

ALICE TEGHIL
alice.teghil@uniroma1.it

Junior assistant professor (04/05/2023-to date), Department of Psychology, Sapienza University of Rome

Education and training

PhD in Behavioral Neuroscience (2020) – Sapienza University of Rome

Psychologist qualification (2018) – Consiglio Nazionale Ordine degli Psicologi (Registration n. 23874)

MSc in Cognitive Neuroscience and Psychological Rehabilitation (cum laude) (2015) – Sapienza University of Rome

BSc in Psychological Sciences and Techniques for the Analysis and Clinical Assessment of Cognitive Processes (cum laude) (2013) – Sapienza University of Rome

Previous research experience

Postdoctoral researcher (11/2020-04/05/2023) – Department of Psychology, Sapienza University of Rome
Scientific collaborator (06/2020-10/2020) – Department of Human Neuroscience, Sapienza University of Rome

Research fellow (01/2020-10/2020) – I.R.C.C.S. Fondazione Santa Lucia, Rome

Scientific collaborator (10/2019-12/2019) – I.R.C.C.S. Fondazione Santa Lucia, Rome

Internship (03/2016-03/2017) – Laboratory of Clinical and Behavioral Neurology, I.R.C.C.S. Fondazione Santa Lucia, Rome

Grants and awards

Starting grant (2022) – Sapienza University of Rome, for the project “Brain correlates of individual differences in retrospective duration processing: a resting-state fMRI study” (AR2221815C09602D)

Starting grant (2021) – Sapienza University of Rome, for the project “Neural correlates of the representation of autobiographical memory along a sagittal mental timeline: an fMRI study” (AR22117A4293B7F5)

Starting grant (2018) – Sapienza University of Rome, for the project “Frequenza temporale e durata percepita degli stimoli: uno studio comportamentale e di neuroimaging sulle differenze individuali” (AR11816421D63BF2)

Presentations

Invited talks

- “Interoceptive processing and time perception in the second range: behavioral and neuroimaging evidence”, Symposium “How internal signals shape cognition” (Organizer: Simona Raimo), In: 11° Congresso della Società Italiana di Neuropsicologia, 18-19/11/2022, Rovereto, Italy
- “Interoceptive processing and time perception: a context-dependent account”, Symposium “Ordinary and altered states of time consciousness” (Organizer: Marc Wittmann), In: 5th International Conference on Time Perspective, 12-16/07/2021
- “Time and space in autobiographical memory”, invited seminary, Memory and Language research group, Centro de Investigação em Ciência Psicológica (CICPSI), Universidade de Lisboa, 11/02/2021

Oral presentations

- **Teghil, A.**, Bonavita, A., Procida, F., Giove, F., Boccia, M. “Temporal organization of episodic autobiographical and experience-near personal semantic memory: an fMRI study” (flash presentation). BrainStorm Time 2022, 23-24/06/2022, Bologna, Italy
- **Teghil, A.**, Bonavita, A., Procida, F., Giove, F., Boccia, M. “Brain correlates of mental self-projection in episodic and semantic autobiographical memory: an fMRI study”. 10° Congresso della Società Italiana di Neuropsicologia, 19-20/11/2021, Modena, Italy

Poster presentations

- **Teghil, A.**, Bonavita, A., Procida, F., Giove, F., Boccia, M. “Intrinsic hippocampal connectivity is associated with individual differences in retrospective duration processing”. 11° Congresso della Società Italiana di Neuropsicologia, 18-19/11/2022, Rovereto, Italy
- Conti, M., **Teghil, A.**, Di Vita, A., Boccia, M. “Lifelong impairment in episodic re-experiencing: neuropsychological insights from a case report”. 11° Congresso della Società Italiana di Neuropsicologia, 18-19/11/2022, Rovereto, Italy
- Bonavita, A., Pirri, L., Ciurli, P., Incoccia, **Teghil, A.**, Boccia, M. “Impact of Traumatic Brain Injury on different formats of topographical representation”. 4th Interdisciplinary Navigation Symposium (iNAV), 14-16/05/2022
- Bonavita, A., **Teghil, A.**, Guariglia, C., Boccia, M. “On the road of memory: investigating the relationship between memory, spatial navigation and Déjà-vu”. XXIX Congresso Nazionale SIPF, 30/09-02/10/2021, Palermo, Italy
- Boccia, M., **Teghil, A.**, Raimo, S., Di Vita, A., Grossi, D., Guariglia, C., Palermo, L. “Neural Underpinning of Interoceptive Awareness after Stroke”. Association for Psychological Science Virtual Convention, 26-27/05/2021
- Boccia, M., **Teghil, A.**, Raimo, S., Di Vita, A., Grossi, D., Guariglia, C., Palermo, L. “Neural underpinnings of interoceptive awareness”. Society for Affective Science Annual Conference, 13-16/04/2021
- **Teghil, A.**, Boccia M., Guariglia, C. “Interoceptive awareness selectively predicts timing accuracy in irregular contexts”. 2nd Conference of the Timing Research Forum, 15-17/10/2019, Querétaro, Mexico
- **Teghil A.**, D’Antonio F., Boccia M., Di Vita A., Zazzaro G., Campanelli A., Trebbastoni A., de Lena C., Ferracuti S., Guariglia C. “Evidence for a selective impairment in contingency learning in Mild Cognitive Impairment patients”. 7th scientific meeting of the Federation of the European Societies of Neuropsychology, 05-07/09/19, Milan, Italy
- **Teghil A.**, Boccia M., Guariglia C. “Interoceptive awareness selectively predicts timing accuracy in irregular contexts”. “Lighting up the Brain”, PhD Neuroscience Symposium, 04/07/2019, Rome, Italy
- Zazzaro G., D’Antonio F, **Teghil A.**, Boccia M., Di Vita A., Coluzza A., Campanelli A., Trebbastoni A., Ferracuti S., de Lena C., Guariglia C. “Time perception and subjective passage of time in prodromal and preclinical phase of dementia: a neuropsychological study”. 14th National Conference of SINdem, 07-09/03/2019, Florence, Italy
- **Teghil A.**, Boccia M., D’Antonio F., Di Vita A., de Lena C., Guariglia C. “Correlati neurali e comportamentali dell’elaborazione temporale su base endogena ed esogena”. 7th Congresso della Società Italiana di Neuropsicologia, 23-24/11/2018, Rome, Italy
- **Teghil A.**, Boccia M., Guariglia C. “Differential influence of Field Dependence-Independence on retrospective time estimation and flicker-induced time dilation”. 1st Joint Conference of SEPEX-SEPNECA-AIP Experimental, 03-06/07/2018, Madrid, Spain
- Boccia M., Sulpizio V., **Teghil A.**, Palermo L., Piccardi L., Galati G., Guariglia C. “Different dynamic mechanisms underlie imagery and perception within the high-level visual cortex”. 16th European Workshop on Imagery and Cognition, 07-09/06/2018, Padua, Italy
- **Teghil A.**, Boccia M., D’Antonio F., Di Vita A., de Lena C., Guariglia C. “Neural substrates of Internally-Based and Externally- Cued Timing: a meta-analytic review of fMRI studies”. 1st Conference of the Timing Research Forum, 23-25/10/2017, Strasbourg, France

Publications

- Boccia M., Raimo S., Di Vita A., **Teghil A.**, Palermo L. (2023) Combining the inner self with the map of the body: evidence for white matter contribution to the relation between interoceptive sensibility and nonaction-oriented body representation. *Neuroscience* 521, 157–165. doi: 10.1016/j.neuroscience.2023.04.021
- Conti M., **Teghil A.**, Di Vita A., Boccia M. (2023) Lifelong impairment in episodic re-experiencing: neuropsychological and neuroimaging examination of a new case of Severely Deficient Autobiographical Memory. *Cortex* 163, 80-91. doi: 10.1016/j.cortex.2023.03.004
- Boccia M., **Teghil A.**, Raimo S., Di Vita A., Grossi D., Guariglia C., Palermo L. (2023) Neural substrates of interoceptive sensibility: An integrated study in normal and pathological functioning. *Neuropsychologia* 183, 108504. doi: 10.1016/j.neuropsychologia.2023.108504
- **Teghil A.**, Bonavita A., Procida F., Giove F., Boccia M. (2023) Intrinsic hippocampal connectivity is associated with individual differences in retrospective duration processing. *Brain Struct Funct.* 228, 687–695. doi: 10.1007/s00429-023-02612-3

- **Teghil A.**, D'Antonio F., Di Vita A., Guariglia C., Boccia M. (2023) Temporal learning in the suprasedond range: insights from cognitive style. *Psychol Res.* 87, 568–582. doi: 10.1007/s00426-022-01667-x
- **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.* 34, 2256-2274. doi: 10.1162/jocn_a_01906
- Palmiero M., Di Vita A., **Teghil, A.** Piccardi L. (2022) The Verbal Judgement Task: normative data of verbal abstract reasoning in a sample of 18 – to 40-years old. *Appl Neuropsychol Adult* 29, 562-569. doi: 10.1080/23279095.2020.1789986
- Moret-Tatay, C., Boccia, M., **Teghil, A.**, Guariglia, C. (2022) Testing a model of human spatial navigation attitudes towards global navigation satellite systems. *Sensors* 22, 3470. doi: 10.3390/ s22093470
- Di Vita A., Vecchione F., Boccia M., Bocchi A., Cinelli M. C., Mirino P., **Teghil A.**, D'Antonio F., de Lena C., Piccardi L., Giannini A. M., Guariglia C. (2022) DiaNe: a new first level computerized tool assessing memory, attention and visuospatial processing to early detect pathological cognitive decline. *J Alzheimer's Dis.* 86, 891-904. doi: 10.3233/JAD-215294
- Bonavita A., **Teghil A.**, Pesola M. C., Guariglia C., Boccia M. (2021) Overcoming the navigational challenges: A novel approach to the study and assessment of topographical orientation. *Behav Res Methods* 54, 752–762. doi: 10.3758/ s13428-021-01666-7
- **Teghil A.**, Bonavita A., Guariglia C., Boccia M. (2021) Commonalities and specificities between environmental navigation and autobiographical memory: A synthesis and a theoretical perspective. *Neurosci Biobehav Rev* 127, 928–945. doi: 10.1 016/j.neubiorev.2021.06.012
- **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, 1327–1335. doi: 10.3758/s13423-021-01906- z
- **Teghil A.**, Di Vita A., Pietranelli V., 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. doi: 10.1016/j.neuropsychologia.2020.107577
- **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: 10.1016/j.cortex.2020.03.021
- **Teghil A.**, Boccia M., Nocera L., Pietranelli V., Guariglia C. (2020) Interoceptive Awareness selectively predicts timing accuracy in irregular contexts. *Behav Brain Res.* 377, 112242. doi: 10.1016/j.bbr.2019.112242
- **Teghil A.**, Boccia M., Bonavita A., Guariglia C. (2019) Temporal features of spatial knowledge: representing order and duration of topographical information. *Behav Brain Res.* 376, 112218. doi: 10.1016/j.bbr.2019.112218
- Boccia M., **Teghil A.**, Guariglia C. (2019) Looking into recent and remote past: meta-analytic evidence for cortical re- organization of episodic autobiographical memories. *Neurosci Biobehav Rev.* 107, 84-95. doi: 10.1016/j.neubiorev. 2019.09.003
- **Teghil A.**, Boccia M., Guariglia C. (2019) Field dependence-independence differently affects retrospective time estimation and flicker-induced time dilation. *Exp Brain Res.* 237, 1019-1029. doi: 10.1007/s00221-019-05485-3
- 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. *Hum Brain Mapp.* 40, 2449-2463. doi: 10.1002/hbm.24535
- **Teghil A.**, Boccia M., D'Antonio F., Di Vita A., de Lena C., Guariglia C. (2019) Neural substrates of Internally-Based and Externally-Cued Timing: an activation likelihood estimation (ALE) meta-analysis of fMRI studies. *Neurosci Biobehav Rev.* 96, 197-209. doi: 10.1016/j.neubiorev.2018.10.003
- Zannino G. D., Perri R., **Teghil A.**, Caltagirone C., Carlesimo G. A. (2018) Associative agreement as a predictor of naming ability in Alzheimer's Disease: a case for the semantic nature of associative links. *Front Behav Neurosci.* 11:261. doi: 10.3389/fnbeh.2017.00261