

CURRICULUM VITAE

Mirta Fiorio

Born in Negrar, Verona, 31st May 1975

CURRENT POSITION

Post-doc research, Department of Neurological and Vision Sciences, Section of Rehabilitative Neurology, University of Verona. Via Casorati 43, 37131 Verona, Italy.
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Contract Lecturer for the year 2006/2007 in Physical and Rehabilitative Medicine at the Faculty of Motor Sciences, University of Verona.

MAIN RESEARCH TOPICS

Movement disorders, Motor learning, Body representation

EDUCATION

- 2005 Ph.D. in Psychological and Psychiatric Sciences, University of Verona.
Thesis title :: *“The body in the brain: Investigating the cortical representation of the body. Evidence from transcranial magnetic stimulation and patients with movement disorder”*. Supervisor: Prof. Salvatore M. Aglioti, University of Rome “La Sapienza” and Fondazione IRCCS Santa Lucia Rome.
- 2004 *Marie-Curie training fellowship*, University College of London, U.K.
Supervisor: Prof. Patrick Haggard, Institute of Cognitive Neuroscience and Department of Psychology, London.
- 2002 Licence to practice Psychology, University of Padua.

- 2000 - 2001 Postgraduate training, University of Verona.
- 2000 Degree (cum laude) in Psychology, University of Padua.
Thesis title: “*Temporal analysis of tactile, visual and cross-modal visuo-tactile stimuli in normal subjects and in patients affected by idiopathic dystonia*”.
Supervisor: Prof. Salvatore M. Aglioti
- 1997 *Erasmus Program Scholarship*, University of Wuerzburg, Germany.
- 1994 High School Degree (58/60) at the Liceo Scientifico “E.Medi” Garda, Verona.

INVITATIONS AND AWARDS

- 2004 “Best poster” at the *Touch-Temperature-Pain-Pleasure Meeting*, Manchester, 2-3 September 2004. Poster: Visual- tactile enhancement: a TMS study. Fiorio & Haggard.
- 2004 Invitation to the Symposium “The Body in the Brain” at the *British Psychological Society*, Manchester, 26-28 July 2004.
- 2006 “Best poster” at the *Congresso della Società Italiana di Neurologia*, Bari, 14-18 October 2004. Poster: Tactile temporal discrimination deficits in blepharospasm but not in hemifacial spasm. Fiorio, Tinazzi, Stanzani, Gambarin, Fiaschi, Moretto, Fabbrini, Berardelli.

TEACHING EXPERIENCES

Lesson on “*Sensory aspects in dystonia*” at the Second Degree Master “Diagnosis and therapy in movement disorders”, Academic Year 2005/2006, National Neurology Institute “C. Besta” Milan.

Contract Lecturer for the Academic Year 2006/2007 in Physical and Rehabilitative Medicine at the Faculty of Motor Sciences, University of Verona

“REFEREE” FOR THE FOLLOWING JOURNALS

Movement Disorders

Neuropsychologia

Cognitive Neuropsychology

European Journal of Neuroscience

PUBLICATIONS

M. Fiorio, M. Tinazzi, M. Prior, S.M. Aglioti. Discriminazione temporale ed integrazione cross-modale visuo-tattile in pazienti distonici. *Giornale Italiano di Psicologia* 2002;2:437-444.

M. Tinazzi, A. Fiaschi, E. Frasson, **M. Fiorio**, F. Cortese, S.M. Aglioti. Deficits of temporal discrimination in dystonia is independent from the spatial distance between the loci of tactile stimulation. *Mov Disord* 2002;17:333-338.

S.M. Aglioti, **M. Fiorio**, B. Forster, M. Tinazzi. Temporal discrimination of cross-modal and unimodal stimuli in generalized dystonia. *Neurology* 2003;60:782-5.

M. Fiorio, M. Tinazzi, L. Bertolasi, S.M. Aglioti. Alterations of temporal processing of tactile and visuo-tactile stimuli in writer’s cramp. *Ann Neurol* 2003;53:630-5.

M. Tinazzi, **M. Fiorio**, L. Bertolasi, S.M. Aglioti. Timing of tactile and visuo-tactile events is impaired in patients with cervical dystonia. *J Neurol* 2004;251:85-90.

M. Fiorio, P. Haggard. Viewing the body prepares the brain for touch: effects of TMS over somatosensory cortex. *Eur J Neurosci* 2005;22:773-777.

M. Tinazzi, C. Stanzani, **M. Fiorio**, N. Smania, G. Moretto, A. Fiaschi, M.J. Edwards, K.P. Bhatia, J.C. Rothwell. Temporal discrimination of two passive movements in human: a new psychophysical approach to assess kinaesthesia. *Exp Brain Res* 2005;166:184-9.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Selective impairment of hand mental rotation in patients with focal hand dystonia. *Brain* 2006;129:47-54.

M. Tinazzi, **M. Fiorio**, C. Stanzani, G. Moretto, N. Smania, A. Fiaschi, K.P. Bhatia, J.C. Rothwell. Temporal discrimination of two passive movements in writer's cramp. *Mov Disord* 2006;21:1131-5.

M. Garbarin, E.M. Valente, P. Liberini, G. Barrano, A. Bonizzato, A. Padovani, G. Moretto, B. Dallapiccola, **M. Fiorio**, A. Fiaschi, M. Tinazzi. Atypical phenotypes and clinical variability in a large Italian family with DYT1-Primary Torsion Dystonia. *Mov Disord* 2006; 21:1782-4.

M. Fiorio, M. Garbarin, E.M. Valente, P. Liberini, M. Loi, G. Cossu, G. Moretto, K.P. Bhatia, G. Defazio, S.M. Aglioti, A. Fiaschi, M. Tinazzi. Defective temporal processing of sensory stimuli in DYT1 mutation carriers: a new endophenotype of dystonia? *Brain*; 2007;130:134–142..

M. Fiorio, C. Stanzani, J.C. Rothwell, K.P. Bhatia, G. Moretto, A. Fiaschi, M. Tinazzi. Temporal discrimination of two passive movements in Parkinson's disease. *Neuroscience Letters*. In press.

M. Fiorio, M. Tinazzi, S. Ionta, A. Fiaschi, G. Moretto, M.J. Edwards, K.P. Bhatia, S.M. Aglioti. Mental rotation of body parts and objects: evidence from idiopathic cervical dystonia. *Neuropsychologia*. In press.

S. Ionta, A.D. Fourkas, **M. Fiorio**, S.M. Aglioti. The Influence of Hands Posture on Mental Rotation of Hands and Feet. *Exp Brain Res*. Under revision.

M. Fiorio, M. Tinazzi, C. Stanzani, M. Gambarin, A. Fiaschi, G. Moretto, G. Fabbrini, A. Berardelli. Tactile temporal discrimination deficits in blepharospasm but not in hemifacial spasm. Submitted.

NATIONAL AND INTERNATIONAL MEETINGS

M. Fiorio, M. Tinazzi, B. Forster, S.M. Aglioti. Discriminazione temporale di stimoli unimodali, tattili o visivi, e cross-modali visivi e tattili in pazienti distonici. Pisa, 5-7 December 2000 *VII Convegno Nazionale dei Giovani Cultori delle Neuroscienze*.

M. Fiorio, M. Tinazzi, B. Forster, S.M. Aglioti. Temporal discrimination of unimodal and cross-modal stimuli in dystonia. London, 25-27 April 2001 *Joint Meeting of the British Neuropsychological Society (BNS) and the Società Italiana di Neuropsicologia (SINP)*.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Higher-order and sensory dysfunctions in writer's cramp. Paris, 17-18 October 2002 *Société de Neuropsychologie de Langue Française (SNLF) et Società Italiana di Neuropsicologia (SINP)*.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Mental rotation of body parts in patients with focal hand dystonia and hemi-parkinson. New York, 30 March - 1 April 2003 *Cognitive Neuroscience Society*.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Rotazione mentale di parti del corpo in pazienti con crampo dello scrivano. Bologna, 16-17 May 2003 *Società Italiana di Neuropsicologia*.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Mental hand representation is impaired in patients with writer's cramp. Rome 11-15 October 2003 *XXXIV Congresso Società Italiana di Neurologia*.

M. Fiorio, M. Tinazzi, S.M. Aglioti. Mental rotation of hand is impaired in writer's cramp. Modena 18-20 April 2004 *First Congress of the European Neuropsychological Societies*.

M. Fiorio, P. Haggard. Visual-tactile enhancement: a TMS study. Barcelona 2-5 June 2004 *International Multisensory Research Forum*.

M. Fiorio, P. Haggard. How does vision of the body modulate tactile perception? Manchester 26-28 July 2004. *PsyPAG conference (British psychological society)*.

M. Fiorio, P. Haggard. Visual-tactile enhancement: a TMS study. Manchester 2-3 September 2004 *Touch-Temperature-Pain-Pleasure*.

M. Fiorio, P. Haggard. Effetto della stimolazione magnetica transcranica dell'area somatosensoriale primaria sull'interazione visuo-tattile. Sciacca (AG) 18-20 September 2004 *Associazione Italiana di Psicologia-Sessione Psicologia Sperimentale*.

C. Stanzani, **M. Fiorio**, N. Smania, G. Moretto, A. Fiaschi, M.J. Edwards, K.P. Bhatia, J.C. Rothwell, M. Tinazzi. Discriminazione temporale di due movimenti passivi nell'uomo: un nuovo approccio psicofisico per valutare la cinestesia. Rome 27-29 May 2005. *Società italiana di Neurofisiologia Clinica*.

M. Fiorio, C. Stanzani, N. Smania, G. Moretto, A. Fiaschi, M. Tinazzi. Within the somatosensory system: the role of cutaneous and proprioceptive inputs in temporal

discrimination of movement. Rovereto 5-8 June 2005. *International Multisensory Research Forum*.

M. Fiorio, M. Gambarin, E.M. Valente, P. Liberini, M. Loi, G. Cossu, G. Moretto, K.P. Bhatia, G. Defazio, S.M. Aglioti, A. Fiaschi, M. Tinazzi. Sensory functions in affected and unaffected carriers of the DYT1 gene mutation. Vienna 8-12 July 2006. *Forum of the European Societies of Neuroscience*.

M. Fiorio, M. Gambarin, E.M. Valente, P. Liberini, M. Loi, G. Cossu, G. Moretto, K.P. Bhatia, G. Defazio, S.M. Aglioti, A. Fiaschi, M. Tinazzi. Sensory deficits associated to dyt1 gene mutation: endophenotype of dystonia? Bari 14-18 October 2006. *Società Italiana di Neurologia*.

M. Fiorio, M. Tinazzi, C. Stanzani, M. Gambarin, A. Fiaschi, G. Moretto, G. Fabbrini, A. Berardelli. Tactile temporal discrimination deficits in blepharospasm but not in hemifacial spasm. Bari 14-18 October 2006. *Società Italiana di Neurologia*.

LANGUAGES

Italian, mother language.

English, good written and spoken.

German, good written and spoken.

INFORMATICS

DOS and WINDOWS.

Good knowledge: Word, Excel, PowerPoint, SPSS, MEL 2, E-Prime, Photo Shop.

Basic knowledge: LabView 7, STATISTICA, CorellDraw