

# CURRICULUM VITAE

## Luca Falciati, Ph.D.

Nationality: Italian

Gender: male

### CURRENT POSITION

Researcher (Assistant Professor) in Physiology, at the Department of Clinical and Experimental Sciences, University of Brescia, Brescia (Italy), since November 1<sup>st</sup>, 2010

### EDUCATIONAL AND PROFESSIONAL BACKGROUND

- June 2004 - October 2010: holder of Research Scholarships at the Department of Biomedical Sciences and Biotechnology – Section of Physiology at the University of Brescia, Brescia (Italy)
- June 2006: PhD in Cognitive Sciences at University of Siena, Siena (Italy). Thesis title: “Codifica spaziale automatica dell’informazione visiva nel ciclo percezione-azione” (Automatic spatial coding of visual information in perception-action cycle). Supervisors: Prof. Giuliano Fontani and Prof. Oronzo Parlangei
- January 2003 - June 2004: Research Scholarship Holder on the theme “*Assessment of precision in the application of TMS*” at the Laboratory of Neurophysiology & Neuropsychology “Centro S. Giovanni di Dio - Fatebenefratelli”, Brescia (Italy), supervisors: Prof. Paolo Maria Rossini and Prof. Carlo Miniussi
- March - September 2002: Post graduate research training on the theme “*Investigating the Simon effect in virtual environments*” at the Department of General Psychology, University of Padua, Italy. Tutor: Prof. Carlo Arrigo Umiltà.
- September 2001 - March 2002: Post graduate research training on the theme “Perceptive requirements for gender identification” at the Department of General Psychology, University of Padua, Italy. Tutor: Dr. Marta Panzeri.
- June 2001 Laurea (BA and MSc equivalent) in “General and Experimental Psychology, Neuropsychology” at the University of Padova, Padova (Italy). Thesis title: “Spostamento dell’attenzione nello spazio virtuale” (*Attentional shift into virtual space*). Supervisor: Prof. Carlo Arrigo Umiltà

### TEACHING EXPERIENCE (academic year: a.y.)

- from a.y. 2011-2012 to present: “Physiology”, Bachelor’s Degree in Biotechnology, University of Brescia, Brescia (Italy)

- from a.y. 2017-2018 to present: “Human Physiology”, Bachelor’s Degree in Physiotherapy, University of Brescia, Brescia (Italy)
- from a.y. 2011-2012 to present: lecturer at the Master in “Neuropsychology: assessment, diagnosis and rehabilitation”, Catholic University of the Sacred Heart of Milan, Milan (Italy)
- a.y. 2010-2011: lecturer in “Cellular Physiology” and in “Neurophysiology” for the course in “Human Physiology”, Bachelor’s Degree in Biotechnology, University of Brescia, Brescia (Italy)
- from a.y. 2007-2008 to a.y. 2009-2010: “Fundamentals of Cellular Biology and Physiology”, Bachelor’s Degree in Mechanical Engineering, University of Bergamo, Bergamo (Italy).
- a.y. 2002-2003: “General Psychology”, Bachelor’s Degree in Logopedics, University of Padova, Padova (Italy)

## REFEREE ACTIVITY

Ad hoc referee for the following journals: Scientific Reports, The Scientific World Journal.

## LIST OF PUBLICATIONS

### Journal Articles

- MAIOLI C., FALCIATI L. (2017). Dynamic Changes in Upper-Limb Corticospinal Excitability during a 'Pro-/Anti-saccade' Double-Choice Task. *Frontiers in human Neurosciences*, 10.3389/fnhum.2017.00624
- FALCIATI L., MARELLI G., GOBBO M., MAIOLI C. (2016). Effects of neuromuscular stimulation on the excitability of the corticospinal system. *Neuropsychological Trends*, 20, p. 91
- MAIOLI C., FALCIATI L. (2015). Covert preparation of a manual response in a ‘go’/’no-go’ saccadic task is driven by execution of the eye movement and not by visual stimulus occurrence. *Frontiers in human Neurosciences*, doi: 10.3389/fnhum.2015.00556
- GOBBO M., FALCIATI L. (2014). Neuromodulation and cognitive rehabilitation: addressing the methodological issue of circadian rhythms. *Frontiers in Psychiatry*, doi: 10.3389/fpsy.2014.00150
- VENEZIANI S., DORIA C., FALCIATI L., CASTELLI C. C., FANÒ ILLIC G. (2014). Return to competition in a chronic low back pain runner: beyond a therapeutic exercise approach, a case report. *European Journal of Translational Myology – Basic Applied Myology*, 24(3):203-207
- FALCIATI L., BALCONI M., COBELLI C., MAIOLI C. (2014). Effects of spatial cueing on overt orienting of gaze to attentive stimuli. *Neuropsychological Trends*, 15:25-33
- FALCIATI L., GIANESINI T., MAIOLI C. (2013). Covert oculo-manual coupling induced by visually guided saccades. *Frontiers in human Neurosciences*, doi: 10.3389/fnhum.2013.00664
- MAIOLI C., FALCIATI L., GIANESINI T. (2007). Pursuit eye movements involve a covert motor plan for manual tracking. *The Journal of Neuroscience*, 27, p. 7165-7173

- MAIOLI C., **FALCIATI L.**, MARANGON M., PERINI S., LOSIO A. (2006). Short- and long-term modulation of upper limb motor evoked potentials induced by acupuncture. *European Journal of Neuroscience*, 23(7):1931
- MAIOLI C., **FALCIATI L.**, MARANGON M., PERINI S., LOSIO A. (2006). Short- and long-term modulation of upper limb motor evoked potentials induced by acupuncture. *European Journal of Neuroscience*, 23(7), p. 1931-1938
- FALCIATI L.**, TAGLIABUE M. (2006). Presenza e validità ecologica. *Giornale Italiano di Psicologia*, 33: 27-56.
- TAGLIABUE M., **FALCIATI L.**, UMITÀ C.A. & MASSACCESI S. (2006). Compatibilità spaziale Stimolo-Meta e compatibilità spaziale Meta-Risposta in situazioni ecologiche. *Giornale Italiano di Psicologia*, 33: 143-174.

### **Conference Proceedings, Books and Books Chapters**

- FALCIATI L.**, TURETTI L., GALLI J., MICHELETTI S., COBELLI C., BALCONI M., FAZZI E., MAIOLI C. (2018). Visuospatial attentive capabilities and saccadic inhibitory control in children with spastic cerebral palsy. Proceedings of the 49th annual meeting of the Society for Neuroscience, SfN 2018, San Diego, November 3-7, 2018
- FALCIATI L.**, MINIUSI C. (Eds.) (2018) *Psicobiologia dei disturbi comportamentali*. (author: TOATES F.). Pearson: Milano, Italia
- TURETTI L., **FALCIATI L.**, GALLI J., MICHELETTI S., COBELLI C., BALCONI M., FAZZI E., MAIOLI C. (2017). The evaluation of visual attention skills in children with cerebral palsy using a remote infrared eye-tracking system. Abstracts book of the 29th European academy of Childhood Disability (EACD) Annual Meeting - Amsterdam, May 17-20, 2017
- TURETTI L., **FALCIATI L.**, GALLI J., MICHELETTI S., COBELLI C., BALCONI M., FAZZI E., MAIOLI C. (2017). Il controllo dei movimenti oculari nei bambini con paralisi cerebrale infantile. Libro degli abstracts del XXVIII Congresso Nazionale SINPIA – La dimensione evolutiva in Neuropsicologia Infantile, Napoli, 5-7 Ottobre 2017
- FALCIATI L.**, MARELLI G., GOBBO M, MAIOLI C. (2017). Effects of Neuromuscular Electrical Stimulation on the excitability of the Corticospinal System. *Neuropsychological Trends*, 20, p. 91
- TURETTI L., **FALCIATI L.**, GALLI J., MICHELETTI S., COBELLI C., BALCONI M., FAZZI E., MAIOLI C. (2016). Oculomotor control in children with Cerebral Palsy. *Neuropsychological Trends*, 20, p. 180-181
- FALCIATI L.**, MARELLI G., GOBBO M, MAIOLI C. (2017). Effects of Neuromuscular Electrical Stimulation on the excitability of the Corticospinal System. *Neuropsychological Trends*, 20, p. 91
- FALCIATI L.**, MARELLI G., GOBBO M., MAIOLI C. (2016). Effects of neuromuscular stimulation on the excitability of the corticospinal system. *Neuropsychological Trends*, 20, p. 91
- FALCIATI L.**, MINIUSI C. (Eds.) (2015) *Psicobiologia del comportamento* (author: TOATES F.). Pearson: Milano, Italia

- COBELLI C., **FALCIATI L.**, BALCONI M., MICHELETTI S., TURETTI L., PANSERA L., FAZZI E., MAIOLI C. (2014). Visuospatial attention in cerebral palsy: an eye movement study. *Neuropsychological Trends*, 16, p. 79
- FALCIATI L.**, MAIOLI C. (2013). The role of ocular movements induced by endogenous and exogenous attentional signals on motor programming. *Neuropsychological Trends*, 14, p. 26
- FALCIATI L.**, MAIOLI C. (2012). Nature of the implicit coupling between hand and eye motor systems during ocular tasks. *Acta Physiologica*, 206 (692), p. 95
- FALCIATI L.**, MAIOLI C. (2011). Task-dependent coupling between eye and hand motor systems: a Transcranial Magnetic Stimulation (TMS) study. *Archives Italiennes de Biologie. A Journal of Neuroscience*, 149, 3, p. 13
- FALCIATI L.**, MAIOLI C. (2009). *Neurofisiologia delle emozioni*. In C. Cristini & A. Ghilardi (Eds.) *Sentire e Pensare: Emozioni e apprendimento fra mente e cervello*. Springer-Verlag Italia
- FALCIATI L.**, GIANESINI T., MAIOLI C. (2008). Oculo-manual coupling during visually-guided saccades: A transcranial magnetic stimulation study. *Brain Stimulation*, Vol. 1 (3), p. 264
- GIANESINI T., **FALCIATI L.**, MAIOLI C. (2007). Oculo-manual coupling during smooth pursuit: A transcranial magnetic stimulation (TMS) study, *Perception*, 36, p.27
- FALCIATI L.**, GIANESINI T. & MAIOLI C. (2006). Coupling between eye and upper-limb motor systems: a Transcranial Magnetic Stimulation (TMS) study. *Acta Physiologica*, 188 (652), p. 13
- FALCIATI L.**, MARANGON M., MAIOLI C. (2006). The role of selective attention in spatial working memory. *Acta Physiologica*, 188 (652), p. 96
- FALCIATI L.**, TAGLIABUE M. (2006). Presenza e validità ecologica. *Giornale Italiano di Psicologia*, 33, p. 27
- TAGLIABUE M., **FALCIATI L.**, UMILTÀ C.A., MASSACCESI S. (2006). Compatibilità spaziale Stimolo-Meta e compatibilità spaziale Meta-Risposta in situazioni ecologiche. *Giornale Italiano di Psicologia*, 33, p. 143
- FALCIATI L.**, MAIOLI C. (2005). Selective attention and spatial working memory share a common neural substrate. *Proceedings of the 36th annual meeting of the Society for Neuroscience, SfN 2005, Washington DC, November 12-16, 2005*
- PANZERI M. & **FALCIATI L.** (2003). Percezione della voce di parlanti transessuali: requisiti acustici e percettivi per l'identificazione del genere. In Cosi P., Caldognetto Magno E. & Zamboni A. (Eds.) *Voce Canto e Parlato. Studi in onore di Franco Ferrero*. Unipress: Padova, Italy