

# Curriculum Vitae

## Carlo Sestieri

Nationality Italian  
Date of Birth May 11<sup>th</sup> 1979  
Place of Birth Roma, Italy  
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**Actual Position** Assistant Professor  
M-PSI/02 Psychobiology and Physiological Psychology  
Dept. of Neuroscience, Imaging and Clinical Sciences  
University G. d'Annunzio of Chieti-Pescara, Italy

### **Academic history**

2011-2015 Post Doctoral Research Fellow under the P.O. F.S.E. 2007-2013 program,  
Department of Neuroscience, Imaging and Clinical Sciences;  
University G. d'Annunzio of Chieti-Pescara, Italy  
2007-2010 Post Doctoral Research Fellow, Dept. of Neuroscience and Imaging,  
University G. d'Annunzio of Chieti-Pescara, Italy  
2004-2006 PhD in "*Functional Neuroimaging: from Cells to Systems*"  
Department of Clinical Science e Bioimages, University G. d'Annunzio of  
Chieti-Pescara, Italy; Tutor: Prof. Cosimo Del Gratta  
1998-2003 University Degree in "*General and Experimental Psychology*"  
University of Roma "La Sapienza", Roma, Italy; Advisor: Prof. Marta  
Olivetti Belardinelli; 110/110 cum laude

### **Research periods abroad**

2007 – 2010 Visiting Researcher  
Dept. of Neurology; Washington University School of Medicine, St. Louis,  
MO, USA; Supervisor: Prof. Maurizio Corbetta  
Mar.–Dec. 2006 Visiting Exchange PhD Student  
Dept. of Neurology, Washington University School of Medicine, St. Louis,  
MO, USA; Supervisor: Prof. Maurizio Corbetta  
Oct.2001-Mar.2002 Visiting Exchange Student (Erasmus Project)  
Dept. of Psychology; University of Essex, Colchester, UK,  
Supervisor: Prof. Marta Olivetti Belardinelli

### **Didactical experience**

2015-present Assistant Professor for the course of "Developmental Cognitive  
Neuroscience" (48 hours, 6 CFU), Master Degree in Psychology, University  
G. d'Annunzio of Chieti-Pescara, Italy  
2010 – 2013 Contract Professor for the course of "Methods of neuro-psycho-physiological  
investigations" (48 hours, 6 CFU), Faculty of Psychology,  
University G. d'Annunzio of Chieti-Pescara, Italy  
2010 Contract Professor for the course of "General Psychology" (16 hours, 2 CFU),  
Faculty of Psychology, University G. d'Annunzio of Chieti-Pescara, Italy

### **Referee's Activity**

2007-present	Ad-hoc Reviewer for NeuroImage, Journal of Neuroscience, Cognitive Processing, Cortex, Cerebral Cortex, PLoS1, Neuropsychologia, Journal of Cognitive Neuroscience
2013-present	Member of Frontiers Editorial Board, Reviewing Editor

### **Membership of scientific organizations**

2005 - present	Member of the Organization for the Human Brain Mapping (OHBM)
2007 - 2010	Member of the Society for Neuroscience (SfN)

### **Fellowships and Awards**

2014	National Scientific Qualification for Associate Professors
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### **Bibliometric indices (Scopus)**

Articles Published	29
Total Citations	648
H-Index	14

### **Publications**

#### **Articles in international peer-reviewed journals:**

1. Spadone S, **Sestieri C**, Baldassarre A, Capotosto P. Temporal dynamics of TMS interference over preparatory alpha activity during semantic decisions. *Sci Rep*. 2017 May 24;7(1):2372.
2. **Sestieri C**, Shulman GL, Corbetta M. The contribution of the human posterior parietal cortex to episodic memory. *Nat Rev Neurosci*. 2017 Feb 17;18(3):183-192.
3. Tosoni A, Guidotti R, Del Gratta C, Committeri G, Sestieri C. Preferential coding of eye/hand motor actions in the human ventral occipito-temporal cortex. *Neuropsychologia*. 2016 Dec;93(Pt A):116-127.
4. Capotosto P, Baldassarre A, **Sestieri C**, Spadone S, Romani GL, Corbetta M. Task and Regions Specific Top-Down Modulation of Alpha Rhythms in Parietal Cortex. *Cereb Cortex*. 2016 Sep 6. [Epub ahead of print]
5. Piervincenzi C, Petrilli A, Marini A, Caulo M, Committeri G, **Sestieri C**. Multimodal assessment of hemispheric lateralization for language and its relevance for behavior. *Neuroimage*. 2016 Aug 10. [Epub ahead of print]
6. Navarra R, **Sestieri C**, Conte E, Salomone R, Mattei PA, Romani GL, Domizio S, Caulo M. Perinatal MRI diffusivity is related to early assessment of motor performance in preterm neonates. *Neuroradiol J*. 2016 Apr;29(2):137-45.
7. Pravatà E, Zecca C, **Sestieri C**, Caulo M, Riccitelli GC, Rocca MA, Filippi M, Cianfoni A, Gobbi C. Hyperconnectivity of the dorsolateral prefrontal cortex following mental effort in multiple sclerosis patients with cognitive fatigue. *Mult Scler*. 2016 Nov;22(13):1665-1675.
8. Spadone S, Della Penna S, **Sestieri C**, Betti V, Tosoni A, Perrucci MG, Romani GL, Corbetta M. Dynamic reorganization of human resting-state networks during visuospatial attention. *Proc Natl Acad Sci U S A*. 2015 Jun 16. pii: 201415439. Epub ahead of print
9. Capotosto P, Spadone S, Tosoni A, Sestieri C, Romani GL, Della Penna S, Corbetta M. Dynamics of EEG rhythms support distinct visual selection mechanisms in parietal cortex: a simultaneous transcranial magnetic stimulation and EEG study. *Capotosto P, Spadone S, J Neurosci*. 2015 Jan 14;35(2):721-30.
10. **Sestieri C**, Tosoni A, Mignogna V, McAvoy MP, Shulman GL, Corbetta M, Romani GL. Memory accumulation mechanisms in human cortex are independent of motor intentions. *The Journal of Neuroscience*, 2014 May 14;34(20):6993-7006.
11. Pravatà E, **Sestieri C**, Colicchio G, Colosimo C, Romani GL, Caulo M. Functional connectivity MRI and post-operative language performance in temporal lobe epilepsy: initial experience. *The Neuroradiology Journal*. 2014 Apr 30;27(2):158-62.
12. **Sestieri C**, Corbetta M, Spadone S., Romani GL, Shulman GL. Domain-general Signals in the Cingulo-occipular Network for Visuospatial Attention and Episodic Memory. *Journal of Cognitive Neuroscience*, 2014, 26(3):551-68
13. Tagliamonte M, **Sestieri C**, Romani GL, Gallucci M, Caulo M. MRI anatomical variants of mammillary bodies. *Brain Structure and Function*, 2013 Sep 27. [Epub ahead of print]
14. Capotosto P, Tosoni A, Spadone S, **Sestieri C**, Perrucci MG, Romani GL, Della Penna S, Corbetta M. Anatomical segregation of visual selection mechanisms in human parietal cortex. *The Journal of Neuroscience*, 2013, 33(14):6225-9.

15. **Sestieri C**, Capotosto P, Tosoni A, Romani GL, Corbetta M. Interference with episodic memory retrieval following transcranial stimulation of the inferior but not the superior parietal lobule. *Neuropsychologia*, 2013, 51(5):900-6.
16. de Pasquale F, Sabatini U, Della Penna S, **Sestieri C**, Caravasso CF, Formisano R, Péran P. The connectivity of functional cores reveals different degrees of segregation and integration in the brain at rest. *Neuroimage*, 2013, 69:51-61.
17. Briganti C, **Sestieri C**, Mattei PA, Esposito R, Galzio RJ, Tartaro A, Romani GL, Caulo M. Reorganization of functional connectivity of the language network in patients with brain gliomas. *American Journal of Neuroradiology* 2012, 33(10):1983-90.
18. Caulo, M, Esposito R, Mantini D, Briganti C, **Sestieri C**, Mattei PA, Colosimo C, Romani GL, Tartaro A. Comparison of hypothesis- and a novel hybrid data/hypothesis-driven methods of fMRI analysis in patients with brain gliomas. *American Journal of Neuroradiology*, 2011, 32(6):1056-64.
19. **Sestieri C**, Corbetta M, Romani GL, Shulman GL. Episodic memory retrieval, parietal cortex, and the Default Mode Network: functional and topographic analyses. *The Journal of Neuroscience*, 2011, 31(12):4407-20.
20. Pravata' E, **Sestieri C**, Mantini D, Briganti C, Colicchio G, Marra C, Colosimo C, Tartaro A, Romani GL, Caulo M. Functional Connectivity MR Imaging of the Language Network in Patients with Drug-Resistant Epilepsy. *American Journal of Neuroradiology*, 2011 32(3):532-40.
21. **Sestieri C**, Shulman GL, Corbetta M. Attention to memory and the environment: functional specialization and dynamic competition in human posterior parietal cortex. *The Journal of Neuroscience*, 2010, 30(25):8445-8456.
22. Londei A, D'Ausilio A, Basso D, **Sestieri C**, Del Gratta C, Romani GL, Olivetti Belardinelli M. Sensory-motor brain network connectivity for speech comprehension. *Human Brain Mapping* 2010, 31(4):567-580.
23. Olivetti Belardinelli M, Palmiero M, **Sestieri C**, Nardo D, Di Matteo R, Londei A, D'Ausilio A, Ferretti A, Del Gratta C, Romani GL. An fMRI investigation on image generation in different sensory modalities: the influence of vividness. *Acta Psychologica (Amst)* 2009, 132(2):190-200.
24. **Sestieri C**, Pizzella V, Cianflone F, Romani GL, Corbetta M. Sequential activation of human oculomotor centers during planning of visually-guided eye movements: a combined fMRI-MEG study. *Frontiers in Human Neuroscience* 2009, 1(1): 1-8.
25. **Sestieri C**, Sylvester CM, Jack AI, d'Avossa G, Shulman GL, Corbetta M. Independence of anticipatory signals for spatial attention from number of nontarget stimuli in the visual field. *Journal of Neurophysiology* 2008, 100(2): 829–838.
26. Londei A, D'Ausilio A, Basso D, **Sestieri C**, Del Gratta C, Romani GL, Olivetti Belardinelli M. Brain network for passive word listening as evaluated with ICA and Granger causality. *Brain Research Bulletin* 2007, 72(4-6):284–292.
27. **Sestieri C**, Di Matteo R, Ferretti A, Del Gratta C, Caulo M, Tartaro A, Olivetti Belardinelli M, Romani GL. “What” versus “Where” in the audiovisual domain: An fMRI study. *Neuroimage* 2006, 33(2):672-80.
28. Avons SE, **Sestieri C**. Dynamic visual noise: No interference with short-term memory or the construction of visual images. *European Journal of Cognitive Psychology* 2005, 17:405-424.
29. Olivetti Belardinelli M, **Sestieri C**, Di Matteo R, Delogu, F, Del Gratta C, Ferretti A, Caulo M, Tartaro A, Romani GL. Audio-visual crossmodal interactions in environmental perception: an fMRI investigation. *Cognitive Processing* 2004, 5(3):167-174.

### **Book Chapters:**

1. Caulo M, Briganti C, **Sestieri C**. Cap. 1 Anatomia funzionale dell'encefalo. In: Colosimo C. *L'essenziale in Neuroradiologia*. Milano: Elsevier Italia, ISBN: 9788821429095 in press.
2. **Sestieri C**, Shulman GL, Corbetta M.. Orienting to the Environment: Separate Contributions of Dorsal and Ventral Frontoparietal Attention Networks. In: *Neuroscience of Attention: Attentional Control and Selection*. Oxford University Press, 2011.

### **Computer Skills**

Expert knowledge of E-Prime, Statistica, SPSS, Brain Voyager, Fidl, Caret

### **Foreign languages**

Excellent knowledge of written and spoken English

Chieti, November 7<sup>th</sup> 2017

Signed

