the investigation of the motor system and is now extending to other functional networks, including the default mode network and the executive-control network. I mainly employ neurophysiological techniques either separately (ERPs, TMS, EEG) or with a multimodal combined approach (TMS-EEG coregistration), and also other neuroimaging (fMRI, DTI). Part of my research is directed to methodological implementation of the TMS-EEG coregistration technique and the promotion of good practices to support transparency and open science.

PREVIOUS RESEARCH EXPERIENCE:

- **Senior researcher** 01/2013 – 12/2020, Neurophysiology Lab, IRCCS San John of God Fatebenefratelli
 - Project Coordinator** - “IMH - ricerca corrente” 2018-2020: “Markers of cortical reactivity and connectivity in dementia: a neurophysiological multimodal approach”
 - Project Coordinator** - “IMH - ricerca corrente” 2016-18: “Development of new markers from cortical reactivity and connectivity”.
 - Project Coordinator** - “IMH - ricerca corrente” 2013-15: “Cortical Plasticity and connectivity: induction and monitoring through non-invasive brain stimulation”.
- **Senior Post-doc** 05/2010 - 12/2012, Neurophysiology Lab, IRCCS San John of God Fatebenefratelli
 - Project Coordinator** - “IMH - ricerca corrente” 2012-13: “Cortical Plasticity and connectivity: induction and monitoring through non-invasive brain stimulation”.
 - Visiting research associate** 2012: Cognitive Neuroscience Group at the School of Psychology and Queensland Brain Institute, University of Queensland, Australia.
- **Post-doc** 03/2008 - 04/2010, Cognitive Neuroscience Group at the School of Psychology and Queensland Brain Institute, University of Queensland, Australia.
- **Post-doc** 03/2007 – 02/2008, Cognitive Neuroscience Unit at the IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia.
- **PhD student** 01/2004 – 03/2007
 - Psychophysiology Laboratory, University of Padova.
 - Visiting student**, 03/2006 – 09/2006 Howard Florey Institute at the University of Melbourne, Australia.
 - Visiting student**, 03/2004 – 09/2004 Institute of Cognitive Neuroscience, University College London, UK.

TECHNOLOGICAL TRANSFER EXPERIENCE:

- TTO 4 IRCCS Workshop, Milan 15/11/22
- Technology Transfer School for researchers at IRCCS, Pozzilli 6-7/10/22
- Netval Summer School 2022 Annual conference on technological transfer, AciCastello 19-21/9/22
- Webinar: Use license valorization and technological transfer in clinical studies, Online 27-28/4/22
- Workshop: Technological transfer in life sciences, Human Technopole 23-24/2/22
- Webinar: Technological transfer in biomedical research, Online 10-17-22/6/21

HIGHER EDUCATION AND QUALIFICATIONS:

- 2019/12/30 National scientific qualification for associate professor in physiology (05/D1)
- 2020/01/08 National scientific qualification for associate professor in General Psychology, Psychobiology and Psychometry (11/E1)
- 2007 PhD in Psychobiology, University of Padova
- 2003 MSc in Psychology, with honours, University of Padova.

FUNDING SUPPORT:

Ongoing

- Italian Multiple Sclerosis Foundation 2019/R-Multi/009 – **co-PI**. Temporal and spatial features of interhemispheric information transfer in multiple sclerosis: a multimodal approach of TMS-EEG coregistration, MRI and motor coordination.
- Italian Ministry of Health GR-2018-12368250 – **co-PI**. Targeting default mode network dysfunction in persons at risk of Alzheimer's disease with noninvasive techniques.
- Italian Ministry of Health GR-2016-02364132 – **PI**. Cortico-cortical signal transmission and brain connectivity alterations at prodromal stage and during the progression of Alzheimer's disease: a multimodal approach of TMS-EEG and advanced MRI.

Past:

- Bial Foundation, Grants for scientific research 2018 – **PI**. The motor roots of acting together: A psychophysiological investigation.
- Italian Multiple Sclerosis Foundation 2016 – **co-PI**. Temporal and spatial features of interhemispheric information transfer in multiple sclerosis: a multimodal approach of TMS-EEG coregistration, MRI and motor learning.
- ASM Foundation (2012) – **PI**. New interventions aiming at the promotion of healthy aging.

HONORS AND AWARDS:

- Italian Society of Experimental Psychology - Young researcher Award (September 2007).
- Centenario Rotary Club Brescia Nord - Excellence Award for PhD projects (March 2005).
- Erasmus travel grant from the University of Padova

TEACHING EXPERIENCE:

• University courses

- Contract professor for “Physiology and Neurophysiology” within the “Anatomy and Physiology” course, degree in Psychiatric Rehabilitation, University of Brescia. From a.y. 2021/22.
- Contract professor for “Physiology” within the Degree in Social Worker, University of Brescia. a.y. 2020/21.

• Teaching assistant

- Teaching assistant of “Physiology and Neurophysiology” within the “Anatomy and Physiology” course, degree in Psychiatric Rehabilitation, University of Brescia. From a.y. 2012/13 to a.y. 2015/16, and from a.y. 2019/2020.
- Teaching assistant of “Physiology of the nervous system” within the Degree in Physiotherapy, University of Brescia. From a.y. 2012/13 to a.y. 2015/16.

• Invited lectures at undergraduate courses

- Lecture 13/12/2019: “Mirror neurons and action understanding” within the “Anatomy and Physiology” course, degree in Psychiatric Rehabilitation, University of Brescia.
- Lecture 16/11/2017: “The cortical control of movement” within the “Anatomy and Physiology” course, degree in Psychiatric Rehabilitation, University of Brescia.
- Lecture 20/1/2016: “The cortical control of movement” within the Neurophysiology course, Medical degree, University of Brescia.

- Lecture 21/5/2015: “Higher-order movement control systems: Intention to act and mirror neurons” within the Neurophysiology course, Medical degree, University of Brescia.
- Lecture 5/6/2014: “Higher-order movement control systems: Intention to act and mirror neurons” within the Neurophysiology course, Medical degree, University of Brescia.
- Lecture 14/1/2014: “The cortical control of movement” for the course in “Physiology of the nervous system” within the Degree in Physiotherapy, University of Brescia.
- Teaching and practical training for EEG users within the university course entitled “Psychophysiology: Methods and Applications” at the School of Psychology, University of Queensland (2008 and 2009).

- **Supervision**

- From 2018, co-supervision of two PhD students at the Neurophysiology Lab. IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy
- From 2010, co-supervision of honors students and graduate students at the Neurophysiology Lab. IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy
- Supervision of Honors students at the School of Psychology, University of Queensland (2009) .
- 2008-2010, Supervision and co-supervision of honors students and graduate students at the School of Psychology, University of Queensland
- 2005-2006, Co-supervision of honors students and graduate students at the Psychophysiology Laboratory at the Department of General Psychology, University of Padova

- **PhD board**

- 2021, Member of the board of the PhD in Neuroscience – 34 cycle, University of Padova, Padova.
- 2019, Member of the board of the PhD in Neuroscience – 32 cycle, University of Milan Bicocca, Milan.

- **Masters and other courses**

- Teaching for 2nd Level Master Course in Neuropsychology: Assessment, Diagnosis and Rehabilitation, Catholic University of the Sacred Heart. Teaching of “State-dependency in neurorehabilitation” (from ay 2012/2013). Teaching and practical training on non-invasive brain stimulation and electroencephalography in cognitive neuroscience (from ay 2011/2012).
- Teaching for “Summer School: Integration of methods and techniques for research, clinic and rehabilitation in psychophysiology and neuroscience”, Milan, Italy, 22-26 June 2015.
- Teaching for “Theoretic and practical workshop on transcranial electrical stimulation”, Brescia, Italy, 26-27 June 2014.
- Teaching for “Theoretic and practical workshop on transcranial electrical stimulation”, Brescia, Italy, 8 July 2013.

NATIONAL AND INTERNATIONAL COLLABORATIONS:

- Prof Carlo Miniussi, CIMeC, University of Trento, IT
- Prof Corrado Sinigaglia, Department of Philosophy, University of Milan, IT
- Prof Marco Bove, Department of Biomedical Engineering, University of Genova, IT
- Prof Francesca Garbarini, Department of Psychology, University of Turin, IT
- Dott. Elisa Canu, Università Vita-Salute San Raffaele, Milano
- Dott. Francesca Burgio, IRCCS San Camillo Hospital, Venice

- Prof Risto Ilmoniemi, Department of Neuroscience and Biomedical Engineering, Aalto University, Finland
- Prof Jason B. Mattingley, School of Psychology and Queensland Brain Institute, University of Queensland, AU

BIG TEAM SCIENCE COLLABORATIONS

- Founder of the T4TE initiative: Team for TMS-EEG
- EEGmanypipelines
- TACS challenge multicentric study
- The big TMS data collaboration

REVIEW ACTIVITY:

Editorial board member of: Scientific Reports, Frontiers in Integrative Neuroscience

Ad-hoc reviewer for international scientific journals: Biological Psychology, Brain & Cognition, Brain Stimulation, Brain Structure and Function, Brain Topography, Cerebellum, Cerebral Cortex, Clinical Neurology and Neurosurgery, Clinical Psychophysiology, Cortex, Eneuro, Experimental Brain Research, European Journal of Neuroscience, Frontiers in Aging Neuroscience, Frontiers in Human Neuroscience, J. Alzheimer's Disease, J. Biomechanics, J. Clinical Neurophysiology, J. Motor Behavior, J. Neurophysiology, J, Neuroscience, J, Neuroscience Methods, Network Neuroscience, Neurobiology of Aging, Neuroimage, Neuroimage Clinical, Neuropsychologia, Neuropsychological Rehabilitation, Neuroscience Letters, Perceptual & Motor Skills, Plos One, Psychophysiology, Social Cognitive and Affective Neuroscience

Ad-hoc grant reviewer: European Research Council Executive Agency (ERCEA), Agence Nationale de la recherche (ANR) - French call for proposal AEP-IIA, Research Executive Agency (REA), Qualità della ricerca scientifica per il Ministero dell'istruzione, dell'università e della ricerca, Alzheimer's Association, Italian Association of Research in Alzheimer's disease (AirAlzh), The W. Garfield Weston Foundation (WBI).

SCIENTIFIC ORGANIZATION OF THE FOLLOWING NATIONAL AND INTERNATIONAL SYMPOSIA/WORKSHOPS:

SNACK SIPF: Snacks of Psychophysiology and Cognitive Neuroscience – 2023 Edition

Workshop (2022): Transcranial Brain Stimulation in Cognitive Neuroscience Workshop (3 edition). Center for Mind and Brain Sciences, Rovereto, 2-3 December.

SNACK SIPF: Snacks of Psychophysiology and Cognitive Neuroscience – 2022 Edition

Workshop (2020): Transcranial Brain Stimulation in Cognitive Neuroscience Workshop (2 edition). Center for Mind and Brain Sciences, Rovereto, 3-4 December.

Symposia (2016): TMS-EEG and connectivity. IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, 05 February.

Symposia (2013): Multimodal approach in the study of cortical connectivity. IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, 1 July.

Workshop (2013): Non-invasive Electrical Brain Stimulation (tDCS, tACS, tRNS): Basic and Applied research. IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, 30 September.

Young investigators symposia (2012): The interface between executive control and automatic behavior. XX Congress of the Italian Society of Psychophysiology, Venice, 22-24 November.

MEMBER OF SCIENTIFIC SOCIETES

- Italian Society of Psychophysiology (SIPF) – Member of the scientific committee
- Italian Association of Experimental Psychology (AIP)
- Past member: Organization for Human Brain Mapping (OHBM)
- Past member: Cognitive Neuroscience Society (CNS)
- Past member: Society for Psychophysiological Research (SPR)

BIBLIOMETRICS INDEXES:

Scopus (Orcid ID: <http://orcid.org/0000-0002-8489-8043>):

Google scholar h-index: 18; total citations: 1450 citations

Scopus h-index: 15; total citations: 990

“PEER REVIEWED” PUBLICATIONS:

- Completed Registered reports: 2 papers (31, 41)
- IPA Registered reports: 1 paper (<https://rr.peercommunityin.org/articles/rec?id=367>)
- Pre-registrations: 1 paper (35)
- Publication of raw data according to FAIR principles: 5 papers (27, 30, 31, 35, 41)

41. Guidali G, Zazio A, Lucarelli D, Marcantoni E, Stango A, Barchiesi G, **Bortoletto M** (2023). Effects of transcranial magnetic stimulation (TMS) current direction and pulse waveform on cortico-cortical connectivity: A registered report TMS-EEG study. *European Journal of Neuroscience*. In press. DOI: 10.1111/ejn.16127
40. Tarasi L, Martelli ME, **Bortoletto M**, di Pellegrino G, Romei V. (2023). Neural Signatures of Predictive Strategies Track Individuals Along the Autism-Schizophrenia Continuum. *Schizophrenia Bulletin*, sbad105, <https://doi.org/10.1093/schbul/sbad105>
39. Bertaccini R, Ippolito G, Tarasi L, Zazio A, Stango A, **Bortoletto M**, Romei V. (2023) Rhythmic TMS as a Feasible Tool to Uncover the Oscillatory Signatures of Audiovisual Integration. *Biomedicines*. 11(6):1746. <https://doi.org/10.3390/biomedicines11061746>
38. Hernandez-Pavon JC, Veniero D, Bergmann TO, Belardinelli P, **Bortoletto M**, Casarotto S, Casula EP, Farzan F, Fecchio M, Julkunen P, Kallioniemi E, Lioumis P, Metsomaa J, Miniussi C, Mutanen TP, Rocchi L, Rogasch NC, Shafi MM, Siebner HR, Thut G, Zrenner C, Ziemann U, Ilmoniemi RJ. (2023) TMS combined with EEG: Recommendations and open issues for data collection and analysis. *Brain Stimul*. 2023 Feb 23;16(2):567-593. doi: 10.1016/j.brs.2023.02.009
37. Bagattini C., Cid-Fernández S., Bulgari M., Miniussi C., **Bortoletto M**. (2023) Opposite pattern of transcranial direct current stimulation effects in middle-aged and older adults: Behavioral and neurophysiological evidence. *Frontiers in Aging Neuroscience* 15:1087749. doi: 10.3389/fnagi.2023.1087749

36. **Bortoletto M.**, Veniero D., Julkunen P., Hernandez-Pavon J.C., Mutanen T.P., Zazio A., Bagattini C. (2022). T4TE: Team for TMS–EEG to improve reproducibility through an open collaborative initiative. *Brain Stimulation* 16, 20e22. doi: 10.1016/j.brs.2022.12.004
35. Zazio A, Barchiesi G, Ferrari C, Marcantoni E, **Bortoletto M.** (2022). M1-P15 as a cortical marker for transcallosal inhibition: a preregistered TMS-EEG study. *Frontiers in Human Neuroscience* 16:937515. doi: 10.3389/fnhum.2022.937515
34. Bonzano L, **Bortoletto M.**, Zazio A, Iester C, Stango A, Gasparotti R, Miniussi C, Bove M. (2022). The hand motor hotspot for seed-based functional connectivity of hand motor networks at rest. *Frontiers in Neuroscience*, 16:896746. doi: 10.3389/fnins.2022.896746
33. Giustiniani A, Vallesi A, Oliveri M, Tarantino V, Ambrosini E, **Bortoletto M.**, Masina F, Busan P, Siebner HR, Fadiga L, Koch G, Leocani L, Lefaucheur JP, Rotenberg A, Zangen A, Violante IR, Moliadze V, Gamboa OL, Ugawa Y, Pascual-Leone A, Ziemann U, Miniussi C, Burgio F. (2022). A questionnaire to collect unintended effects of transcranial magnetic stimulation: A consensus-based approach. *Clinical Neurophysiology*, 141:101-108. doi: 10.1016/j.clinph.2022.06.008
32. Farzan F, **Bortoletto M.** (2022). Identification and verification of a ‘true’ TMS evoked potential in TMS-EEG. *Journal of Neuroscience Methods*, 378:109651. doi: 10.1016/j.jneumeth.2022.109651
31. Barchiesi G, Zazio A, Marcantoni E, Bulgari M, Barattieri di San Pietro C, Sinigaglia C, **Bortoletto M.** (2022). Sharing motor plans while acting jointly: A TMS study. *Cortex*, 151:224-239. doi: 10.1016/j.cortex.2022.03.007
30. Esposito R, **Bortoletto M.**, Zacà D, Avesani P, Miniussi C. (2022). An integrated TMS-EEG and MRI approach to explore the interregional connectivity of the default mode network. *Brain Structure and Function*, 227(3):1133-1144. doi: 10.1007/s00429-022-02453-6
29. Pievani M, Mega A, Quattrini G, Guidali G, Ferrari C, Cattaneo A, D'Aprile I, Mascaro L, Gasparotti R, Corbo D, Brignani D, **Bortoletto M.** (2021). Targeting Default Mode Network dysfunction in persons at risk of Alzheimer’s Disease with Transcranial Magnetic Stimulation (NEST4AD): Rationale and Study Design. *Journal of Alzheimer’s Disease*, 83(4):1877-1889. doi: 10.3233/JAD-210659
28. Zazio A, Miniussi C, **Bortoletto M.** (2021). Alpha-band cortico-cortical phase synchronization is associated with effective connectivity in the motor network. *Clinical Neurophysiology*, 132(10):2473-2480. doi: 10.1016/j.clinph.2021.06.025
27. Bertazzoli G, Esposito R, Mutanen TP, Ferrari C, Ilmoniemi RJ, Miniussi C, **Bortoletto M.** (2021). The impact of artifact removal approaches on TMS-EEG signal. *NeuroImage*, 239:118272. doi: 10.1016/j.neuroimage.2021.118272
26. **Bortoletto M.**, Bonzano L, Zazio A, Ferrari C, Pedullà L, Gasparotti R, Miniussi C, Bove M (2021). Asymmetric transcallosal conduction delay leads to finer bimanual coordination. *Brain Stimulation*, 14(2): 379-388. doi: 10.1016/j.brs.2021.02.002
25. Grasso PA, Tonolli E, **Bortoletto M.**, Miniussi C (2021). tDCS over posterior parietal cortex increases cortical excitability but decreases learning: an ERP and TMS-EEG study. *Brain Research*, 1753:147227. doi: 10.1016/j.brainres.2020.147227
24. Esposito R, **Bortoletto M.**, Miniussi C (2020). Integrating TMS, EEG and MRI as an approach for studying brain connectivity. *The Neuroscientist*, 26(5-6):471-486. doi: 10.1177/1073858420916452
23. Zazio A, Schreiber M, Miniussi C, **Bortoletto M.** (2020). Modelling the effects of ongoing alpha activity on visual perception: The oscillation-based probability of response. *Neuroscience and Biobehavioral Reviews*, 112:242-253. doi: 10.1016/j.neubiorev.2020.01.037

22. Fertonani A, Pirulli C, Bollini A, Miniussi C, **Bortoletto** M (2019). Age-related changes in cortical connectivity influence the neuromodulatory effects of transcranial electrical stimulation. *Neurobiology of Aging*, 82:77-87. doi: 10.1016/j.neurobiolaging.2019.07.009
21. Zazio A, **Bortoletto** M, Ruzzoli M, Miniussi C, Veniero D (2019). Perceptual and Physiological Consequences of Dark Adaptation: A TMS-EEG Study. *Brain Topography*, 32(5):773-782. doi: 10.1007/s10548-019-00715-x.
20. Bagattini C, Mutanen T, Fracassi C, Manenti R, Cotelli M, Ilmoniemi R, Miniussi C, **Bortoletto** M (2019). Predicting Alzheimer's disease severity by means of TMS-EEG coregistration. *Neurobiology of Aging*, 80: 38-45. doi: 10.1016/j.neurobiolaging.2019.04.008
19. Belardinelli P, Biabani M, Blumberger DM, **Bortoletto** M, Casarotto S, David O, Desideri D, Etkin A, Ferrarelli F, Fitzgerald PB, Fornito A, Gordon PC, Gosseries O, Harquel S, Julkunen P, Keller CJ, Kimiskidis VK, Lioumis P, Miniussi C, Rosanova M, Rossi S, Sarasso S, Wu W, Zrenner C, Daskalakis ZJ, Rogasch NC, Massimini M, Ziemann U, Ilmoniemi RJ. (2019). Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control. *Brain stimulation*, 12(3): 787-790. doi: 10.1016/j.brs.2019.01.010
18. Perini R, **Bortoletto** M, Capogrosso M, Fertonani A, Miniussi C (2016). Acute effects of aerobic exercise promote learning. *Scientific Reports*, 5(6):25440. doi: 10.1038/srep25440.
17. **Bortoletto** M, Rodella C, Salvador R, Miranda PC, Miniussi C (2016). Reduced Current Spread by Concentric Electrodes in Transcranial Electrical Stimulation (tES). *Brain Stimulation* 9(4):525-8. doi: 10.1016/j.brs.2016.03.001
16. Pellicciari MC, Miniussi C, Ferrari C, Koch G, **Bortoletto** M (2016). Ongoing cumulative effects of single TMS pulses on corticospinal excitability: an intra- and inter-block investigation *Clinical Neurophysiology*, 127(1):621-8. doi: 10.1016/j.clinph.2015.03.002
15. **Bortoletto** M, Veniero D, Thut G, Miniussi C (2015). The contribution of TMS-EEG coregistration in the exploration of the human cortical connectome. *Neuroscience and Biobehavioral Reviews*, 49: 114–124. doi: 10.1016/j.neubiorev.2014.12.014
14. **Bortoletto** M, Pellicciari MC, Rodella C, Miniussi C (2014). The Interaction With Task-induced Activity is More Important Than Polarization: A tDCS Study. *Brain Stimulation*, 8 (2): 269-276. doi: 10.1016/j.brs.2014.11.006
13. Veniero D, **Bortoletto** M, Miniussi C (2014). On the challenge of measuring direct cortical reactivity by TMS-EEG. *Brain Stimulation*, 7(5): 759-760. doi: 10.1016/j.brs.2014.05.009
12. **Bortoletto** M, Baker SK, Mattingley JB, Cunnington R (2013). Visual–Motor Interactions during Action Observation Are Shaped by Cognitive Context. *Journal of Cognitive Neuroscience*, 25(11): 1794-806. doi: 10.1162/jocn_a_00431
11. **Bortoletto** M, Mattingley JB, Cunnington R (2013). Effects of context on visuomotor interference depends on the perspective of observed actions. *PlosOne*, 8(1): e53248. doi: 10.1371/journal.pone.0053248.
10. Veniero D, **Bortoletto** M, Miniussi C (2013). Cortical modulation of short-latency TMS-evoked potentials: evidence for cortical origin. *Frontiers in Human Neuroscience*, 6: 352. doi: 10.3389/fnhum.2012.00352
9. **Bortoletto** M, Mattingley JB, Cunnington R (2011). Action intentions modulate visual processing during action perception. *Neuropsychologia*, 49: 2097-2104. doi: 10.1016/j.neuropsychologia.2011.04.004
8. **Bortoletto** M, Lemonis, M, Cunnington R (2011). The role of arousal in the preparation for voluntary movement. *Biological Psychology*, 87: 372-378. doi: 10.1016/j.biopsycho.2011.04.008.

7. **Bortoletto M**, De Min Tona G, Scozzari S, Sarasso S, Stegagno L (2011). Effects of sleep deprivation on auditory change detection: a N1-Mismatch Negativity study. *International Journal of Psychophysiology* 81: 312-316.
6. **Bortoletto M**, Cook, A, Cunnington R (2011). Motor timing and the preparation for sequential actions. *Brain and Cognition*, 75(2): 196-204. doi: 10.1016/j.bandc.2010.11.016
5. Brignani D, **Bortoletto M**, Miniussi C and Maioli C (2010). The when and where of spatial storage in memory-guided saccades. *Neuroimage*, 52(4): 1611-20. doi: 10.1016/j.neuroimage.2010.05.039
4. **Bortoletto M**, Cunnington R (2010). Motor timing and motor sequencing contribute differently to the preparation for voluntary movement. *Neuroimage*, 49(4): 3338-48. doi: 10.1016/j.neuroimage.2009.11.048
3. Veniero D, **Bortoletto M**, Miniussi C (2009). TMS-EEG co-registration: on TMS-induced artifact. *Clinical Neurophysiology* 120: 1392-1399. doi: 10.1016/j.clinph.2009.04.023
2. Poli S, Sarlo M, **Bortoletto M**, Buodo G, Palomba D (2007). Stimulus-Preceding Negativity and Heart Rate Changes in Anticipation of Affective Pictures. *International Journal of Psychophysiology* 65(1): 32-9. doi: 10.1016/j.ijpsycho.2007.02.008
1. **Bortoletto M**, Sarlo M, Poli S, Stegagno L (2006). Pre-Motion Positivity during self-paced movements of finger and mouth. *Neuroreport* 17(9): 883-6. doi: 10.1097/01.wnr.0000221830.95598.ea.

BOOK CHAPTER: Miniussi C, Bortoletto M, Thut G, Veniero D (2012). Assessing cortical connectivity using TMS – EEG. In: *Cortical Connectivity: Brain Stimulation for Assessing and Modulating Cortical Connectivity and Function*. Section I: Methods to assess and modulate cortical connectivity and functions. Robert Chen and John Rothwell (eds.). Springer-Verlag, Berlin Heidelberg chapter 5.

INVITED TALKS AND SEMINARS:

- Invited speaker: TMS-evoked potentials as a measure of inter-hemispheric effective connectivity. **Copenhagen Brain Stimulation**, 9 December 2022.
- Invited speaker: T4TE Team for TMS-EEG. **Copenhagen Brain Stimulation**, 9 December 2022.
- Seminar: Inter-hemispheric effective connectivity in the motor system studied through TMS evoked potentials. Multi-lab meeting – **IRCCS San Camillo**, 10 November 2022.
- Seminar: Transcranial magnetic stimulation (TMS) and advanced neurostimulation techniques. Turin, 26-27 May 2022.
- Keynote speaker at the **BCI & Neurotechnology Spring School**. 25 April – 4 May 2022.
- Seminar: New perspectives on stimulation of brain circuits in neuro-cognitive disorders. IRCCS Fatebenefratelli 4 March 2022.
- Seminar: TMS-evoked potentials as a measure of connectivity: data and opinions. **Snack seminars 2021 – Italian Society for Psychophysiology**. Online, 28 May 2021.
- Seminar: Aspetti temporali nelle interazioni emisferiche e loro conseguenze comportamentali. Journal Clubs – Progress Report 2020-21. Dipartimento di Psicologia Generale, **University of Padova**, 21 December 2020.
- Teacher at 8th Science Factory: **TMS–EEG Summer School and Workshop**, Aalto, 15-20 May 2020 (postponed).
- TMS-evoked potentials as a measure of interhemispheric effective connectivity, **Pre-OHBM Workshop** on Multi-Modal Connectivity Imaging of the Central Nervous System. Montreal, 25 June 2020 (postponed).

- TMS-evoked potentials to measure effective connectivity of long-range connections. **IMT School for advanced studies Lucca**, 12 February 2020.
- Brain networks underlying intelligence, consciousness and brain disorders. High School “**A.Calini**”. Brescia, 5 October 2016.
- Theoretical and technical aspects to consider when using transcranial direct current stimulation. Workshop on: Transcranial electrical stimulation in individual rehabilitation after ictus. **Monza**, 01 October 2016.
- TMS-EEG: A novel technique to study cortico-cortical connectivity. **University of Milan**, 25 January 2016.
- Tracking cortico-cortical connectivity with TMS and EEG. Pre-conference Workshop of the Italian Society of Psychophysiology, **Lucca**, 18 November 2015.
- Three challenges in the neuroscience: the free will, the mirror neurons and the connectome. High School “**A.Calini**”. Brescia, 30 April 2014.
- Brain processes underlying sensory-motor interference during action observation. **University of Padova**, 27 January 2014.
- From Action to Perception: How the motor system can influence visual perception of actions. **Brescia**, 28 June 2010.
- Effect of attention on temporal production. II Workshop Cognitive Neuroscience Unit, **Brescia**, 05 June 2007.
- Role of the supplementary motor area in self-initiated movement preparation. Neuroimaging and Neuroinformatics group meeting, Howard Florey Institute, **Melbourne**, 11 August 2006.
- The Mismatch Negativity. Seminar within the series of “Early components of Event-related Potentials”. **University of Padova**, 12 Luglio 2005.
- Vision modulates somatosensory cortical processing. PhD seminars, **University of Padova**, 02 February 2004.

TALKS AT CONGRESSES:

- Perspective of the study of brain connectivity through TMS-EEG in healthy and pathological conditions. 52th Congress of Italian Society of Neurology, Milan 3-6 December 2022.
- Looking into EEG to understand TMS effects. Congress of the Italian Society for Neuropsychology, Rovereto, 18-19 November 2022.
- The SIPF-ITRN Prize. Italian Reproducibility Network meeting “Provando e Riprovando”, Florence, 12 May 2022.
- Measuring the timing of functional connections through TMS-evoked potentials. 4th International Conference on Brain Stimulation, Charleston (USA), 6-10 December 2021.
- From Register Reports to word-wide collaborative projects. XXIX Congress of the Italian Society of Psychophysiology – **SIPF**, Palermo 30 September – 3 October.
- TMS-evoked potentials as a measure of transcallosal conduction delay in the motor system. 6th Annual Brain Stimulation and Imaging Meeting – **BrainStim**. Online, 19-20 May, 2020.
- TMS-EEG coregistration to track Alzheimer's disease progression. 8th Winter Seminar on Dementia and Neurodegenerative Disorders – **SINdem4Juniors**, 22-24 January, 2020.
- The speed race of transcallosal inhibition for bimanual coordination. XXVII Congress of the Italian Society of Psychophysiology – **SIPF**, Ferrara, 14-16 November, 2019.
- Neuromodulation of learning: The role of cortical activity and reactivity. XXV Congress of the Italian Society of Experimental Psychology – **AIP**, Milan, 18-20 September, 2019.
- TMS-EEG coregistration in the exploration of the human effective connectome. Congress of the Italian Society of Psychophysiology – **SIPF**, Lucca, 19-21 November 2015.

- State-dependency of tDCS effects on motor learning. Congress of the Italian Society of Experimental Psychology – **AIP**, Rome, 16-18 September, 2013.
- Plasticity and homeostatic regulation in the motor system: effects of transcranial electrical stimulation. Italian Society for Neurological Rehabilitation – **SIRN**, Bari, 18-20 April, 2013.
- The effects of cognitive context on visual-motor interactions. Australasian Cognitive Neuroscience Conference – **ACNS**, Brisbane, 29 November - 2 December 2012.
- Flexibility of mirror mechanisms: the effects of cognitive context. 19o Congress of the Italian Society of Psychophysiology – **SIPF**, Brescia, 14-16 Novembre 2011.
- Do Motor Plans Influence Visual Processing? 17th Congress of the Italian Society of Psychophysiology – **SIPF**, Siena, 28-31 October, 2009.
- Does action preparation modulate perception? **HCSNet** Perception and Action Workshop, Brisbane, 8-9 August, 2009.
- Effects of arousal state on readiness potential. 18th Australasian Psychophysiology Conference and general annual meeting of the society – **ASP**, Hobart, 27-29 November, 2008.
- Effects of attention to motor timing on movement-related brain activity. Congress of the Italian Society of Experimental Psychology – **AIP**, Como, 17-19 September, 2007.

POSTERS AND ATTENDED CONGRESSES:

More than 30 presentations of posters to national and international congresses. Here the list of the last 5 years:

- XXX Congress of the Italian Society for Psychophysiology and Cognitive Neuroscience (SIPF), Udine, 15-17 September 2022.
- International Conference of Cognitive Neuroscience 2022. Espoo, Finland, 18-22 May 2022.
- CuttingEEG 2021. Aix-en-Provence, 4-7 October 2021.
- Brainbox Initiative conference 2021. Online, 21-24 September 2021.
- *4th International Conference for Cognitive Neuroscience, Helsinki, 3-8 June 2020 (postponed)*
- XXVIII Congress of the Italian Society of Psychophysiology, Online, 20-21-27-28 November, 2020
- 7th International Conference on Non-invasive Brain Stimulation, Online, 10-14 Novembre, 2020
- First VIRTUAL annual meeting della Rete IRCCS delle neuroscienze e della neuroriabilitazione, Online, 8-9 Luglio, 2020
- Live MEEG, Online, 5-9 October 2020
- 6th Annual Brain Stimulation and Imaging Meeting, Online, 19-20 May, 2020
- SINDem4Juniors, 8th Winter Seminar on Dementia and Neurodegenerative Disorders, 22-24 January 2020
- XXVII Congress of the Italian Society of Psychophysiology, Ferrara, 14-16 November, 2019
- The mystery of the Brain, Tubingen, 16-19 September 2019
- XXV Congress of the Italian Society of Experimental Psychology, Milano, 18-20 September 2019
- Transcranial Brain Stimulation in Cognitive Neuroscience Workshop, Rovereto, 6-7 December 2018
- XXVI Congress of the Italian Society of Psychophysiology, Torino, 15-17 November, 2018
- Ten years of Mind/Brain Sciences at the University of Trento, Rovereto, 19-21 October 2017
- 13th International Conference for Cognitive Neuroscience, Amsterdam, 5-8 August 2017

I declare that the above-listed information is true to the best of my knowledge and that I will be responsible for any deviation from the truth of these facts.

08/09/2023

Marta Bortoletto

Brescia, 30/04/2023

A handwritten signature in black ink, appearing to read 'Marta Bortoletto', written in a cursive style.

08/09/2023