

PERSONAL INFORMATION

Family name, First name: MORO VALENTINA

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<http://www.dfpp.univr.it/?ent=persona&id=2097&lang=it>

I started my research in 1995 at the Sacro Cuore Hospital in Negrar, Verona. Here, thanks to close collaboration with the Institute of Human Physiology (University of Verona), in particular with Prof. Giovanni Berlucchi and Prof. Salvatore Maria Aglioti, I participated in some research projects on attentional disorders and unilateral spatial neglect in brain damaged patients. During my PhD period (advisor Prof. Leonardo Chelazzi), my research also included the study of the neural basis of cerebral plasticity and its implications in the rehabilitation of patients affected by stroke or traumatic brain injury. Subsequently, my research issues have extended to the biological correlates of body and face visual perception and action discrimination and to their specific disorders after central and peripheral neurological lesions. In rehabilitation, my research aims to investigate awareness of pathology and the potential for recovery in various different clinical conditions in an interdisciplinary perspective. An important topic of my laboratory research (NPSY.Lab-VR) concerns body, space and action representations in healthy subjects and patients. I am the coordinator of an European Platform for Research in Spinal Cord Injury (SCI-Research. Group). In addition, my research focuses on the deficits of awareness in neurological diseases, for example after stroke, and in mental deterioration.

I have also been highly engaged in disseminating my research to the general public (e.g., Festival of Sciences), in Education of staff in Departments of Rehabilitation and Schools, in Education of patients relatives and caregivers. This is possible thanks to my educational path and associations with experts in other complementary domains (neurology, rehabilitation, education and anthropology).

EDUCATION

2004: PhD In Psychological and Psychiatric Sciences, University of Verona, advisor: prof. Leonardo Chelazzi

1999-2000: Post Degree Specialization Course in Psychopathology of Learning, University of Padova, advisor: prof. Daniela Lucangeli

1993-1997: B.A. and M.A. in Educational sciences, University of Verona, advisor: prof. F. Larocca

1985-1988: B.A. in Physiotherapy, University of Verona, advisor: Prof. Alessandro Cosentino

CURRENT POSITION(S)

2014- Present: Associate Professor in Psychobiology and Physiological Psychology (MPSI-02), at the Department of Philosophy, Education and Psychology University of Verona, Italy

PREVIOUS POSITIONS

2004 – 2014: Researcher in Psychobiology and Physiological Psychology (MPSI-02), with lecturing tasks at the Department of Philosophy, Education and Psychology University of Verona, Italy

2013: Visiting researcher at the University College of London, at the Clinical, Educational & Health Psychology Department, London, U.K. (2 months)

1994: Therapist in Neuropsychological Rehabilitation at Institute of Research in Rehabilitation (IRV), *Hoensbroek, Netherland (2 months)*

1991- 2003: Therapist in Neuropsychological Rehabilitation at Sacro Cuore Hospital, Negrar, Verona

1989-1991: Rehabilitation Therapist at the Center of Rehabilitation “La Nostra Famiglia” - Padova

1988: Rehabilitation Therapist at the Centre de Rééducation de Mongoumba - Republic Centrafricaine (6 months)

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2004 -Present: I am currently supervising 2 Ph.D students. I have successfully supervised 3 Ph.D student and 70 undergraduate (4 awards for the best regional theses of the year in Physiotherapy), 15 masters theses at University of Verona and Padova, Faculties of Medicine, Psychology and Educational Sciences and 3 post-degrees students. I have additionally provided day-to-day research supervision for two Postdoctoral Researcher (6 years) and for 9 neuropsychologists involved in my research projects (15 annual grants in total).

TEACHING ACTIVITIES

- 2015-Present: *Responsible of the course of Psychobiology in Educational contexts, Faculty of Educational Sciences, University of Verona*
- 2015-Present *Responsible of the course of Fundamental of Neurosciences, Faculty of Philosophical Sciences, University of Verona*
- 2010 -Present: *Responsible of the course of Methodology of cognitive rehabilitation, Faculty of Medicine, University of Verona, Italy, (Headquarters in Verona and Vicenza)*
- 2012 - 2015 *Responsible of the course of Psychobiology and Disability, Faculty of Educational Sciences, University of Verona*
- 2003 - 2013 *Responsible of the course of Psychobiology and Neuropsychology, Faculty of Educational Sciences, University of Verona*
- 2006 - 2009 *Responsible of the course of Psychobiology of Disability and Rehabilitation, Faculty of Educational Sciences, University of Verona*
- 2009 - 2011 *Responsible of the course of Cerebral Plasticity, Faculty of Educational Sciences, University of Verona*

ORGANISATION OF SCIENTIFIC MEETINGS

- 2015: Scientific Responsible: *Ritorno al futuro: antichi saperi e nuove frontiere nella riabilitazione* International meeting of Rehabilitation, Verona, November 5-6, Italy
- 2015: Responsible of the Symposium: *From the body to the brain: changes in body, space and action representations due to body disorders, at the 5th Conference of the Federation of the European Societies of Neuropsychology*, Tamere, Finland, 9-11 September 2015
- 2013: Responsible of the Symposium: *Frontal Disorders in MCI and Alzheimer's Disease: integrating clinical practice, experimental studies and neuroimaging data*, at the Società Italiana di Neuropsicologia (It. Soc. Neuropsychology), November, Milano, Italy
- 2012: Scientific Responsible: *Visual perception in Rehabilitation* at the Società Italiana di Medicina Fisica e Riabilitazione (It. Soc. Phisic Med. and Rehab), Verona, November, Italy
- 2010: Scientific Responsible: *The body in the brain* at the Società Italiana di Medicina Fisica e Riabilitazione (It. Soc. Phisic Med. and Rehab), November, Negrar, Verona, Italy
- 2007: Responsible of the Symposium: *Representation of Static and acting Bodies and identification of self as distinct from others* at the National Congress of the Società Italiana di Neuroscienze (Italian Society Neuroscience). September, Verona, Italy

INSTITUTIONAL RESPONSIBILITIES 2015 - Present Member of the Disciplinary Committee, University of Verona/Italy

- 2014-2015 Member of the Committee of the Società Italiana di Neuropsicologia (SINP) for the identification of the professional standards for neuropsychology
- 2013- Present Member of the Committee for Students Admission at the Master Degree course, Department of Philosophy, Education and Psychology University of Verona
- 2011-2015 Member of the Ethic Committee Department of Philosophy, Education and Psychology University of Verona
- 2004 - 2013 Member of the Faculty of Educational Sciences, University of Verona/ Italy
- 2004 - 2013 Graduate Student Advisor, Faculty of Educational Sciences, Psychology and Physioterapy, University of Verona and Padova, Italy
- 2011- Present: Director of the Laboratory of Neuropsychology (NPSY.Lab-Vr), Department of Philosophy, Pedagogy and Psychology, University of Verona, Italy
- 2012-Present: Member of the Center of Research in Applied Anthropology (CREAa) Department of Philosophy, Pedagogy and Psychology, University of Verona, Italy
- 2011-Present: Member of the teaching body for the International and European PhD Course in Psychology and Social Neuroscience (CoSan, La Sapienza University, Roma)
- 2008-2014: Director of the teaching body of the International Master's course in Psychomotricity.
- 2006-Present: Member of the Scientific Committee of the Master Course in Teaching of sensorial disabilities
- 2004-2009: Member of the teaching body for the PhD Course in Psychological and Psychiatric Science

COMMISSIONS OF TRUST (if applicable)

- 2011-Present: Reviews Editor, *RES* (Research and Study in Psychomotricity)
- 2014-Present: Director (with Riccardo Sartori) of the Series *Strumenti in Psicologia, Educazione e Formazione*, Seid Editore

- 2010-Present: Ad-hoc Reviewer, Grants: FIRB (Futuro in Ricerca” Program, Ministry of Education and University, Italy), PRIN (“Programmi di Ricerca di interesse Nazionale, Ministry of Education and University, Italy)
- 2009-Present: Ad-hoc Reviewer, Journals: *Neuroscience & Behavioral Reviews, Neuropsychologia, Cortex, Behavioural Neurology, NeuroRehabilitation and Neural Repairs, Cognitive Neurosciences, Current Alzheimer Research, Behavioural Brain Research,*

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2005 -Present Member, Società Italiana di Neuropsicologia (Italian Society of Neuropsychology, SINP)
- 2005 -Present Member, Federation of European Neuropsychology Societies (FENS)
- 2008 -Present Member, Società Italiana di Neuroscienze (Italian Society of Neuroscience, SINS)
- 2008 -Present Member, European Society of Neurosciences (ENS)

MAJOR INTERNATIONAL COLLABORATIONS: University La Sapienza, Roma (S.M.Aglioti); University College, London (Akaterini Fotopoulou); École polytechnique Fédérale, Lausanne (Olaf Blanke); Nimegen University (Luciano Fasotti), Université Paul Sabatier, Toulouse III (JM Albaret), CHUV-UNIL, Lausanne (Silvio Ionta)

CAREER BREAKS: Obligatory absence from work due to complications during pregnancy and maternity leave (From 13/9/2001 to 23/2/2004, (dates of birth: 13/5/2002 and 23/11/2003)

Publications

International publications.

- Scandola M, Aglioti SM; Pozeg P; Avesani R, **Moro V** (*in press*) Motor imagery in spinal cord injured people is modulated by somato-topic coding, perspective taking and post-lesional chronic pain. *Journal of Neuropsychology*
- Scandola M, Aglioti SM, Mignolli R, Avesani R, **Moro V** (*submitted*) Corporeal Illusions in Spinal Cord Injury, *Neurorehabilitation and neural repair*
- Scandola M, Aglioti SM, Mignolli R, Avesani R, **Moro V** (*in preparation*) Spinal cord lesions shrink the peripersonal space around the feet, passive mobilization of the paraplegic limbs restores it, *Scientific Reports*
- Moro V**, Pernigo S, Scandola M, Mainente M, Avesani R, Aglioti SM. (2015) Contextual bottom-up and implicit top-down modulation of anarchic hand syndrome: A single-case report and a review of the literature. *Neuropsychologia*. 2015 Nov;78:122-9.
- Pernigo S., Gambina G., Valbusa V., Condoleo MT., Broggio E. Beltramello A., Moretto G., **Moro V**. (2015) Behavioural and neural correlates of visual emotion discrimination and empathy in mild cognitive impairment. *Behavioural Brain Research*, 294:111-122.
- Gambina G, Valbusa V, Corsi N, Ferrari F, Sala F, Broggio E, Condoleo MT, Surdo V, Errera P, Cagnin AC, Moretto G, **Moro V**. (2015) The Italian Validation of the Anosognosia Questionnaire for Dementia in Alzheimer's Disease. *Am J Alzheimers Dis Other Demen*. 30(6):635-44.
- Moro V**, Scandola M, Bulgarelli C, Avesani R, Fotopoulou A. (2015) Error-based training and emergent awareness in anosognosia for hemiplegia. *Neuropsychol Rehabil*. Aug;25(4):593-616.
- Moro V**, Condoleo MT, Valbusa V, Broggio E, Moretto G, Gambina G. (2015) Cognitive stimulation of executive functions in mild cognitive impairment: specific efficacy and impact in memory. *Am J Alzheimers Dis Other Demen*. 2015 Mar;30(2):153-64.
- Besharati S, Kopelman M, Avesani R, **Moro V**, Fotopoulou AK. (2015) Another perspective on anosognosia: Self-observation in video replay improves motor awareness. *Neuropsychol Rehabil*.;25(3):319-52
- Canzano L, Scandola M, Pernigo S, Aglioti SM, **Moro V**. (2014) Anosognosia for apraxia: experimental evidence for defective awareness of one's own bucco-facial gestures. *Cortex*. Dec;61:148-57

- Gambina G, Bonazzi A., Valbusa V., Condoleo MT, Bortolami O., Broggio E., Sala F., Moretto G, **Moro V** (2014) Awareness of cognitive deficits and clinical competence in mild to moderate Alzheimer's disease: their relevance in clinical practice. *Neurological Sciences*, Mar;35(3):385-90.
- Scandola M., Tidoni E., Avesani R., Brunelli G., Aglioti SM. and **Moro V.**, Rubber hand illusion induced by touching the face ipsilaterally to a deprived hand: evidence for plastic 'somatotopic' remapping in tetraplegics *Frontiers in Human Psychology*, 2014 Jun 10;8:404. doi: 10.3389/fnhum.2014.00404. eCollection 2014.
- Moro V.** (2013) The interaction between implicit and explicit awareness in anosognosia: Emergent awareness. *Cognitive Neuroscience*. Sep-Dec;4(3-4):199-200.
- Garbarino S., Lanteri P., **Moro V.**, Pernigo S., Magnavita N., Chiorri C, Fenici R., Cuomo G. (2013) Dynamics of emotional unavoidable error monitoring in stress and no stress Police Special Force: an event-related potential associated with error processing (ERN) investigation. *Clinical Neurophysiology*, 124 (11): e196. DOI:10.1016/j.clinph.2013.06.060.
- Moro V.**, Pernigo S., Avesani R., Bulgarelli C., Urgesi C., Candidi M., Aglioti S.M. (2012) Visual Body recognition in a prosopagnosic patient. *Neuropsychologia*;50:104-117
- Pernigo S., **Moro V.**, Avesani R., Miattello C., Urgesi C., Aglioti S.M. (2012) Massive somatic deafferentation and motor deafferentation of lower limbs impair their visual recognition. A psychophysical study of patients with spinal cord injury. *European Journal of Neuroscience*. Vol. 36, pp. 3509-3518, 2012doi: 10.1111/j.1460-9568.2012.08266.x.
- Moro V.**, Condoleo MT, Sala F., Pernigo S., Moretto G, Gambina G. (2012) Cognitive stimulation in a-MCI: an experimental study. *Am J of Alzheimer disease and Other Dementias*; 27(2):121-130. (cit= 3)
- Moro V**, Pernigo S, Zapparoli P, Cordioli Z, Aglioti SM. (2011) Phenomenology and neural correlates of implicit and emergent motor awareness in patients with anosognosia for hemiplegia. *Behav Brain Res*. 20;225(1):259-69
- Moro V**, Berlucchi G, Aglioti SM. (2008) Selective deficit of mental visual imagery with intact primary visual cortex and visual perception. *Cortex*, 44(2):109-118. (citations excluded self-citations = 26)
- Moro V.**, Urgesi C., Pernigo S., Lanteri P., Pazzaglia M., Aglioti SM. (2008) The neural basis of body form and body action agnosia. *Neuron*, 60:235-246.
- Moro V**, Pernigo S., Urgesi C., Zapparoli P, Aglioti S.M. (2008) Finger recognition and gesture imitation in Gerstmann's Syndrome. *Neurocase* 15(1):13-23
- Urgesi C., **Moro V.**, Candidi M., Aglioti S.M. (2006) Mapping implied body actions in the human motor system. *Journal of Neuroscience*, 26 (30):7942-9.
- Peru A., **Moro V.**, Tellini P., Tassinari G. (2006) Suggestive evidence for an involvement of the right hemisphere in the recovery from childhood aphasia: a 3-year follow-up case study. *Neurocase*,12(3):179-90. (cit =2)
- Peru A., **Moro V.**, Sattibaldi L., Morgant JS, Aglioti SM. (2006) Gravitational influences on reference frames for mapping somatic stimuli in brain-damaged patients. *Exp. Brain Res.*, 169:145-152.
- Moro V.**, Zampini M., Aglioti SM (2004) Changes in spatial position of hands modify tactile extinction but not disownership of contralesional hand in two right brain damaged patients, *Neurocase*, 10(6):437-443.
- Berlucchi G **Moro V.**, Guerrini C., Aglioti A.M.(2004) Dissociation between tactile and taste extinction on the tongue after right brain damage. *Neuropsychologia*, 42 (8):1007-16. (cit = 7)
- Zampini M., **Moro V.**, Aglioti SM (2004) Illusory movements of the contralesional hand in patients with body image disorders. *Journal of Neurology, Neurosurgery and Psychiatry*, 75 (11):1626-1628. (cit= 8)
- Peru A., Beltramello A., **Moro V.**, Sattibaldi L. , Berlucchi G. (2003) "Temporary and permanent signs of interhemispheric disconnection after traumatic brain injury" - *Neuropsychologia*, 41 (5), 634-643. (cit= 22)
- Aglioti S., Smania N., **Moro V.**, Peru A.(1998) Tactile salience influences extinction" *Neurology*, 50 :1010-1014. (cit= 11)
- Peru A., **Moro V.**, Avesani R., Aglioti S. (1997) Influence of perceptual and semantic conflicts between the two halves of chimeric stimuli on the expression of visuo-spatial neglect" *Neuropsychologia*, 35:283-589. (cit = 11)
- Peru A., **Moro V.**, Avesani R. Aglioti S. (1997) Overt and covert processing of left side information in neglect patients investigated with chimeric drawings." *Journal of Clinical and Experimental Neuropsychology*, 18(5): 621-630. (cit=10)

Italian publications (selected)

- Bertagnoli S., **Moro V.**, Avesani R. Anosognosia per emiplegia: Osservazione clinica e analisi delle lesioni per la progettazione dell' intervento riabilitativo. Atti del VII convegno: Tesi verso il Futuro: il contributo dei giovani fisioterapisti per lo sviluppo della professione. Colombini C., Quinci A., Risso T (a cura di), Venezia 28 febbraio 2015, pp.281-288.
- **Moro V.**, Dall' Ora Claudia, Scandola M, Piasere L., La reinvenzione del quotidiano nei tetraplegici), (in press) *Antropologia Medica*
- Moro V.** (2011) Plasticità cerebrale e recupero delle abilità linguistiche: il caso della lettura. *ReS*, XIX (3): 24-29.
- **Moro V.**. (2010) Alla base dell' apprendimento: la plasticità sinaptica. *Scuola Italiana Moderna*, 6 (118): XIII
- **Moro V.** (2010) Plasticità cerebrale: implicazioni educative. *Scuola Italiana Moderna*, 2 (118): XIII
- **Moro V.** (2010) Plasticità cerebrale: tra natura e cultura. *Scuola Italiana Moderna*, 1 (118): 16.
- Moro V.**, Avesani R., Cristofoli G, Pezzini F., Pernigo S. (2009)La rappresentazione corporea dopo grave danno cerebrale, *Quaderni DIPAV*, 26,113-134
- Moro V.** (2008) La riorganizzazione del movimento tra lesione e plasticità cerebrale. *ReS*, XV (3): 14-20.
- Pernigo S., **Moro V.** (2008) Alterazioni della rappresentazione corporea: dati clinici e risultati sperimentali. *Giornale Italiano di Psicologia*, 4, 825-856.
- Ongaro A., **Moro V.** (2008)La realtà virtuale: un possibile strumento riabilitativo nelle sindromi disesecutive. Numero monografico - *Riabilitazione Oggi*, giugno.
- **Moro V.**, Pernigo S. (2006) Il contributo della neuropsicologia: disturbi dello schema corporeo in seguito a lesioni cerebrali. *Quaderni DIPAV*. Ed. Franco Angeli, pp.9-34.
- **Moro V.**, Pernigo S. (2006) Uno scienziato illusionista: teorie ed ipotesi intorno all'idea di schema corporeo. *Quaderni DIPAV*. Ed. Franco Angeli,pp. 147-175.
- **Moro V.**, Berlucchi G, Aglioti S.M. (2002) Disturbi selettivi dell' immaginazione mentale visiva in una paziente con lesione temporo-occipitale sinistra- *Giornale Italiano di Psicologia*, n.4 Dic 2002 pp. 849-856.
- Bueti D. , **Moro V.** , Aglioti S.M. Aspetti spazio-temporali dell'estinzione unimodale e cross-modale visuotattile in pazienti cerebrolesi destri. *Giornale Italiano di Psicologia*, n. 4, Nov. 2001, pp. 865-871.

Books and book chapters

- **Moro V.** (2015)Body representations and body awareness. The contribution of cognitive neuroscience. In: Louková, Hatlova and Damamkova Segard (Eds).: *Psychomotor Therapy*, Jan Evangelista Purkyně University in Usti nad Labem, Czech Republic, ISBN.978-80-7414-907-8
- Quadri G, Colella R., Boscaini F., **Moro V.**, Albaret JM (2015) Il test della coordinazione motoria di Charlop-Atwell: la standardizzazione Italiana, Seid Editore, Firenze
- **Moro V.**, Rodolfi C., (2012) Tornare a scuola dopo una grave cerebrolesione acquisita. SEID Editore, Firenze.
- **Moro V.**, Filippi B., (2010) La plasticità cerebrale: alle radici del cambiamento. SEID Editore, Firenze .
- **Moro V.** (2009) Plasticità cerebrale ed invecchiamento: quali possibilità per la memoria dell' anziano? In Gecchele M. (a cura di): *Il segreto della vecchiaia: una stagione da scoprire*, FrancoAngeli.
- **Moro V.** (2005) *L' agire educativo nella riabilitazione neuropsicologica*. Ed. Franco Angeli.

Selected Invited Talks:

École polytechnique Fédérale, Lausanne (2014); University La Bicocca, Milan, Italy (2013) European Society of Neuropsychology, Berlin, Germany (with peer review, 2013); University la Sapienza , Rome, Italy (European PhD CoSAN, 2012); Convegno Scientifico Regionale AIFI VENETO, Vicenza, Italy (2010); Second National Meeting Nazionale AINp, Rimini, Italy(2009); Institut Superior de Reeducation Psychomotrice, Paris, France (2009)

Prizes and Awards

- 2014: Prize “Miglior Tesi di laurea in Fisioterapia del Triveneto” First Prize, Student: Rosanna Mignolli
- 2013: Prize “Miglior Tesi di laurea in Fisioterapia del Triveneto” Third Prize, Student: Anna Scaia
- 2013: Prize “Miglior Tesi di laurea in Fisioterapia del Triveneto” First Prize, Student: Sara

Bertagnoli

- 2013 : Excellence for the three publications selected for the National Evaluation of the Quality of Research (VQR) Award received from the Ministry of Education, University and Research, Italy.
- 2010 : Excellence for one publication selected by the University Committee for evaluation of research (CIVR). Award received from University of Verona, Italy.
- 2009 : Excellence for two publications selected by the University Committee for evaluation of research (CIVR). Award received from University of Verona, Italy.