

## Curriculum Vitae et Studiorum

**Giorgia Committeri**

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Date of birth: 14/04/1974

Nationality: Italian

### ✓ POSITION

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#### **Associate Professor of Psychobiology**

University: "G. d'Annunzio" (Chieti)

Department: Neuroscience and Imaging

### ✓ EDUCATION

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**Phd:** Cognitive Neuroscience

Date: April 2003 University: "La Sapienza" (Rome)

**Degree:** Psychology

Mark: 110/110 and *magna cum laude*

Date: December 1998 University: "La Sapienza" (Rome)

### ✓ COLLABORATIONS

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- Attention and Brain Recovery Lab, Washington University School of Medicine in St. Louis, USA
- Laboratoire de Physiologie de la Perception et de l'Action (LPPA), Collège de France, Paris - France
- U280. Mental processes and brain activation, Lyon - France
- INSERM U836, Grenoble Institute of Neurosciences, Grenoble, France
- Laboratory of Neurophysiology and Neuroanatomy of the Visuo-Motor Systems, Università di Bologna - Italy
- Santa Lucia Foundation (IRCCS), Roma – Italy
- Neuromed (IRCCS), Pozzilli, Italia
- Behavioral Imaging and Neural Dynamics Center (BIND), Università di Chieti, Italia

### ✓ MAIN RESEARCH AREAS

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- Neural basis of spatial cognition
- Neural basis of sensorimotor transformations
- Anatomico-clinical correlation in brain-damaged patients
- Functional mapping of dorsal stream areas
- Cognitive and neural representation of action
- Cortical plasticity

### ✓ EDITORIAL ACTIVITY

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Peer reviewer for the following international journals:

Brain, Neuropsychologia, Neuroimage, Human Brain Mapping, Psychiatry Research, Cortex

Peer reviewer for the following international Institutions:

Agence Nationale de la Recherche (ANR); Medical Research Council (MRC); Research Foundation – Flanders (FWO)

### ✓ RESEARCH GRANTS:

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2005-2012 Grants from University G. d'Annunzio

2009-2010. PRIN 2008PBT985\_002 Italian Ministry of Research - Functional and structural neuroimaging of the human medial parieto-occipital cortex (MPOc)

2007-2008 PRIN 2006055034\_002 Italian Ministry of Research - Functional neuroimaging of sensory-motor transformations in human dorso-medial posterior parietal cortex

### ✓ PUBLICATIONS IN SCIENTIFIC, PEER-REVIEWED JOURNALS

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1. Vastano R, Sulpizio V, Steinisch M, Comani S & Committeri G (2014) Embodied and disembodied allocentric simulation in high schizotypal subjects. *Exp Brain Res* May 28. [Epub ahead of print] DOI: 10.1007/s00221-014-3991-0
2. Tosoni A, Corbetta M, Committeri G, Calluso C, Pezzulo G, Romani G, Galati G. Decision and action planning signals in human posterior parietal cortex during delayed perceptual choices. *European Journal of Neuroscience* (2014) doi: 10.1111/ejn.12511. [Epub ahead of print]
3. Pitzalis S, Sereno MI, Committeri G, Fattori P, Galati G, Tosoni A, Galletti C. The Human Homologue of Macaque Area V6A. (2013) *Neuroimage* 82:517-30.
4. Ciavarro M, Ambrosini E, Tosoni A, Committeri G, Fattori P, Galletti C. rTMS of Medial Parieto-occipital Cortex Interferes with Attentional Reorienting during Attention and Reaching Tasks. (2013) *J Cogn Neurosci* 25(9):1453-62
5. Pitzalis S, Sdoia S, Bultrini A, Committeri G, Di Russo F, Fattori P, Galletti C, Galati G. Selectivity to translational egomotion in human brain motion areas. (2013) *PLoS One* 8(4):e60241. doi: 10.1371/journal.pone.0060241.
6. Notturmo F, Sepe R, Caulo M, Unicini A, Committeri G (2013) Pseudocortical and dissociate discriminative sensory dysfunction in a thalamic stroke. *Cortex* 49(1):336-9 (Epub 2012)
7. Sulpizio V, Committeri G, Lambrey S, Berthoz A, Galati G. (2013) Selective role of lingual/parahippocampal gyrus and retrosplenial complex in spatial memory across viewpoint changes relative to the environmental reference frame. *Behav Brain Res.* 242:62-75. (Epub 2012)
8. Ambrosini E, Ciavarro M, Pelle G, Perrucci MG, Galati G, Fattori P, Galletti C, Committeri G. (2012) Behavioral investigation on the frames of reference involved in visuomotor transformations during peripheral arm reaching. *PLoS One* 7(12):e51856.
9. Baldassarre A, Lewis C, Committeri G, Snyder AZ, Romani GL, Corbetta M. (2012) Individual variability in functional connectivity predicts performance of a perceptual task. *PNAS* 109(9):3516-21. Cit.19
10. Bastin J, Committeri G, Kahane P, Galati G, Minotti L, Lachaux JP, Berthoz A. (2013) Timing of posterior parahippocampal gyrus activity reveals multiple scene processing stages. *Human Brain Mapping* 34(6):1357-70. (Epub 2012)
11. Galati G, Committeri G, Pitzalis S, Pelle G, Patria F, Fattori P, Galletti C. (2011) Intentional signals during saccadic and reaching delays in the human posterior parietal cortex. *Eur J Neurosci* 34(11):1871-85. Cit 11
12. Steinisch M, Sulpizio V, Iorio AA, Di Naccio A, Haueisen J, Committeri G, Comani S. (2011) A virtual environment for egocentric and allocentric mental transformations: a study on a nonclinical population of adults with distinct levels of schizotypy. *Biomed Tech (Berl)* 56(5):291-9.
13. Costantini M, Committeri G, Sinigaglia C. (2011) Ready both to your and to my hands: mapping the action space of others. *PLoS One* 6(4):e17923. Cit. 8
14. Busiello M, Costantini M, Galati G, Committeri G. (2011) Sensory-motor interference abolishes repetition priming for observed actions, but not for action-related verbs. *Neurosci Lett.* 492(2):89-93.
15. Costantini M, Ambrosini E, Tieri G, Sinigaglia C, Committeri G. (2011) Where does an object trigger an action? An investigation about affordances in space. *Exp Brain Res.* 207(1-2):95-103. Epub 2010 Oct 8. Cit 18
16. Landgraf S, Krebs MO, Olié JP, Committeri G, van der Meer E, Berthoz A, Amado I. (2011) Real world referencing and schizophrenia: are we experiencing the same reality? *Neuropsychologia* 48(10):2922-30.
17. Galati G, Pelle G, Berthoz, A, Committeri G, 2010. Multiple reference frames used by the human brain for spatial perception and memory. *Exp Brain Res.* 206(2):109-20. Cit 33
18. Pitzalis S, Sereno MI, Committeri G, Fattori P, Galati G, Patria F, Galletti C., 2010. Human V6: The Medial Motion Area. *Cerebral Cortex.* 20(2):411-424. Cit 41
19. Lewis CM, Baldassarre A, Committeri G, Romani GL, Corbetta M. 2009 Learning sculpts the spontaneous activity of the resting human brain. *Proc Natl Acad Sci U S A,* 106(41):17558-63. Cit. 128
20. Caulo M, Briganti C, Notturmo F, Committeri G, Mattei PA, Tartaro A, Gallucci M, Uncini A, 2009. Non-Alcoholic Partially Reversible Marchiafava-Bignami Disease: Review and Relation with Reversible Splenial Lesions. A Case Report and Literature Review. *The Neuroradiology Journal,* 22: 35-40.
21. Iaria G, Palermo L, Committeri G, Barton JJ, 2009. Age differences in the formation and use of cognitive maps. *Behavioral Brain Research,* 195(2):187-91.

22. Costantini M, Committeri G, Galati G, 2008. Effector- and target-independent representation of observed actions: evidence from incidental repetition priming. *Experimental Brain Research*, 188(3):341-51. IF: 2,027.
23. Galati G, Committeri G, Spitoni G, Aprile T, Di Russo F, Pitzalis S, Pizzamiglio L., 2008. A Selective Representation of the Meaning of Actions in the Auditory Mirror System. *Neuroimage*, 40(3):1274-86. Cit. 62
24. Iaria G, Committeri G, Pastorelli C, Pizzamiglio L, Watkins KE, Carota A, 2008. Neural activity of the anterior insula in emotional processing depends on the individuals' emotional susceptibility. *Human Brain Mapping*, 29(3):363-73.
25. Committeri G, Pitzalis S, Galati G, Patria F, Pelle G, Sabatini U, Castriota-Scanderbeg A, Piccardi L, Guariglia C, Pizzamiglio L, 2007. Neural bases of personal and extrapersonal neglect in humans. *Brain*, 130: 431-441.
26. Pitzalis S, Galletti C, Huang R-S, Patria F, Committeri G, Galati G, Fattori P, Sereno MI, 2006. Wide-field retinotopy reveals the human cortical visual area V6. *Journal of Neuroscience*, 26(30):7962-73.
27. Di Russo F, Committeri G, Pitzalis S, Spitoni G, Piccardi L, Galati G, Catagni M, Nico D, Guariglia C, Pizzamiglio L, 2006. Cortical Plasticity Following Surgical Extension of Lower Limbs. *Neuroimage*, 30(1):172-183.
28. Mainy, N., Jung, J., Committeri, G., Berthoz, A., Baciú, M., Minotti, L., Hoffmann, D., Kahane, P., Bertrand, O., Lachaux, J.P., 2006. The timing of neural processes in humans: beyond the evoked potentials.. *Chaos and complexity letters*, 2(2), pp 10-15.ISSN:1555-3995.
29. Castriota-Scanderbeg A, Hagberg G, Cerasa A, Committeri G, Galati G, Patria F, Pitzalis S, Caltagirone C, Frackowiak R, 2005. The appreciation of wine by sommeliers: a functional magnetic resonance study of sensory integration. *Neuroimage*, 25(2):570-578.
30. Committeri G, Galati G, Paradis A-L, Pizzamiglio L, Berthoz A, LeBihan D, 2004. Reference frames for spatial cognition: different brain areas are involved in viewer-, object-, and landmark-centered judgements about object location. *Journal of Cognitive Neuroscience*, 16(9): 1517-1535.
31. Committeri G, Galati G, Pizzamiglio L, Paradis A-L, LeBihan D, Berthoz A, 2004. Retrosplenial and ventromedial occipital-temporal regions are specialized for environment-centered spatial judgements. *Biomedizinische Technik (Berl)*, 48(2): 217-220.ISSN: 0939-4990.
32. Galati G, Committeri G, Sanes JN, Pizzamiglio L, 2001. Spatial coding of visual and somatic sensory information in body-centered coordinates. *European Journal of Neuroscience*, Aug;14(4):737-46.
33. Pizzamiglio L, Galati G, Committeri G, 2001. The contribution of functional neuroimaging to recovery after brain damage: A review. *Cortex*, 37(1):11-31.
34. Pizzamiglio L, Committeri G, Galati G, Patria F, 2000. Psychophysical properties of line bisection and body midline perception in unilateral neglect. *Cortex*, 36(4):469-84.