

Curriculum Vitae
Cecilia Guariglia

Nata a Salerno il 14/05/1959.

Professore Universitario di I fascia Settore Concorsuale 11/E1 – Psicologia Generale, Psicobiologia e Psicometria; S.S.D. M-PSI/02 – Psicobiologia e Psicologia Fisiologica Dipartimento di Psicologia dell'Università di Roma La Sapienza

Formazione

1984: Laurea (V.O.) in Psicologia - Università la Sapienza

1991: PhD in Neuropsicologia - Università La Sapienza

Esperienze lavorative

1991- 1993: consulente neuropsicologia clinica presso IRCCS Fondazione Santa Lucia - Roma 1994 - 1996: ricercatore Sezione di Neuropsicologia - IRCCS Fondazione Santa Lucia - Roma. 1996-1998: ricercatore S.S.D. M-PSI/02 - 02 - Psicobiologia e Psicologia Fisiologica - Dipartimento di Psicologia - Università La Sapienza di Roma.

1998-2006: Professore Associato S.S.D. M-PSI/02 - Psicobiologia e Psicologia Fisiologica- Dipartimento di Psicologia - Università La Sapienza di Roma.

2006-presente: Professore Ordinario S.S.D. M-PSI/02 - Psicobiologia e Psicologia Fisiologica- Dipartimento di Psicologi - Dipartimento di Psicologia - Università La Sapienza di Roma

Incarichi accademici.

2000-presente: membro del Collegio Docenti del Dottorato di Ricerca in Neuroscienze del Comportamento (già Dottorato di Ricerca in Neuroscienze Cognitive)

2000-2010: membro della commissione dell'Università La Sapienza di Roma.

2006- presente: membro del collegio docenti del Dottorato di Ricerca in Neuroscienze del Comportamento (già Neuroscienze Cognitive).

2008-2012: Presidente del CdLM in "Neuroscienze Cognitive e Riabilitazione Psicologica".

2010-2016: membro della Giunta di Dipartimento - Dipartimento di Psicologia - Università La Sapienza di Roma.

2012-2013: membro della Commissione ASN Settore Concorsuale 11E/1.

2012-2018: Direttore della Scuola di Specializzazione in Neuropsicologia.

2019-presente: Coordinatore del Dottorato di Ricerca in Neuroscienze del Comportamento

Finanziamenti su bandi competitivi:

2004-2007: Coordinatore Nazionale Eu 6th NEST Pathfinder Project: Wayfinding nr12959

2007-2009: Coordinatore Locale PRIN 2007 (MIUR, Italy)

2012-2016: Coordinatore Locale PRIN 2010-11 (MIUR, Italy)

2014: Coordinatore Progetto Ateneo Sapienza

2015: Coordinatore Progetto Ateneo Sapienza

2016: Coordinatore Progetto Ateneo Sapienza

2017: Coordinatore Progetto KANT – Fondazione ANIA

2017: Coordinatore Progetto Ateneo Sapienza

2019: Coordinatore Progetto Ateneo Sapienza

Aree di ricerca

1. Visual mental imagery
2. Space cognition and memory
3. Neuropsicologia della navigazione ambientale
4. Differenze individuali e di genere
5. Disturbi della cognizione e rappresentazione spaziale in corso di cerebrolesioni
6. Plasticità cerebrale e neuroriabilitazione
7. Sviluppo ed Invecchiamento normale e patologico delle capacità visuo-spaziali e navigazionali

Pubblicazioni

Indici Bibliometrici Scopus (dicembre 2019) 150 pubblicazioni; H-index =31.

Articoli

- Raimo S, Iona T, Di Vita A, Boccia M, Buratin S, Ruggeri F, Iosa M, Guariglia C, Grossi D, Palermo L. The development of body representations in school-aged. *Appl Neuropsychol Child*. 2019 Dec 20:1-13. doi: 10.1080/21622965.2019.1703704. [Epub ahead of print]
- Raimo S, Boccia M, Di Vita A, Iona T, Cropano M, Ammendolia A, Colao R, Iocco M, Angelillo V, Guariglia C, Grossi D, Palermo L. Interoceptive awareness in focal brain-damaged patients. *Neurol Sci*. 2019 Dec 14. doi: 10.1007/s10072-019-04172-z. [Epub ahead of print]
- Boccia M, Di Vita A, Palermo L, Nemmi F, Traballes M, Brunelli S, De Giorgi R, Galati G, Guariglia C. Neural modifications in lower limb amputation: an fMRI study on action and non-action oriented body representations. *Brain Imaging Behav*. 2019 Jun 18. doi: 10.1007/s11682-019-00142-3. [Epub ahead of print].
- Boccia M, Bonavita A, Diana S, Di Vita A, Ciurli MP, Guariglia C. Topographical Disorientation: Clinical and Theoretical Significance of Long-Lasting Improvements Following Imagery-Based Training. *Front Hum Neurosci*. 2019 Sep 20;13:322. doi: 10.3389/fnhum.2019.00322. eCollection 2019.
- Teghil A, Boccia M, Nocera L, Pietranelli V, Guariglia C. Interoceptive awareness selectively predicts timing accuracy in irregular contexts. *Behav Brain Res*. 2020 Jan 13;377:112242. doi: 10.1016/j.bbr.2019.112242.
- Teghil A, Boccia M, Bonavita A, Guariglia C. Temporal features of spatial knowledge: Representing order and duration of topographical information. *Behav Brain Res*. 2019 Dec 30;376:112218. doi: 10.1016/j.bbr.2019.112218.
- Boccia M, Teghil A, Guariglia C. Looking into recent and remote past: Meta-analytic evidence for cortical re-organization of episodic autobiographical memories. *Neurosci Biobehav Rev*. 2019 Dec;107:84-95. doi: 10.1016/j.neubiorev.2019.09.003. 2.
- D'Antonio F, Di Vita A, Zazzaro G, Brusà E, Trebbastoni A, Campanelli A, Ferracuti S, de Lena C, Guariglia C, Boccia M. Psychosis of Alzheimer's disease: Neuropsychological and neuroimaging longitudinal study. *Int J Geriatr Psychiatry*. 2019 ;34(11): 1689-1697. doi: 10.1002/gps.5183
- Bivona U, Costa A, Contrada M, Silvestro D, Azicnuda E, Aloisi M, Catania G, Ciurli P, Guariglia C, Caltagirone C, Formisano R, Prigatano GP. Depression, apathy and impaired self-awareness following severe traumatic brain injury: a preliminary investigation. *Brain Inj*. 2019;33(9):1245-1256. doi: 10.1080/02699052.2019.1641225.
- Piccardi L, Palmiero M, Bocchi A, Boccia M, Guariglia C. How does environmental knowledge allow us to come back home? *Exp Brain Res*. 2019; 237(7):1811-1820. doi: 10.1007/s00221-019-05552-9.
- Boccia M, Di Vita A, Diana S, Margiotta R, Imbriano L, Rendace L, Campanelli A, D'Antonio F, Trebbastoni A, de Lena C, Piccardi L, Guariglia C. Is Losing One's Way a Sign of Cognitive Decay? Topographical Memory Deficit as an Early Marker of Pathological Aging. *J Alzheimers Dis*. 2019;68(2):679-693.
- Di Vita A, Palermo L, Boccia M, Guariglia C. Topological map of the body in post-stroke patients: Lesional and hodological aspects. *Neuropsychology*. 2019 May;33(4):499-507. doi: 10.1037/neu0000536. Epub 2019 Feb 7.

- Teghil A, Boccia M, Guariglia C. Field dependence-independence differently affects retrospective time estimation and flicker-induced time dilation. *Exp Brain Res*. 2019 Apr;237(4):1019-1029.
- Boccia M, Sulpizio V, Teghil A, Palermo L, Piccardi L, Galati G, Guariglia C. The dynamic contribution of the high-level visual cortex to imagery and perception. *Hum Brain Mapp*. 2019 Jun 1;40(8):2449-2463.
- De Nigris A, Masciarelli G, Guariglia C. Efficacy of neuropsychological rehabilitation on numerical and calculation abilities: A developmental case study. *Appl Neuropsychol Child*. 2019 Jan 4:1-11. [Epub ahead of print]
- Palermo L, Di Vita A, Boccia M, Nemmi F, Brunelli S, Trallesi M, De Giorgi R, Galati G, Guariglia C. Action and NonAction Oriented Body Representations: Insight from Behavioural and Grey Matter Modifications in Individuals with Lower Limb Amputation. *Biomed Res Int*. 2018 Oct 18;2018:1529730.
- Boccia M, Vecchione F, Di Vita A, D'Amico S, Guariglia C, Piccardi L. Effect of Cognitive Style on Topographical Learning Across Life Span: Insights From Normal Development. *Child Dev*. 2019 Mar; 90(2):462-470.
- Bianchini F, Verde P, Colangeli S, Boccia M, Strollo F, Guariglia C, Bizzarro G, Piccardi L. Effects of oral contraceptives and natural menstrual cycling on environmental learning. *BMC Womens Health*. 2018 Nov 7;18(1):179.
- Palermo L, Cinelli MC, Piccardi L, De Felice S, Ciurli P, Incoccia C, Zompanti L, Guariglia C. Cognitive functions underlying prospective memory deficits: A study on traumatic brain injury. *Appl Neuropsychol Adult*. 2018 Oct 31:1-15. [Epub ahead of print].
- Teghil A, Boccia M, D'Antonio F, Di Vita A, de Lena C, Guariglia C. Neural substrates of internally-based and externally-cued timing: An activation likelihood estimation (ALE) meta-analysis of fMRI studies. *Neurosci Biobehav Rev*. 2019 Jan;96:197-209.
- Onida A, Di Vita A, Bianchini F, Rivera D, Morlett-Paredes A, Guariglia C, Arango-Lasprilla JC. Neuropsychology as a profession in Italy. *Appl Neuropsychol Adult*. 2018 Sep 5:1-15.
- Sulpizio V, Boccia M, Guariglia C, Galati G. Neural Codes for One's Own Position and Direction in a Real-World "Vista" Environment. *Front Hum Neurosci*. 2018 Apr 30;12:167.
- Nori R, Piccardi L, Maialetti A, Goro M, Rossetti A, Argento O, Guariglia C. No Gender Differences in Egocentric and Allocentric Environmental Transformation After Compensating for Male Advantage by Manipulating Familiarity. *Front Neurosci*. 2018 Mar 28;12:204.
- Conson M, Bianchini F, Quarantelli M, Boccia M, Salzano S, Di Vita A, Guariglia C. Selective map-following navigation deficit: A new case of developmental topographical disorientation. *J Clin Exp Neuropsychol*. 2018; 40(9):940-50.
- Boccia M, Di Vita A, Palermo L, Committeri G, Piccardi L, Guariglia C. The way to "left" Piazza del Popolo: damage to white matter tracts in representational neglect for places. *Brain Imaging Behav*. 2018 Dec 12(6):1720-1729
- Di Vita A, Boccia M, Palermo L, Nemmi F, Trallesi M, Brunelli S, De Giorgi R, Galati G, Guariglia C. Cerebellar grey matter modifications in lower limb amputees not using prosthesis. *Sci Rep*. 2018 Jan 10;8(1):370
- Boccia M, Rosella M, Vecchione F, Tanzilli A, Palermo L, D'Amico S, Guariglia C, Piccardi L. Enhancing Allocentric Spatial Recall in Pre-schoolers through Navigational Training Programme. *Front Neurosci*. 2017 Oct 16;11:574.
- Romani C, Galuzzi C, Guariglia C, Goslin J. Comparing phoneme frequency, age of acquisition, and loss in aphasia: Implications for phonological universals. *Cogn Neuropsychol*. 2017 Oct-Dec 34(7-8):449-471.
- Boccia M, Vecchione F, Piccardi L, Guariglia C. Effect of Cognitive Style on Learning and Retrieval of Navigational Environments. *Front Pharmacol*. 2017 Jul 25;8:496.
- Boccia M, Marin D, D'Antuono G, Ciurli P, Incoccia C, Antonucci G, Guariglia C, Piccardi L. The Tower of London (ToL) in Italy: standardization of the ToL test in an Italian population. *Neurol Sci*. 2017 Jul;38(7):1263-1270.
- Boccia M, Barbetti S, Piccardi L, Guariglia C, Giannini AM. Neuropsychology of Aesthetic Judgment of Ambiguous and Non-Ambiguous Artworks. *Behav Sci (Basel)*. 2017 Mar 18;7(1). pii: E13
- Boccia M, Piccardi L, D'Alessandro A, Nori R, Guariglia C. Restructuring the navigational field: individual predisposition towards field independence predicts preferred navigational strategy. *Exp Brain Res*. 2017 Jun;235(6):1741-1748.
- Tedesco AM, Bianchini F, Piccardi L, Clausi S, Berthoz A, Molinari M, Guariglia C, Leggio M. Does the cerebellum contribute to human navigation by processing sequential information? *Neuropsychology*. 2017 Jul;31(5):564-574.
- Rigon J, Burro R, Guariglia C, Maini M, Marin D, Ciurli P, Bivona U, Formisano R. Self-awareness rehabilitation after Traumatic Brain Injury: A pilot study to compare two group therapies. *Restor Neurol Neurosci*. 2017;35(1):115-127.

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- Nemmi F, Boccia M, Guariglia C. Does aging affect the formation of new topographical memories? Evidence from an extensive spatial training. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn.* 2017 Jan;24(1):29-44.
- Boccia M, Sulpizio V, Nemmi F, Guariglia C, Galati G. Direct and indirect parieto-medial temporal pathways for spatial navigation in humans: evidence from resting-state functional connectivity. *Brain Struct Funct.* 2017 May;222(4):1945-1957..
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- Palmiero M, Piccardi L, Nori R, Palermo L, Salvi C, Guariglia C. Editorial: Creativity and Mental Imagery. *Front Psychol.* 2016 Aug 25;7:1280.
- Boccia M, Sulpizio V, Palermo L, Piccardi L, Guariglia C, Galati G. I can see where you would be: Patterns of fMRI activity reveal imagined landmarks. *Neuroimage.* 2017 Jan 1;144(Pt A):174-182.
- Piccardi L, De Luca M, Nori R, Palermo L, Iachini F, Guariglia C. Navigational Style Influences Eye Movement Pattern during Exploration and Learning of an Environmental Map. *Front Behav Neurosci.* 2016 Jun 29;10:140.
- Boccia M, Silveri MC, Sabatini U, Guariglia C, Nemmi F. Neural Underpinnings of the Decline of Topographical Memory in Mild Cognitive Impairment. *Am J Alzheimers Dis Other Dement.* 2016 Dec;31(8):618-630.
- Boccia M, Piccardi L, Di Marco M, Pizzamiglio L, Guariglia C. Does field independence predict visuo-spatial abilities underpinning human navigation? Behavioural evidence. *Exp Brain Res.* 2016 Oct;234(10):2799-807
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- Di Vita A, Boccia M, Palermo L, Guariglia C. To move or not to move, that is the question! Body schema and nonaction oriented body representations: An Fmri meta-analytic study. *Neurosci Biobehav Rev.* 2016 Sep;68:37-46.
- Palermo L, Piccardi L, Nori R, Giusberti F, Guariglia C. The impact of ageing and gender on visual mental imagery processes: A study of performance on tasks from the Complete Visual Mental Imagery Battery (CVMIB). *J Clin Exp Neuropsychol.* 2016 Sep;38(7):752-63.
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- Boccia M, Barbetti S, Piccardi L, Guariglia C, Ferlazzo F, Giannini AM, Zaidel DW. Where does brain neural activation in aesthetic responses to visual art occur? Meta-analytic evidence from neuroimaging studies. *Neurosci Biobehav Rev.* 2016 Jan;60:65-71.
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- Committeri G, Piccardi L, Galati G, Guariglia C. Where did you "left" Piazza del Popolo? At your "right" temporoparietal junction. *Cortex.* 2015 Dec;73:106-11
- Piccardi L, Nori R, Palermo L, Guariglia C, Giusberti F. Age effect in generating mental images of buildings but not common objects. *Neurosci Lett.* 2015 Aug 18;602:79-83.
- Piccardi L, Nori R, Boccia M, Barbetti S, Verde P, Guariglia C, Ferlazzo F. A dedicated system for topographical working memory: evidence from domain-specific interference tests. *Exp Brain Res.* 2015 Aug;233(8):2489-95.
- Boccia M, Piccardi L, Cordellieri P, Guariglia C, Giannini AM. EMDR therapy for PTSD after motor vehicle accidents: meta-analytic evidence for specific treatment. *Front Hum Neurosci.* 2015 Apr 21;9:213.
- Verde P, Piccardi L, Bianchini F, Guariglia C, Carrozzo P, Morgagni F, Boccia M, Di Fiore G, Tomao E. Gender differences in navigational memory: pilots vs. nonpilots. *Aerosp Med Hum Perform.* 2015 Feb;86(2):103-11.

- Palermo L, Cinelli MC, Piccardi L, Ciurli P, Incoccia C, Zompanti L, Guariglia C. Women outperform men in remembering to remember. *Q J Exp Psychol (Hove)*. 2016;69(1):65-74.
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- Boccia M, Guariglia C, Sabatini U, Nemmi F. Navigating toward a novel environment from a route or survey perspective: neural correlates and context-dependent connectivity. *Brain Struct Funct*. 2016 May;221(4):2005-21.
- Matano A, Iosa M, Guariglia C, Pizzamiglio L, Paolucci S. Does outcome of neuropsychological treatment in patients with unilateral spatial neglect after stroke affect functional outcome? *Eur J Phys Rehabil Med*. 2015 Dec;51(6):73743.
- Piccardi L, Palermo L, Bocchi A, Guariglia C, D'Amico S. Does spatial locative comprehension predict landmark-based navigation? *PLoS One*. 2015 Jan 28;10(1):e0115432.
- Di Vita A, Palermo L, Piccardi L, Guariglia C. Peculiar body representation alterations in hemineglect: a case report. *Neurocase*. 2015;21(6):697-706.
- Boccia M, Piccardi L, Palermo L, Nemmi F, Sulpizio V, Galati G, Guariglia C. A penny for your thoughts! patterns of fMRI activity reveal the content and the spatial topography of visual mental images. *Hum Brain Mapp*. 2015 Mar;36(3):945-58.
- Boccia M, Nemmi F, Tizzani E, Guariglia C, Ferlazzo F, Galati G, Giannini AM. Do you like Arcimboldo's? Esthetic appreciation modulates brain activity in solving perceptual ambiguity. *Behav Brain Res*. 2015 Feb 1;278:147-54.
- Nemmi F, Bianchini F, Piras F, Péran P, Palermo L, Piccardi L, Sabatini U, Guariglia C. Finding my own way: an fMRI single case study of a subject with developmental topographical disorientation. *Neurocase*. 2015;21(5):573-83.
- Grossi D, Di Vita A, Palermo L, Sabatini U, Trojano L, Guariglia C. The brain network for self-feeling: a symptom-lesion mapping study. *Neuropsychologia*. 2014 Oct;63:92-8.
- Piccardi L, Verde P, Bianchini F, Morgagni F, Guariglia C, Strollo F, Tomao E. Deficits in visuo-spatial but not in topographical memory during pregnancy and the postpartum state in an expert military pilot: a case report. *BMC Res Notes*. 2014 Aug 13;7:524.
- Boccia M, Barbetti S, Margiotta R, Guariglia C, Ferlazzo F, Giannini AM. Why do you like Arcimboldo's portraits? Effect of perceptual style on aesthetic appreciation of ambiguous artworks. *Atten Percept Psychophys*. 2014 Aug;76(6):1516-21.
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- Palermo L, Piccardi L, Bianchini F, Nemmi F, Giorgio V, Incoccia C, Sabatini U, Guariglia C. Looking for the compass in a case of developmental topographical disorientation: a behavioral and neuroimaging study. *J Clin Exp Neuropsychol*. 2014;36(5):464-81.
- Piccardi L, Bianchini F, Nori R, Marano A, Iachini F, Lasala L, Guariglia C. Spatial location and pathway memory compared in the reaching vs. walking domains. *Neurosci Lett*. 2014 Apr 30;566:226-30.
- Piccardi L, Leonzi M, D'Amico S, Marano A, Guariglia C. Development of navigational working memory: evidence from 6- to 10-year-old children. *Br J DevPsychol*. 2014 Jun;32(2):205-17.
- Piccardi L, Palermo L, Leonzi M, Riseti M, Zompanti L, D'Amico S, Guariglia C. The Walking Corsi Test (WalCT): a normative study of topographical working memory in a sample of 4- to 11-year-olds. *Clin Neuropsychol*. 2014;28(1):84-96.
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- Guariglia C, Palermo L, Piccardi L, Iaria G, Incoccia C. Neglecting the left side of a city square but not the left side of its clock: prevalence and characteristics of representational neglect. *PLoS One.* 2013 Jul 10;8(7):e67390
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- Palermo L, Nori R, Piccardi L, Zeri F, Babino A, Giusberti F, Guariglia C. Refractive errors affect the vividness of visual mental images. *PLoS One.* 2013 Jun 5;8(6):e65161.
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