

Curriculum Vitae  
MADDALENA BOCCIA

Rome,  
24/01/23



**Part I – General**

Name and Surname	MADDALENA BOCCIA
Nationality	ITALIAN
Telephone	+39 06 49917599
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Spoken Languages	Italian and English

**Part II – Education and other achievements**

Degree	Year	University	Description
Scientific National Qualification (Abitolazione Scientifica Nazionale)	2022	-	11/E1 (Settore Concorsuale 11/E1 - I Fascia)
Scientific National Qualification (Abitolazione Scientifica Nazionale)	2017	-	11/E1 (Settore Concorsuale 11/E1 - II Fascia)
PhD	2015	“Sapienza” University of Rome	Psychobiology and Cognitive Neuroscience
Psychologist License (Abitolazione professionale all’esercizio della professione di Psicologo)	2013	“Sapienza” University of Rome	-
Master Degree	2010	“Sapienza” University of Rome	Cognitive Neuroscience and Psychological Rehabilitation, <i>cum laude</i>
Bachelor Degree	2008	“Sapienza” University of Rome	Psychological Sciences and Technique for the analysis of the normal and pathological cognitive processes, <i>cum laude</i>

*Other training activities*

2015	Bicocca University of Milan	Images of the mind: new frontiers in brain imaging. Advanced (f)MRI statistical methods and their applications
2013	IRCCS Lucia, Rome	Training course of Medical Imaging
2012	IRCCS Lucia, Rome	Training course of security problems in magnetic resonance imaging
2009-2010	“Sapienza” University of Rome	Excellence training in Cognitive Neuroscience and Psychological Rehabilitation

**Part III – Professional experiences**

*IIIA – Research activities*

From	To	Institution	Description
30/09/2019	29/09/2022	“Sapienza” University of Rome	Researcher
02/01/2018	29/09/2019	IRCCS Lucia, Rome	Post-doctoral fellowship
01/01/2017	31/12/2017	“Sapienza” University of Rome	Post-doctoral fellowship
04/01/2016	31/12/2016	IRCCS Lucia, Rome	Post-doctoral fellowship
01/01/2015	31/12/2015	“Sapienza” University of Rome	Post-doctoral fellowship
01/11/2011	31/10/2014	“Sapienza” University of Rome	PhD student
15/02/2012	31/03/2012	IRCCS Lucia, Rome	Collaborator in “Against Crime: Care for Elders Support and Security” (European Commission Program “Criminal Justice”; ACCESS: JUST/2010/JPEN/AG/1576)

*IIIB – Editorial appointments*

From	To	Journal	Description
	2021	Brain Sciences	<i>Guest Editor</i> for the special issue “The Body in Neurosciences: Representation, Perception, and Space Processing”
	2021	Frontiers in Psychiatry, in Neurology, in Behavioral Neuroscience, in Psychology	<i>Guest Editor</i> for the research topic “Spatial Navigation and Neurodevelopmental Disorders”
01/01/2020 2016	31/12/2021 Date	Journal of Alzheimer’s Disease Frontiers in Psychology (Section: Cognition)	<i>Associate Editor</i> Review Editor
2014	Date	PloS ONE, Journal of Neuropsychology, Experimental Brain Research, Brain Imaging and Behavior; Brain Structure and Function; NeuroImage; Neuroscience; Scientific Reports.	Revisore ad hoc
01/01/2014	31/12/2015	Journal of Alzheimer’s Disease	Editor

*IIIC – Other experiences*

From	To	Institution	Description
15/09/2010	15/09/2011	“Sapienza” University of Rome	Professional stage
01/10/2007	01/04/2008	Complesso Integrato di Riabilitazione dell’Ordine Fatebenefratelli, Genzano di Roma (Italia)	Tirocinio professionale

**Part IV – Teaching experience**

Year	University	Description
From 2020	“Sapienza” University of Rome	6 CFU in Methods of Cognitive Neurosciences (Master degree in Cognitive Neurosciences and Psychological Rehabilitation)
From 2020	“Sapienza” University of Rome	3 CFU Laboratory of meta-analysis of neuromaging studies (Master degree in Cognitive Neurosciences and Psychological Rehabilitation)
From 2020	“Sapienza” University of Rome	1 CFU Neuropsychology of Memory (postgraduate school of Neuropsychology)
2019	“Sapienza” University of Rome	3 CFU Perceptual and cognitive processing (Master degree in Cognitive neuroscience)
2018	“Sapienza” University of Rome	<i>Seminar lesson</i> on “Spatial navigation and topographical disorientation”, for the Specialization School of Neuropsychology
2018	“Sapienza” University of Rome	<i>Seminar lesson</i> on “Regression models applied to neuroimaging data analyses”, for master degree course in Psychometry held by Professor Grazia Spitoni
2014	L’Aquila University	<i>Seminar lessons</i> on Moral Judgment for bachelor and master degree courses in General Psychology and Experimental held by Professor Laura Piccardi

**Supervision**

Year	University	Description
From 2019	“Sapienza” University of Rome	16 experimental theses in in Cognitive Neurosciences and Psychological Rehabilitation (6 ongoing)
From 2019	“Sapienza” University of Rome	4 post graduate students of postgraduate school of Neuropsychology (2 ongoing)
From 2019	“Sapienza” University of Rome	1 PhD Student

## Part V – Scientific awards and memberships

### Part VA – Awards and honors

Year	Description
2016	Prize for the best PhD thesis 2015 by Italian Association of Psychology (Premio Migliore Tesi di Dottorato 2015 dell'Associazione Italiana di Psicologia, AIP, Sezione di psicologia Sperimentale)
2013	Scientific Prize by Italian Association of Aerospace Medicine for the paper "Gender differences in solving moral dilemmas: are there any implications for aerospace flight experts?" (Premio Scientifico "I GUIDONIANI" dell'Associazione Italiana di Medicina Aeronautica e Spaziale)

### Part VB – Grants

Year	Position	Description	Funded by	Amount (€)
2022	Principal Investigator	Autobiographical memory, time and environmental navigation: unveiling the cognitive map of our past through an integrated neuropsychological perspective (ATENA)	ERC StG 2021 Call: HORIZON-EUROPE-ERC-2021-STG	1.499.718 €
2020	Principal Investigator	Neuropsychology of autobiographical memory (NAM): insights from patients with subjective cognitive decline	"Sapienza" University of Rome	33.787 €
2015	Principal Investigator	Starting grant for the project "Neural bases of perceiving and imagining familiar landmarks: an fMRI study"	"Sapienza" University of Rome	2 000.00
2021	Co-PI	Prodromal <i>Dementia with Lewy Bodies: clinical characterization and potential biomarkers</i> , PI Dott.ssa Fabrizia D'Antonio	Giovani Ricercatori, RICERCA FINALIZZATA 2021	450.000 €
2016	Research collaborator	"Body representation disorders: exploring the association with interoceptive awareness deficit and the impact on motor rehabilitation"	Fondazione con il Sud	110 000.00

### Part VC – Membership

From	Description
2020	Member of the PhD school Behavioral Neuroscience (Sapienza University of Rome)
2020	Member of the postgraduate school of Neuropsychology (Sapienza University of Rome)
2020	Professional Association of Psychologists, Lazio – Registration Number 25189
2014	Member of Italian Association of Psychology (AIP)
2016	Member of Italian Association of Neuropsychology (SINP)

## Part VI – Research interests

Key-words	Description
Autobiographical memory Time perception Spatial navigation Memory deficit Neuropsychology of memory	My research interests mainly concern neurocognitive mechanisms of memory, especially concerning episodic autobiographical memory. I am interested in neural bases of temporal and spatial processing, and their relation with memory formation and retrieve.

## Part VII – Summary of scientific results and bibliometric indexes

<i>Bibliometric index</i>	<i>Scholar</i>	<i>Scopus</i>
Number of papers	106	104
Total number of citations	2349	1646
H-Index	27	22
I10-Index	56	

## Part VIII – Publications

### Main author (first or last author)

1. Teghil A, Bonavita A, Procida F, Giove F, **Boccia M.** (in press) Intrinsic hippocampal connectivity is associated with individual differences in retrospective duration processing. *Brain Structure and Function* DOI : 10.1007/s00429-023-02612-3

2. 6738b0af-3b01-4000-adf2-204d13c23ea7
3. Teghil A, Bonavita A, Procida F, Giove F, **Boccia M.** (2022) Temporal Organization of Episodic and Experience-near Semantic Autobiographical Memories: Neural Correlates and Context-dependent Connectivity. *J Cogn Neurosci*. doi: 10.1162/jocn\_a\_01906.
4. **Boccia, M.**, Barbetti, S., Valentini, F., De Angelis, C., Tanzilli, A., Fabio, V., Guariglia, C., Galati, G., Formisano, R., Ciurli, M.P. (2022) Neural underpinnings of the slowness of information processing in patients with traumatic brain injury: insights from tract-based spatial statistics. *Neurological Sciences*. <https://doi.org/10.1007/s10072-022-06150-4>
5. Bonavita, A., Teghil, A., Pesola, M. C., Guariglia, C., Antonio, F. D., Di Vita, A., & **Boccia, M.** (2021). Overcoming navigational challenges: A novel approach to the study and assessment of topographical orientation. *Behavior Research Methods* volume 54, pages752–762 <https://doi.org/10.3758/s13428-021-01666-7>
6. Teghil, A., Bonavita, A., Guariglia, C., & **Boccia, M.** (2021). Commonalities and specificities between environmental navigation and autobiographical memory: A synthesis and a theoretical perspective. *Neuroscience & Biobehavioral Reviews*, 127, 928–945. <https://doi.org/10.1016/j.neubiorev.2021.06.012>
7. Teghil, A., Di Vita, A., D'Antonio F., **Boccia, M.** (2020) Inter-individual differences in resting-state functional connectivity are linked to interval timing in irregular contexts. *Cortex* 128, 254-269. doi.org/10.1016/j.cortex.2020.03.021
8. Teghil, A., Di Vita, A., Pietranelli, V., Matano, A., **Boccia, M.**, (2020). Duration reproduction in regular and irregular contexts after unilateral brain damage: Evidence from voxel-based lesion-symptom mapping and atlas-based hodological analysis. *Neuropsychologia* 147, 107577. <https://doi.org/10.1016/j.neuropsychologia.2020.107577>
9. Teghil, A., Marc, I. B. & **Boccia, M.** (2021) Mental representation of autobiographical memories along the sagittal mental timeline: Evidence from spatiotemporal interference. *Psychon. Bull. Rev.* 28(4), 1327-1335, doi:10.3758/s13423-021-01906-z.
10. D'Antonio, F., Di Vita, A., Zazzaro, G., Brusa, E., Trebbastoni, A., Campanelli, A., Ferracuti, S., de Lena, C., Guariglia, C., **Boccia, M.** (2019). Psychosis of Alzheimer's disease: Neuropsychological and neuroimaging longitudinal study. *Int J Geriatr Psychiatry*. 34:1689–1697. doi:10.1002/gps.5183
11. D'Antonio, F., Di Vita, A., Zazzaro, G., Canevelli, M., Trebbastoni, A., Campanelli, A., Ferracuti, S., de Lena, C., Guariglia C. & **Boccia M.** (2021). Cortical complexity alterations in the medial temporal lobe are associated with Alzheimer's disease psychosis, Aging, Neuropsychology, and Cognition, DOI: 10.1080/13825585.2021.1958139
12. Spitoni, G.F., Zingaretti, P., Giovanardi, G., Antonucci, G., Galati, G., Lingiardi, V., Cruciani, G., Titone, G., **Boccia, M.** (2020). Disorganized Attachment pattern affects the perception of Affective Touch. *Sci. Rep.* 10, 9658. <https://doi.org/10.1038/s41598-020-66606-5>
13. **Boccia M**, Raimo S, Di Vita A, Battisti A, Matano A, Guariglia C, Grossi D, Palermo L (2020) Topological and hodological aspects of body representation in right brain damaged patients, *Neuropsychologia* 148, 107637, 107637 doi.org/10.1016/j.neuropsychologia.2020.107637
14. **Boccia M.**, Cordelleri P, Piccardi L, Ferlazzo F, Guariglia C. & Giannini A.M. (2014) Gender differences in solving moral dilemma: are there any implications for experts in aerospace flight? *Italian Journal Of Aerospace Medicine*, 10: 12-23
15. **Boccia, M.**, Acierno, M., & Piccardi, L. (2015). Neuroanatomy of Alzheimer's Disease and Late-Life Depression: A Coordinate-Based Meta-Analysis of MRI Studies. *J Alzheimers Dis*, 46(4), 963-970. doi:10.3233/JAD-142955
16. **Boccia, M.**, Barbetti, S., Margiotta, R., Guariglia, C., Ferlazzo, F., & Giannini, A. M. (2014). Why do you like Arcimboldo's portraits? Effect of perceptual style on aesthetic appreciation of ambiguous artworks. *Atten Percept Psychophys*, 76(6), 1516-1521. doi:10.3758/s13414-014-0739-7
17. **Boccia, M.**, Barbetti, S., Piccardi, L., Guariglia, C., & Giannini, A. M. (2017). Neuropsychology of Aesthetic Judgment of Ambiguous and Non-Ambiguous Artworks. *Behav Sci (Basel)*, 7(1). doi:10.3390/bs7010013
18. **Boccia, M.**, Barbetti, S., Piccardi, L., Guariglia, C., Ferlazzo, F., Giannini, A. M., & Zaidel, D. W. (2016). Where does brain neural activation in aesthetic responses to visual art occur? Meta-analytic evidence from neuroimaging studies. *Neurosci Biobehav Rev*, 60, 65-71. doi:10.1016/j.neubiorev.2015.09.009
19. **Boccia, M.**, Bonavita, A., Diana, S., Di Vita, A., Ciurli, M. P., & Guariglia, C. (2019). Topographical disorientation: clinical and theoretical significance of long-lasting improvements following imagery-based training. *Frontiers in Human Neuroscience*. 13, 322, doi:10.3389/fnhum.2019.00322
20. **Boccia, M.**, D'Amico, S., Bianchini, F., Marano, A., Giannini, A. M., & Piccardi, L. (2016). Different neural modifications underpin PTSD after different traumatic events: an fMRI meta-analytic study. *Brain Imaging Behav*, 10(1), 226-237. doi:10.1007/s11682-015-9387-3
21. **Boccia, M.**, Dacquino, C., Piccardi, L., Cordellieri, P., Guariglia, C., Ferlazzo, F., . . . Giannini, A. M. (2017). Neural foundation of human moral reasoning: an ALE meta-analysis about the role of personal perspective. *Brain Imaging Behav*, 11(1), 278-292. doi:10.1007/s11682-016-9505-x
22. **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. (2019). Is Losing One's Way a Sign of Cognitive Decay? Topographical Memory Deficit

- as an Early Marker of Pathological Aging. *J Alzheimers Dis*, 68(2), 679-693. doi:10.3233/JAD-180890
23. **Boccia, M.**, Di Vita, A., Palermo, L., Committeri, G., Piccardi, L., & Guariglia, C. (2018). The way to "left" Piazza del Popolo: damage to white matter tracts in representational neglect for places. *Brain Imaging Behav.* 12(6), 1720-1729, doi:10.1007/s11682-018-9839-7
  24. **Boccia, M.**, Di Vita, A., Palermo, L., Nemmi, F., Trabalesi, M., Brunelli, S., De Giorgi, R., Galati, G., Guariglia, C. (2020). Neural modifications in lower limb amputation: an fMRI study on action and non-action oriented body representations. *Brain Imaging Behav.* 14(2), 416-425, doi:10.1007/s11682-019-00142-3
  25. **Boccia, M.**, Guariglia, C., Sabatini, U., & Nemmi, F. (2016). Navigating toward a novel environment from a route or survey perspective: neural correlates and context-dependent connectivity. *Brain Struct Funct*, 221(4), 2005-2021. doi:10.1007/s00429-015-1021-z
  26. **Boccia, M.**, Guariglia, P., Piccardi, L., De Martino, G., Giannini, A.M., (2020). The detail is more pleasant than the whole: Global and local prime affect esthetic appreciation of artworks showing whole-part ambiguity. *Attention, Perception, Psychophys.* <https://doi.org/10.3758/s13414-020-02093-0>
  27. **Boccia, M.**, Marin, D., D'Antuono, G., Ciurli, P., Incoccia, C., Antonucci, G., . . . Piccardi, L. (2017). The Tower of London (ToL) in Italy: standardization of the ToL test in an Italian population. *Neurol Sci*, 38(7), 1263-1270. doi:10.1007/s10072-017-2957-y
  28. **Boccia, M.**, Nemmi, F., & Guariglia, C. (2014). Neuropsychology of environmental navigation in humans: review and meta-analysis of fMRI studies in healthy participants. *Neuropsychol Rev*, 24(2), 236-251. doi:10.1007/s11065-014-9247-8
  29. **Boccia, M.**, Nemmi, F., Tizzani, E., Guariglia, C., Ferlazzo, F., Galati, G., & Giannini, A. M. (2015). Do you like Arcimboldo's? Esthetic appreciation modulates brain activity in solving perceptual ambiguity. *Behav Brain Res*, 278, 147-154. doi:10.1016/j.bbr.2014.09.041
  30. **Boccia, M.**, Piccardi, L., & Guariglia, P. (2015). How treatment affects the brain: meta-analysis evidence of neural substrates underpinning drug therapy and psychotherapy in major depression. *Brain Imaging Behav.* doi:10.1007/s11682-015-9429-x
  31. **Boccia, M.**, Piccardi, L., & Guariglia, P. (2015). The Meditative Mind: A Comprehensive Meta-Analysis of MRI Studies. *Biomed Res Int*, 2015, 419808. doi:10.1155/2015/419808
  32. **Boccia, M.**, Piccardi, L., Cordellieri, P., Guariglia, C., & Giannini, A. M. (2015). EMDR therapy for PTSD after motor vehicle accidents: meta-analytic evidence for specific treatment. *Front Hum Neurosci*, 9, 213. doi:10.3389/fnhum.2015.00213
  33. **Boccia, M.**, Piccardi, L., D'Alessandro, A., Nori, R., & Guariglia, C. (2017). Restructuring the navigational field: individual predisposition towards field independence predicts preferred navigational strategy. *Exp Brain Res*. doi:10.1007/s00221-017-4936-1
  34. **Boccia, M.**, Piccardi, L., Di Marco, M., Pizzamiglio, L., & Guariglia, C. (2016). Does field independence predict visuo-spatial abilities underpinning human navigation? Behavioural evidence. *Exp Brain Res*. doi:10.1007/s00221-016-4682-9
  35. **Boccia, M.**, Piccardi, L., Palermo, L., Nemmi, F., Sulpizio, V., Galati, G., & Guariglia, C. (2015). A penny for your thoughts! patterns of fMRI activity reveal the content and the spatial topography of visual mental images. *Hum Brain Mapp*, 36(3), 945-958. doi:10.1002/hbm.22678
  36. **Boccia, M.**, Piccardi, L., Palermo, L., Nemmi, F., Sulpizio, V., Galati, G., & Guariglia, C. (2014). One's own country and familiar places in the mind's eye: different topological representations for navigational and non-navigational contents. *Neurosci Lett*, 579, 52-57. doi:10.1016/j.neulet.2014.07.008
  37. **Boccia, M.**, Piccardi, L., Palermo, L., Nori, R., & Palmiero, M. (2015). Where do bright ideas occur in our brain? Meta-analytic evidence from neuroimaging studies of domain-specific creativity. *Front Psychol*, 6, 1195. doi:10.3389/fpsyg.2015.01195
  38. **Boccia, M.**, Rosella, M., Vecchione, F., Tanzilli, A., Palermo, L., D'Amico, S., Guariglia, C., Piccardi, L. (2017). Enhancing Allocentric Spatial Recall in Pre-schoolers through Navigational Training Programme. *Frontiers in Neuroscience*, 11. doi:10.3389/fnins.2017.00574
  39. **Boccia, M.**, Silveri, M. C., & Guariglia, C. (2014). Visuo-perceptive priming in Alzheimer's disease: evidence for a multi-componential implicit memory system. *J Alzheimers Dis*, 40(2), 455-463. doi:10.3233/JAD-131775
  40. **Boccia, M.**, Silveri, M. C., Sabatini, U., Guariglia, C., & Nemmi, F. (2016). Neural Underpinnings of the Decline of Topographical Memory in Mild Cognitive Impairment. *Am J Alzheimers Dis Other Demen*, 31(8), 618-630. doi:10.1177/1533317516654757
  41. **Boccia, M.**, Sulpizio, V., Bencivenga, F., Guariglia, C., & Galati, G. (2021). Neural representations underlying mental imagery as unveiled by representation similarity analysis. *Brain Structure and Function*, 0123456789. *Brain Structure and Function*, 226(5), 1511-1531 doi: 10.1007/s00429-021-02266-z
  42. **Boccia, M.**, Sulpizio, V., Nemmi, F., Guariglia, C., & Galati, G. (2017). Direct and indirect parieto-medial temporal pathways for spatial navigation in humans: evidence from resting-state functional connectivity. *Brain Struct Funct*,

222(4), 1945-1957. doi:10.1007/s00429-016-1318-6

43. **Boccia, M.**, Sulpizio, V., Palermo, L., Piccardi, L., Guariglia, C., & Galati, G. (2017). I can see where you would be: Patterns of fMRI activity reveal imagined landmarks. *Neuroimage*, 144(Pt A), 174-182. doi:10.1016/j.neuroimage.2016.08.034
44. **Boccia, M.**, Sulpizio, V., Teghil, A., Palermo, L., Piccardi, L., & Galati, G., Guariglia, C. (2019) The dynamic contribution of the high-level visual cortex to imagery and perception. *Human Brain Mapping* 40: 2449–2463 DOI: 10.1002/HBM.24535
45. **Boccia, M.**, Teghil, A., & Guariglia, C. (2019). Looking into recent and remote past: meta-analytic evidence for cortical re-organization of episodic autobiographical memories. *Neuroscience and Biobehavioral Reviews* 107, 84–95 doi:10.1016/j.neubiorev.2019.09.003
46. **Boccia, M.**, Vecchione, F., Di Vita, A., D'Amico, S., Guariglia, C., Piccardi, L. (2019) Effect of cognitive style on topographical learning across lifespan: insights from normal development. *Child Development* 90(2), 462-470, doi:10.1111/cdev.13184
47. **Boccia, M.**, Vecchione, F., Piccardi, L., & Guariglia, C. (2017). Effect of Cognitive Style on Learning and Retrieval of Navigational Environments. *Front Pharmacol*, 8, 496. doi:10.3389/fphar.2017.00496
48. **Boccia, M.**, Verde, P., Angelino, G., Carrozzo, P., Vecchi, D., Piccardi, L., . . . Giannini, A. M. (2017). Effect of professional expertise and exposure to everyday life decision-making on moral choices. *Neurosci Lett*, 654, 80-85. doi:10.1016/j.neulet.2017.06.036
49. Teghil, A., **Boccia, M.**, Bonavita, A., & Guariglia, C. (2019). Temporal features of spatial knowledge: Representing order and duration of topographical information. *Behavioural Brain Research*, 112218. doi:https://doi.org/10.1016/j.bbr.2019.112218
50. Teghil, A., D'Antonio, F., Di Vita, A., Guariglia, C., **Boccia, M.** (2022) Temporal learning in the suprasedond range: insights from cognitive style. *Psychological Research* 10.1007/s00426-022-01667-x

#### Co-author

51. Palermo, L., **Boccia, M.**, Piccardi, L.,; Nori, R. (2022). Congenital lack and extraordinary ability in object and spatial imagery: An investigation on sub-types of aphantasia and hyperphantasia. *Consciousness and Cognition* 103, 103360. <https://doi.org/10.1016/J.CONCOG.2022.103360>
52. D'Antonio, F., **Boccia, M.**, Di Vita, A. Suppa, A., Fabbrini, A., Canevelli, M., Caramia, F., Fiorelli, M., Guariglia, C., Ferracuti, S., de Lena, C., Aarsland, D., ffytche, D. (2022) Visual hallucinations in Lewy body disease: pathophysiological insights from phenomenology. *J Neurol* <https://doi.org/10.1007/s00415-022-10983-6>
53. De Bartolo, M.I., Leodori, G., Mancuso, M., Costanzo, M., Fabbrini, A., Belvisi, D., Di Vita, A., **Boccia, M.**, Barbetti, S., D'Antonio, F., Conte, A., Fabbrini, G., Berardelli, A. (2022) TH-240. Theta-gamma coupling as a potential predictive index of cognitive impairment in de novo cognitively intact Parkinson's disease patients, *Clinical Neurophysiology*, Volume 141, Supplement, 2022, Pages S161-S162, ISSN 1388-2457, <https://doi.org/10.1016/j.clinph.2022.07.426>.
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58. Canino, S.; Raimo, S.; **Boccia, M.**; Di Vita, A.; Palermo, L. On the Embodiment of Social Cognition Skills: The Inner and Outer Body Processing Differently Contributes to the Affective and Cognitive Theory of Mind. *Brain Sci.* 2022,12,1423. <https://doi.org/10.3390/brainsci1211142>
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## Proceedings in conference papers

### Invited speaker:

1. "Topographical memory: a special window into healthy and pathological ageing" nel workshop online intitolato *Memory and Attention In Healthy and Pathological Ageing: Theories And Applications*, ospitato da Coco, Raposo, Delhay, D'Innocenzo, Mikhailova, Dipartimento di Psicologia dell'Università di Lisbona, 17-18 May 2021
2. "Basi neurali della rappresentazione mentale del corpo e della consapevolezza interocettiva" all'interno del webinar "La mente nel corpo, il corpo nella mente: insight dagli studi sulla percezione e rappresentazione mentale del corpo" organizzato dalla Prof.ssa Liana Palermo. Università degli studi Magna Græcia di Catanzaro. 5 Maggio 2021
3. "Il ruolo dell'immaginazione nel disorientamento topografico", nell'ambito del simposio "Processi di codifica della distanza nello spazio fisico e mentale: nuove evidenze neuro-comportamentali" (Proponenti: Prof.ssa Giorgia Committeri e Dott.ssa Annalisa Tosoni) XXVI Congresso dell'Associazione Italiana di Psicologia (AIP), sezione psicologia sperimentale (Virtual Edition 2-4 Settembre 2020).
4. *Due interventi dal titolo "Basi neurali della rappresentazione del corpo: studi fMRI" e "Perdita di informazione bottom-up e deficit della rappresentazione del corpo: studi su pazienti con amputazione di arti" all'interno del simposio "Il corpo nella mente" Università degli studi Magna Græcia di Catanzaro, organizzato dalla Prof.ssa Liana Palermo. 7 Novembre 2019*
5. "Connettività strutturale nel neglect immaginativo per i luoghi", nell'ambito del Simposio "La connettività cerebrale come strumento di indagine in neuropsicologia" organizzato dalla Prof.ssa Giorgia Committeri. In: Convegno annuale della Società Italiana di Neuropsicologia. Palermo, 24-25 Novembre 2017
6. "Effetti dello stile cognitivo sulla navigazione spaziale", nell'ambito del Simposio "Spatial cognition e differenze individuali" organizzato dal Prof. Andrea Bosco. In: Congresso della Sezione di Psicologia Sperimentale AIP Bari, 20-22 Settembre 2017.
7. *Correlati neurali della rappresentazione spaziale e della memoria topografica nell'uomo*. In: Congresso della Sezione di Psicologia Sperimentale AIP Roma, 20-22 Settembre 2016.

### Other talks:

1. Boccia M., Teghil A., Raimo S., Di Vita A., Grossi D., Guariglia C. & Palermo L. (2021) Neural underpinnings of interoceptive awareness. 8th Annual Meeting of the Society for Affective Science. April 13-16, 2021 Virtual Conference
2. Boccia M., Sulpizio, Palermo, Piccardi, Guariglia & Galati (2016) Neural correlates and context-dependent connectivity of imagined and perceived familiar landmarks: evidence for a dynamic neural network. In: European Workshop on Imagery and Cognition. Paris, June 6-8, 2016
3. Boccia M., Piccardi L., Palermo L., Nemmi F., Sulpizio V., Galati G., Guariglia C. (2014) Un penny per i tuoi pensieri! I pattern di attivazione fMRI rivelano il contenuto delle immagini mentali visuo-spaziali. In: Congresso della Sezione di Psicologia Sperimentale AIP, Pavia, 15-17 Settembre 2014
4. Boccia M., Nemmi F., Tizzani E., Guariglia C., Ferlazzo F., Galati G., Giannini A.M (2012) L'esperienza estetica di opere d'arte ambigue: uno studio fMRI. In: Congresso della Sezione di Psicologia Sperimentale AIP Chieti, 20-22 Settembre 2012
5. Boccia M., Nemmi F., Tizzani E., Guariglia C., Ferlazzo F., Galati G., Giannini A.M (2012). Neuroaesthetics of ambiguous art: viewing Arcimboldo's artworks. In: 1st Visual Science of Art Conference. Alghero, Italy, 1-2 September 2012

### Poster presentations:

1. Boccia M., Teghil A., Raimo S., Di Vita A., Grossi D., Guariglia C., Palermo L. (2021) Neural Underpinning of Interoceptive Awareness after Stroke. 2021 APS Virtual Convention. Maggio 26 - 27, 2021

2. Boccia M., Sulpizio V., Guariglia C., Galati G., (2019) Neural representations underlying mental imagery as unveiled by representation similarity analysis. In: Organization for Human Brain Mapping. Rome, Italy. June 9-13, 2019
3. Boccia, M., Bonavita, A., Diana, S., Di Vita, A., Ciurli, M. P., & Guariglia, C. (2019) No longer lost: theoretical and clinical insights from neuropsychological rehabilitation of acquired topographical disorientation. In: 7th Conference of the European Societies of Neuropsychology, Milan, Italy. September 5-7, 2019
4. Boccia M., Sulpizio V., Teghil A., Palermo L., Piccardi L., Galati G., Guariglia C. (2018) Different dynamic mechanisms underlie imagery and perception within the high-level visual cortex. In: European Workshop on Imagery and Cognition. Padua, June 7-9, 2018
5. Boccia, M., Di Vita, A., Diana, S., Margiotta, R., Imbriano, L., Rendace, L., . . . Guariglia, C. (2018). Il deficit di memoria topografica come marker neuropsicologico dell'invecchiamento patologico. In: Convegno annuale della Società Italiana di Neuropsicologia, Roma. Novembre, 23-24, 2018
6. Boccia, M., Di Vita, A., Palermo, L., Committeri, G., Piccardi, L., Guariglia, C. (2017) The way to "left" Piazza del Popolo: damage to white matter tracts in imaginal neglect for places. In: 6th Conference of the European Societies of Neuropsychology, Maastricht, Netherlands 12-15 Settembre 2017
7. Boccia M., Silveri M.C., Sabatini U., Guariglia C., Nemmi F. (2015) Spatial cognition shows quantitative rather than qualitative deficit in aMCI compared to healthy elderly. In: 5th Conference of the European Societies of Neuropsychology, Tampere, Finland 9-11 settembre 2015
8. Boccia M., Barbetti S., Margiotta R., Guariglia C., Ferlazzo F., Giannini A.M. (2014) Why do you like Arcimboldo's? Effect of perceptual style on aesthetic appreciation of ambiguous artworks. In Congresso Annuale della Società Italiana di Psicofisiologia, Neuropsychological Trends – 16/2014
9. Boccia M., Sulpizio V., Nemmi F., Guariglia C., Galati G. (2013) Una via parieto-temporo mediale per i processi visuo-spaziali: uno studio di connettività funzionale. In: Congresso della Sezione di Psicologia Sperimentale AIP Roma 16-18 settembre 2013
10. Boccia M., Nemmi F., Guariglia C. (2012). Meta-analysis about neural correlates of human navigation: what we know and what we don't know. In: The 8th FENS Forum of Neuroscience. Barcelona, Spain, 14-18 July, 2012
11. Boccia M., Silveri M.C., Guariglia C. (2011). Priming percettivo nel Morbo d'Alzheimer. In: XVII CONGRESSO NAZIONALE DELLA SEZIONE DI PSICOLOGIA SPERIMENTALE. Catania, 14-16 settembre 2011

#### *Other dissemination activities*

1. Intervento sulla neuroestetica nell'ambito della giornata dedicate a Darwin "DARWIN DAY - NATI COSÌ MA VENUTI DA CHI?" presso il Liceo T. Mamiani di Roma 2016 [https://roma.repubblica.it/cronaca/2016/02/10/foto/roma\\_al\\_mamiani\\_si\\_festeggia\\_il\\_darwin\\_day-133135682/1/](https://roma.repubblica.it/cronaca/2016/02/10/foto/roma_al_mamiani_si_festeggia_il_darwin_day-133135682/1/)
2. Intervista per "Il corriere della Sera" del 17 agosto 2019 a cura di Danilo di Diodoro nell'ambito della riserva cognitiva e decadimento cognitivo <https://www.corriere.it/salute/neuroscienze/cards/visitare-musei-mostre-potenzia-memoria/due-meccanismi.shtml>
3. Annuario della ricerca IRCCS Santa Lucia (2019) PROGETTI IN EVIDENZA | HIGHLIGHTS della linea D. Riportato ne "Il fatto quotidiano" del 14 OTTOBRE 2020 a cura di Silvia D'Onghia <https://www.ilfattoquotidiano.it/in-edicola/articoli/2020/10/14/tutte-le-donne-del-santa-lucia-la-fanta-scienza-della-neuroriabilitazione/5963200/>
4. Risultati del team di ricerca diretto dalla Prof.ssa Cecilia Guariglia circa il ruolo del disorientamento topografico nel decadimento cognitivo (descritti in Boccia et al., J Alzheimers Dis, 68(2), 679-693) [https://www.lescienze.it/lanci/2019/04/02/news/il\\_disorientamento\\_come\\_segno\\_di\\_decadimento\\_cognitivo\\_i\\_deficit\\_di\\_memoria\\_spaziale\\_e\\_ora\\_associato\\_all\\_invecchiamento\\_pa-4355179/](https://www.lescienze.it/lanci/2019/04/02/news/il_disorientamento_come_segno_di_decadimento_cognitivo_i_deficit_di_memoria_spaziale_e_ora_associato_all_invecchiamento_pa-4355179/)
5. "Invecchiamento 2.0", professionisti ed esperti del settore a confronto su prevenzione e buone abitudini <https://www.avellinotoday.it/salute/invecchiamento-due-punto-zero-convegno-6-maggio-2022.html>

#### **Book chapters**

- Boccia M. & Guariglia C. (2021) *Neuropsychological rehabilitation of spatial disorders* in *Cognitive-behavioural rehabilitation* a cura di Carlo Caltagirone, Fabrizio Piras e Paola Imbriani
- Guariglia C. & Boccia M. (2022) *La riabilitazione dei disturbi dell'attenzione e del disorientamento* in *Manuale di riabilitazione neuropsicologica* a cura di Giuseppe Vallar e Costanza Papagno
- Bianchini, F., Verde, P., Boccia, M., Colangeli, S., Piccolo, F., Strollo, F., Greco, A., Guariglia, C., Piccardi, L. (2022) *Predictive role of estradiol levels on spatial orientation skills in women taking oral contraceptives*. In *Spatial Navigation: A Review of Recent Research*, a cura di Luca Oude Vrielink ed. Nova Publisher