



Isabel Beatrice Marc

Indirizzo: Rome, Italia (Lavoro)

ISTRUZIONE E FORMAZIONE

01/11/2020 – ATTUALE ROME, Italia

PH.D. IN BEHAVIORAL NEUROSCIENCE La Sapienza - University of Rome

Faculty: Department of Physiology and Pharmacology, "Vittorio Erspamer"

PhD cycle: 36

Expected graduation date: 05/2024

L'ultimo rateo di borsa di dottorato è stato percepito con la mensilità di gennaio 2024.

The last doctoral scholarship payment was received with the month of January 2024.

Campo di studio Neurophysiology of Behavior

01/09/2018 – 31/07/2020 ROME, Italia

MASTER'S DEGREE La Sapienza - University of Rome

Faculty of Medicine and Psychology

Cognitive Neuroscience and Psychological Rehabilitation

LM-51 - 2nd level degree in Psychology

Thesis supervisor: BOCCIA MADDALENA

Dissertation/thesis keywords: autobiographic memory; space; time; mental time line

Official duration: 2 years

Final degree mark: 110/110 cum laude

Graduation date: 28/07/2020

Campo di studio Psicologia | **Voto finale** 110/110 cum laude |

Tesi "Wandering across time: space-time interference effects in autobiographical memory".

01/09/2015 – 18/07/2018 CATANIA, Italia

BACHELOR'S DEGREE University of Catania

Department of Education

Psychological Sciences and Techniques

L-24 - First level degree in Psychology

Thesis topic: PSYCHOLOGY OF DISABILITY AND REHABILITATION

Thesis supervisor: BUONO SERAFINO

Thesis keywords: DSA; ICD; Consensus Conference; computer

Official duration: 3 years

Final graduation mark: 110/110 cum laude

Graduation date: 18/07/2018

Campo di studio Psicologia | **Voto finale** 110/110 cum laude |

Tesi DSA: DIAGNOSIS, TREATMENT AND TECHNOLOGICAL SUPPORTS.

01/09/2006 – 31/07/2011 ISPICA, Italia

SECONDARY LINGUISTIC SCHOOL DIPLOMA J. KENNEDY LINGUISTIC SECONDARY SCHOOL

Indirizzo 97014, ISPICA, Italia

01/09/2019 – 31/01/2020

MASTER INTERNSHIP La Sapienza - University of Rome (University Hospital Facility - Policlinico Umberto I)

Campo di studio Psicologia

Main activities and responsibilities:

- psicological introductory interviews
- writing and returning diagnostic reports
- counselling within and outside the hospital facilities
- use of diagnostic tools, such as:

1. MINNESOTA MULTIPHASIC PERSONALITY INVENTORY- 2

(MMPI-2)-vers. it. P.Pancheri, S. Sirigatti (1995).

2. CROWN-CRISP EXPERIENTIAL INDEX (CCEI)- vers. it. R. Nardella

1970, O. S. Firenze 1979.

3. BINGE EATING SCALE (BES) - J.Gormally, S. Daston& D. Rardin, 1982.

4.EDIMBURG POSTNATAL DEPRESSION SCALE J.L.Cox, J.K.Holden e R.Sagowsky, 1987

Campo di studio Psicologia**COMPETENZE LINGUISTICHE**Lingua madre: **RUMENO** | **ITALIANO**

Altre lingue:

	COMPRENSIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale	Interazione orale	
INGLESE	C1	C1	C1	C1	B2
TEDESCO	B2	B2	B2	B2	B1
FRANCESE	A2	B1	A2	A2	A2

*Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato***COMPETENZE DIGITALI**

Windows | LINUX (Ubuntu) | GoogleChrome | Advanced knowledge Microsoft Office | Posta elettronica | Google Drive | MatLAB (Advanced) | MATLAB Toolboxes: EEGLAB, SPM, Psychtoolbox, FieldTrip | Python | Jupiter Notebook | Gnu Octave | SPSS software statistiche | MRICro

PUBBLICAZIONI

2023

[The transitive inference task to study the neuronal correlates of memory-driven decision making: A monkey neurophysiology perspective](#)

Authors: Ramawat, S.; **Marc, I.B.**; Ceccarelli, F.; Ferrucci, L.; Bardella, G.; Ferraina, S.; Pani, P.; Brunamonti, E.**[SECOND AUTHOR]**<https://doi.org/10.1016/j.neubiorev.2023.105258>

2023

[Restart errors reaction time of a two-step inhibition process account for the violation of the race model's independence in multi-effector selective stop signal task](#)

Authors: **Marc, I.B.**; Giuffrida, V.; Ramawat, S.; Fiori, L.; Bardella, G.; Fagioli, S.; Ferraina, S.; Pani, P.; Brunamonti, E.**[FIRST AUTHOR]**<https://doi.org/10.3389/fnhum.2023.1106298>

2022

[Evaluating consequences in decision-making: behavioral data and neural recordings from monkey premotor and prefrontal cortex](#)

Authors: Fontana, R.; Andujar, M.; **Marc, I. B.**; Giuffrida, V.; Ramawat, S.; Bardella, G.; Di Bello, F.; Kirchherr, S.; Brunamonti, E.; Pani, P.; Ferraina, S.**[AUTHOR]**<https://doi.org/10.25493/D4F8-S64>

Published Dataset

2023

The role of reward expectation in the modulation of inhibitory control: behavior data and neural recordings from monkey premotor area

Authors: Fontana, R.; Giamundo, M.; *Marc, I. B.*; Ramawat, S.; Giuffrida, V.; Bardella, G.; Brunamonti, E.; Pani, P.; Ferraina, S.

[AUTHOR]

<https://doi.org/10.25493/CAYC-156>

Dataset [under embargo]

2023

Reward prospect affects strategic adjustments in stop signal task

Authors: Giuffrida, V.[†]; *Marc, I.B.*[†]; Ramawat, S.; Fontana, R.; Fiori, L.; Bardella, G.; Fagioli, S.; Ferraina, S.; Brunamonti, E.; Pani, P.

[[†] Co-FIRST AUTHOR]

<https://doi.org/10.3389/fpsyg.2023.1125066>

2022

Response preparation affects cognitive motor control in human touch screen interaction.

Authors: Andujar, M.[†]; *Marc, I. B.*[†]; Giuffrida, V.; Ferraina, S.; Brunamonti, E.; Pani, P.

[[†] Co-FIRST AUTHOR]

<https://doi.org/10.1177/00187208221132749>

2022

Motor inhibition parameters are reflected in the kinetic and kinematic of gait initiation in a step version of the Stop Signal Task

Authors: Fiori, L.; *Marc, I.B.*; Ramawat, S.; Tatarelli, A.; Varrecchia, T.; Chini, G.; Ranavolo, A.; Draicchio, F.; Pani, P.; Ferraina, S.; Brunamonti, E.

[SECOND AUTHOR]

<https://doi.org/10.1016/j.gaitpost.2022.09.021>

2021

Mental representation of autobiographical memories along the sagittal mental timeline: Evidence from spatiotemporal interference

Authors: Teghil, A.; *Marc, I.B.*; Boccia, M.

[SECOND AUTHOR]

<https://doi.org/10.3758/s13423-021-01906-z>

ABSTRACT E POSTER IN ATTI DI CONVEGNO

11/11/2023 – 15/11/2023

Local field potentials in macaque dorsal premotor cortex are modulated by the manipulation of acquired ordinal information in a transitive inference task

Authors: *Marc, I.B.**; Giuffrida, V.; Ramawat, S.; Andujar, M.; Bardella, G.; Pani, P.; Ferraina, S.; Brunamonti, E.

[* PRESENTER AUTHOR]

Conference Abstract & Poster: 53th Annual Meeting Society for Neuroscience - SFN

11/11/2023 – 15/11/2023

Motor decision is influenced by the difficulty of solving a numerical comparison in a selective stop signal task

Authors: *Marc, I.B.**; Segreti, M.; Giuffrida, V.; Ramawat, S.; Ann, P.; Bardella, G.; Pani, P.; Ferraina, S.; Brunamonti, E.

[* PRESENTER AUTHOR]

Conference Abstract & Poster: 53th Annual Meeting Society for Neuroscience - SFN

26/04/2023 – 28/04/2023

The premises of a transitive inference task modulate the synchrony of local field potentials in macaque dorsal premotor cortex

Authors: *Marc, I.B.**; Bardella, G.; Giuffrida, V.; Ramawat, S.; Pani, P.; Ferraina, S.; Brunamonti, E.

[* PRESENTER AUTHOR]

Conference Poster: 13th Primate Neurobiology Meeting 2023

07/09/2021 – 09/09/2021

Failure of the race model accounting for inhibition in a stop signal selective task of upper and lower limb

Authors: *Marc, I.B.**; Romano, V.; Ramawat, S.; Fiori, L.; Andujar, M.; Londei, F.; Ceccarelli, F.; Ferraina, S.; Brunamonti, E.

[* PRESENTER AUTHOR]

Conference Abstract & Poster: 71st SIF National Congress - The Italian Society of Physiology

11/11/2023 – 15/11/2023

Neuronal population dynamics and network organizations reflect motivational context in monkey premotor cortex during movement execution and inhibition

Authors: Giuffrida, V.; **Marc, I.B.**; Bardella, G.; Ramawat, S.; Fontana, R.; Brunamonti E.; Pani, P.; Ferraina, S.

[SECOND AUTHOR]

Conference Abstract & Poster: 53th Annual Meeting Society for Neuroscience - SFN

2023 – 2023

Inhibitory cortical control in healthy subjects: modulation of beta and gamma oscillations in frontal cortical areas

Authors: Falletti, M.; **Marc, I.B.**; D'Onofrio, V.; Asci, F.; Ferraina, S.; Suppa, A.

[SECOND AUTHOR]

Conference Poster: 67° Congresso Nazionale Società Italiana di Neurofisiologia Clinica

07/09/2021 – 09/09/2021

Difference in task-difficulty encoding during logical decision-making in prefrontal and premotor cortical activity from non-human primates

Authors: Ramawat, S.; **Marc, I.B.**; Andujar, M.; Ceccarelli, F.; Londei, F.; Pani, P.; Genovesio, A.; Ferraina, S.; Brunamonti, E.

[SECOND AUTHOR]

Conference Abstract & Poster: 71st SIF National Congress - The Italian Society of Physiology

27/03/2023 – 31/03/2023

Functional network complexity reflects diverse reward contexts in macaque premotor cortex

Authors: Giuffrida, V.; Bardella, G.; Ramawat, S.; **Marc, I.B.**; Fontana, R.; Brunamonti E.; Pani, P.; Ferraina, S.

[AUTHOR]

Conference Abstract & Poster: Human Brain Project - Summit 2023

2021 – 2021

Forcing the winning horse: how the amount of force on a push button affects the inhibition of finger release in a stop signal task.

Authors: S. Colangeli; S. Ramawat; **Marc, I.B.**; P. Pani; S. Ferraina; E. Brunamonti

[AUTHOR]

Conference Abstract & Poster: 50th Annual Meeting Society for Neuroscience - SFN

07/09/2021 – 09/09/2021

Stable and dynamic response population coding in prefrontal cortex

Authors: Ceccarelli, F.; Londei, F.; Di Bello, F.; Ramawat, S.; **Marc, I.B.**; Brunamonti, E.; Genovesio, A.

[AUTHOR]

Conference Abstract & Poster: 71st SIF National Congress - The Italian Society of Physiology

07/09/2021 – 09/09/2021

Formation of cell assemblies in the prefrontal cortex of macaque monkeys during a distance and a temporal discrimination task

Authors: Londei, F.; Ceccarelli, F.; Ferrucci, L.; Ramawat, S.; **Marc, I.B.**; Russo, E.; Genovesio, A.

[AUTHOR]

Conference Abstract & Poster: 71st SIF National Congress - The Italian Society of Physiology

● CONFERENZE E SEMINARI

11/11/2023 – 15/11/2023

53th Annual Meeting Society for Neuroscience - SFN

Location: Washington DC - US

26/04/2023 – 28/04/2023

13th PRIMATE NEUROBIOLOGY

Location: German Primate Center in Gottingen - GERMANY

27/03/2023 – 31/03/2023

Human Brain Project Summit

Location: Marseille - FRANCE

07/09/2021 – 09/09/2021

71st CONGRESS OF THE ITALIAN SOCIETY OF PHYSIOLOGY (SIF 2021)

Location: SIF Milano - ITALY

12/05/2021 – 12/05/2021 Centro di Ricerca S.T.I.T.C.H., SAPIENZA - University of Rome

HOW ROBOTICS HELP TO UNDERSTAND HUMAN MOTOR CONTROL

14/04/2021 – 14/04/2021 Centro di Ricerca S.T.I.T.C.H., SAPIENZA - University of Rome

REAL BRAINS IN VIRTUAL BODIES

05/03/2021 – 05/03/2021 Rome-API (Associazione Primatologi Italiani) / Online

NON-HUMAN PRIMATES IN LABORATORIES: RESEARCH CONTEXTS AND REGULATIONS

15/12/2020 – 15/12/2020 University of Oxford / Online

HUMAN DECISION MAKING UNDER PRESSURE AND IN DIFFERENT SOCIAL CONTEXTS

● **PROGETTI**

30/09/2023

Progetto europeo COREDEM 'The Influence of Complex Reward Computation and Working Memory Load onto Decision-Making:

Partecipazione al progetto COREDEM EU contribuendo alla raccolta e all'analisi di dati neuronali da primati non umani impegnati in compiti di decision-making.

● **ONORIFICENZE E RICONOSCIMENTI**

2021

Award for Research Initiation Projects - Type 1 – University of Sapienza

Inhibitory cortical control in Parkinson's disease: role of transcranial alternating current stimulation in modulating beta/gamma oscillations in frontal cortical areas.

Fin. concesso: 1250,00€

● **BANDI VINTI: COLLABORAZIONE / ORIENTAMENTO / TUTORAGGIO**

01/12/2023 – 31/01/2024

Tutorato D'Ateneo - Facoltà Area Psicologia, Pedagogia e Servizio Sociale

Progetto Tutorato: incentivazione delle attività di tutorato, per le attività didattico-integrative, propedeutiche e di recupero.

Bando prot. n. 2314 del 21 luglio 2023

06/2023 – 06/2023

Orientamento Next Generation (EU)

Progetto Orientamento Next Generation Università del Lazio

SAPIENZA nell'ambito del PNRR (M4.C1-24).

2018 – 2019

Borse di Collaborazione di Facoltà presso il Dipartimento di Psicologia

2019 – 2020

Borse di Collaborazione di Facoltà presso il Dipartimento di Psicologia

● **WORKSHOP AND EXTRA-CURRICULAR TRAINING COURSES**

01/12/2022 – 01/12/2022

FROM LINEAR REGRESSION TO DEEP MODELS USING NEURAL NETWORKS

Online Course

Location: University of Sapienza - Italy

15/08/2022 – 19/08/2022

LINEAR ALGEBRA FOR NEUROSCIENTISTS (2EC)

Summer School: Focus on analog electrophysiology signals (LFP/EEG/MEG), with matrix-based data analysis methods in neural time series data, least-squares model fitting, multivariate dimensionality-reduction, and source-separation methods.

Location: University of Radboud / Nijmegen - The Netherlands

13/06/2022 – 15/06/2022

EBRAINS: BRAIN ACTIVITY ACROSS SCALES AND SPECIES

Thematic Workshop: Analysis of experiments and simulations (BASSES)

The Human Brain Project (HBP) - Co-funded by the European Union

Location: Rome - Italy

02/05/2022 – 06/05/2022

IN2PRIMATE BRAINS'

Thematic Workshop : Training-through-research programme dedicated to the study of neuronal intra and inter-areal communication in non-human primate (NHP) brains.

EU-funded In2PrimateBrains project : This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 956669

Location: University of Sapienza - Italy

14/11/2022 – 30/11/2022

Sperimentazione Preclinica e Benessere Animale dell'Università di Roma La Sapienza

Workshops with final tests:

- Legislazione nazionale cfp3
- Etica, benessere degli animali e Tre R (livello 1) cfp2
- Biologia appropriata di base -Topi; Primati non umani cfp4
- Cura, salute e gestione degli animali – Topi; ratti; Primati non umani cfp 5
- Riconoscimento del dolore, della sofferenza e del distress – Topi; ratti; Primati non umani cfp 5
- Metodi umanitari di soppressione cfp 2
- Procedure minimamente invasive senza anestesia – Topi ; Primati non umani cfp 3
- Anestesia per procedure minor cfp3

19/07/2021 – 22/07/2021

2nd ONLINE COGNITIVE AND AFFECTIVE NEUROPHYSIOLOGY SUMMER SCHOOL

Summer School : Acquisition, processing, and analysis of EEG signal.

Location: University of Porto / Online

03/06/2021 – 04/06/2021

2nd INTERNATIONAL WORKSHOP ON NON-INVASIVE BRAIN STIMULATION

The workshop covered state-of-the art modeling methods in TMS, TDCS, and TACS as well as their combination with imaging methods and experimental research.

Location: University of Minnesota / Online

05/11/2021 – 05/11/2021

Collaborative project writing and networking in the context of Horizon Europe.

Online Course

01/01/2021 – 22/02/2021

MATLAB Onramp

Scrivi qui la descrizione...

● LECTURES

26/10/2023 – 26/10/2023

Structuring knowledge across reference frames: beyond hippocampal cognitive maps

Speaker: Bottini R.

20/07/2023 – 20/07/2023

Bayesian approach to hypothesis testing

Speaker: Lasaponara S.

21/06/2023 – 21/06/2023

Application of pupillometry to research in neuroscience

Speaker: Lasaponara S.

25/05/2023 – 25/05/2023

Limits of the averaging technique for the study of event-related response (ERS/ERD) and time-frequency analysis

Speaker: Lasaponara S.

● ESPERIENZA LAVORATIVA

01/07/2011 – 31/12/2017 Ispica (RG), Italia

COMMERCIAL, SALES PERSON ON THE EUROPEAN MARKET. NATURA IBLEA SRL

Main activities and responsibilities:

- responsibility and care of sales on the European market, mainly the German, Danish, Swedish (Northern European) market.
- closing sales contracts on the spot or traveling to customers.
- customer relations and any relevant issues that might emerge.

As a side employment, I also dealt with administrative issues such as supplier payments, customer payments, and probable collections of past payments or credit notes.

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

Rome , 19/04/2024



Isabel Beatrice Marc