

LAURA ZAPPAROLI

CURRICULUM VITAE

PLACE AND DATE OF BIRTH

Bergamo (Italy); August 19, 1986.

Email: laura.zapparoli@gmail.com

CURRENT POSITION

Post Doctoral Researcher

fMRI Unit

IRCCS Galeazzi

Milan, Italy

EDUCATION AND CAREER

2016-now: Master Student in Biostatistics, University of Milano-Bicocca (exams passed so far: 7/13; mean mark: 28/30).

2012-2015: PhD in Cognitive Psychology and Cognitive Neuroscience. Psychology Department University of Milano-Bicocca, Milan. Supervisor: Prof. Eraldo Paulesu.

2014-2015: Visiting PhD Student at Sobell Department of Motor Neuroscience and Movement Disorders; Institute of Neurology; University College London. Supervisor: Dr. James Kilner

2014: Research fellowship for the project “Can mental training based on motor imagery speed up the rehabilitation of walking? Efficacy of a controlled procedure and neurofunctional bases of recovery in patients with total knee arthroplasty” at IRCCS Galeazzi (Milan), founded by the Italian Ministry of Health (Ricerca Finalizzata Ordinaria 2011).

2014: Member of the Milan Center for Neuroscience (NeuroMi)

2012: Qualification for Psychologist (Albo della Lombardia, 03/15197).

2012: Research fellowship for the project “Motor control in Gilles de la Tourette Syndrome: an fMRI study” at IRCCS Galeazzi (Milan).

2011-2012: Apprenticeship at Cognitive Neuropsychology Laboratory at Department of Neuroscience, Niguarda Ca' Granda Hospital.

2010-2011: Apprenticeship: University of Milano-Bicocca, Niguarda-Ca' Granda Hospital (Stroke Unit, Neuroradiology Unit and Cognitive Neuropsychology Laboratory) and IRCCS Galeazzi (Neuroradiology Unit and Movement Disorders and Tourette Syndrome Centre).

2010: MSc Master Degree in Neuropsychology (summa cum laude).

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2008: BSc Bachelor Degree in Psychology (summa cum laude).

RESEARCH INTERESTS

Cognitive psychology, neuropsychology and neuroscience.

Motor function and awareness.

Structural and Functional Neuroimaging.

SCIENTIFIC ACTIVITY

Associate Editor for the *Journal of European Psychology Students*

Ad hoc referee for *Cerebral Cortex*, *Human Brain Mapping*, *Scientific Reports (Nature Publishing Group)*, *Neurobiology of Aging*, *Neuropsychologia*, *Neuroimage: Clinical*, *Neuroscience Letters*, *Frontiers in Human Neuroscience*, *Consciousness and Cognition*, *Frontiers in Psychology*, *PLoS One*, *Journal of the International Neuropsychological Society*.

Member of:

- *SFN - Society for Neuroscience*
- *SINP - Italian Society for Neuropsychology*
- *AIP - Italian Association of Experimental Psychology*.

SCIENTIFIC PRODUCTION

1. *A tug of war: antagonistic effective connectivity patterns over the motor cortex and the severity of motor symptoms in Gilles de la Tourette syndrome.*

Laura Zapparoli, Marco Tettamanti, Mauro Porta, Domenico Servello, Alberto Zerbi, Giuseppe Banfi, Eraldo Paulesu.

European Journal of Neuroscience, 2017

2. *Mental steps: Differential activation of internal pacemakers in motor imagery and in mental imitation of gait.*

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Lucia Sacheli, **Laura Zapparoli**, Carlo De Santis [...] and Eraldo Paulesu.

Human Brain Mapping, 2017.

3. Functional brain effects of hand disuse in patients with trapeziometacarpal joint osteoarthritis: executed and imagined movements.

Martina Gandola, Maurilio Bruno, **Laura Zapparoli**, ..., Eraldo Paulesu.

Experimental Brain Research, 2017.

4. The What, the When, and the Whether of Intentional Action in the Brain: A Meta-Analytical Review.

Laura Zapparoli, Silvia Seghezzi, Eraldo Paulesu.

Frontiers in Human Neuroscience, 2017.

5. A new framework to explain sensorimotor beta oscillations.

Clare E. Palmer, **Laura Zapparoli**, James M. Kilner

Trends in Cognitive Sciences, 2016

6. When I am (almost) 64: the effect of normal ageing on implicit motor imagery in young elderlies.

Laura Zapparoli, Gianluca Saetta, Carlo De Santis, Martina Gandola, Alberto Zerbi, Giuseppe Banfi, Eraldo Paulesu.

Behavioural Brain Research, 2016

7. An fMRI investigation on motor control in Gilles de la Tourette Syndrome: imagined and executed movements

Laura Zapparoli, Mauro Porta, Martina Gandola, Valeria Colajanni, Domenico Servello, Alberto Zerbi, Giuseppe Banfi, Eraldo Paulesu.

European Journal of Neuroscience, 2016

8. The anarchic brain in action: the contribution of task-based fMRI studies to the understanding of Gilles de la Tourette syndrome.

Laura Zapparoli, Mauro Porta and Eraldo Paulesu.

Current Opinion in Neurology, 2015

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Citations=5

9. *Like the back of the (right) hand? A new fMRI look on the hand laterality task.*

Laura Zapparoli, Paola Invernizzi, Martina Gandola, Manuela Berlingeri, Antonio De Santis, Alberto Zerbi, Giuseppe Banfi and Eraldo Paulesu.

Experimental Brain Research, 2014

10. *Functional anatomical patterns in anosognosia for hemiplegia: implications for current models of motor awareness.*

Martina Gandola, Paola Invernizzi, **Laura Zapparoli**, Margherita Verardi, Roberto Sterzi, Ignazio Santilli, Maurizio Sberna, Gabriella Bottini, Eraldo Paulesu.

Consciousness and Cognition, 2014

11. *Mental images across the adult life-span: A behavioural and fMRI investigation of motor execution and motor imagery.*

Laura Zapparoli, Paola Invernizzi, Martina Gandola, Margherita Verardi, Manuela Berlingeri, Maurizio Sberna, Antonio De Santis, Alberto Zerbi, Giuseppe Banfi, Gabriella Bottini, Eraldo Paulesu.

Experimental Brain Research, 2013

12. *What is mine? Behavioral and anatomical dissociations between somatoparaphrenia and anosognosia for hemiplegia.*

Paola Invernizzi, Martina Gandola, Daniele Romano, **Laura Zapparoli**, Gabriella Bottini, Eraldo Paulesu.

Behavioural Neurology, 2013

GRANTS and AWARDS

2015: **Best Poster Presentation Award** at the 5th Conference of the Federation of the European Societies of Neuropsychology

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2015: **Travel grant awarded by SINP-Italian Society of Neuropsychology** to attend 5th Conference of the Federation of the European Societies of Neuropsychology

2013: “***Neurofunctional correlates of intentional motor processes***”.

Funding agency: Cariplo Foundation

Principal Investigator: Laura Zapparoli.

Amount (€): 3000.

2012: “***Intentional motor processes***”

Funding agency: Ministry of Education and Research (“Research programs of national interest”).

Principal Investigator: Eraldo Paulesu; Other personnel: Laura Zapparoli.

Amount (€): 107.000.

2012: **Scholarship for four years of PhD school in Cognitive Neuroscience.**

Funding agency: Ministry of Education and Research

Amount (€): 64.000.

SKILLS

Languages

Mother tongue: Italian

Other languages:

ENGLISH: Reading: excellent, Writing: very good, Oral expression: very good

FRENCH: Reading: excellent, Writing: good, Oral expression: good

Experiment programming

Presentation (NBS), E-Prime, Cogent.

Data analysis

SAS, R, SPM, SPSS, Matlab, MRICro, mricron, GingerALE.