VALERIO SANTANGELO - CURRICULUM VITAE

Nationality: Italian

Contact: Dept. of Philosophy, Social Sciences & Education
University of Perugia,
Piazza G. Ermini, 1 – 06123 Perugia, Italy
Tel.: +39 075 5854943
E-mail: valerio.santangelo@unipg.it, (alternative) v.santangelo@gmail.com

ORCID: http://orcid.org/0000-0001-9665-8701

WEB: https://www.unipg.it/personale/valerio.santangelo; Human Cognition Unit

EDUCATION:

- 2001-2005: Ph.D. in Cognitive Psychology, Department of Psychology, Sapienza University of Rome, Italy.

- 2002: Certification as Psychologist, Department of Psychology, Sapienza University of Rome, Italy.

- 2000-2001: Master course in Cognitive Psychology and Neural Networks, Department of Psychology, Sapienza University of Rome, Italy.

- 1995-2000: MSc in Experimental Psychology (110/110 cum laude), Department of Psychology, Sapienza University of Rome, Italy.

PROFESSIONAL EXPERIENCE:

- 2022: Fulbright Research Scholar, Department of Psychology, Harvard university, MA, USA.

- 2017-now: National Scientific Qualification as Full Professor, E11, ANVUR, National Agency for Evaluation of University and Research.

- 2015-now: Principal Investigator (PI) of the Human Cognition Unit.

- 2015-now: Associate Professor of General Psychology (M-PSI/01), Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2009-2015: Assistant Professor with tenure of General Psychology (M-PSI/01), Department of Philosophy, Social Sciences & Education, University of Perugia, Italy.

- 2009-now: Scientific collaborator, Neuroimaging Laboratory, IRCCS Santa Lucia Foundation, Rome, Italy.

- 2008: Research Fellow, Cognitive Neuroscience Group, Neuroimaging Laboratory, IRCCS Santa Lucia Foundation, Rome, Italy.

- 2006: Visiting Research Fellow, Crossmodal Lab, Department of Experimental Psychology, University of Oxford, UK.

- 2006-2007: Research Fellow, Cognitive Science and Psychology Lab, Department of Psychology, Sapienza University of Rome, Italy.

- 2004: Visiting Ph.D. student, Neurocognition space group, Department of Psychonomics, Utrecht University, The Nederlands.

RESEARCH TOPICS / EXPERTISE:

Human memory (episodic-autobiographical memory; traumatic memories; memory loss; working memory); Attention & Executive functions; Multisensory processing; Cognitive deficits in the damaged brain;

Functional Magnetic Resonance Imaging (fMRI); Statistical Parametric Mapping (SPM); Functional and Effective Connectivity; Independent Component Analysis; Multi-Voxel Pattern Analysis (MVPA); Eye-Movement Analysis; Neurocomputational Models; Event-Related Brain Potentials (ERPs); Psychophysics; Programming (MatLab).

AWARDS:

- 2022: Fulbright Research Scholarship awarded by the U.S. – Italy Fulbright Commission to develop a research project at the Department of Psychology, Harvard University, MA (USA).

- 2018: Best publication young investigators, University of Perugia: *"Parietal cortex integrates contextual and saliency signals during the encoding of natural scenes in working memory"* (2015, *Human Brain Mapping, 36*, 5003-5017).

- 2006: Annual visiting fellowship (*Borsa di studio per perfezionamento all'estero*) awarded by Sapienza University of Rome to develop a research project at the Department of Experimental Psychology, Oxford University (UK).

- 1996-2000: Annual Grant ADISU (*Azienda per il Diritto allo Studio Universitario*, Italian Grant for University Study, four awards).

CURRENT RESEARCH SUPPORT:

2018-2022: Italian Ministry of Health, Call for Young Researchers 2016, Theory-enhancing: "Don't cry over spilt (formula) milk: Human fMRI correlates of cognitive impairments due to formula feeding and pre-clinical evidence of maternal milk oligosaccharides supplementation as a potential treatment" (GR-2016-02361921; Overall budget: € 449.941; Duration: 36 months). Role: PI Unit IRCCS Santa Lucia Foundation, behavioral and fMRI studies on selective attention and working memory capacity (Unit budget: € 157.780).

2017-2019: Italian Ministry of Education, University and Research (MIUR), Italian Antartic Research Program - Call 2016 – Line A2: "Effects of extreme environments on psychophysiology, energy metabolism and immunity: neuropsychological, immunohistochemical, proteomic and fMRI studies" (PNRA16_00047; Overall budget: € 113.550; Duration: 24 months). Role: PI Unit University of Perugia, behavioral and fMRI studies on selective attention and working memory capacity (Unit budget: € 18.000).

2021-2023: Bial Foundation, Scientific Research - Grants 2020/2021: "Psychophysiology of Highly Superior Autobiographical Memory: Shedding light on the mind of people who never forget" (Project no: 75/20; Budget: € 48.000; Duration: 24 months). Role: project PI.

2021-2024: EU - Umbria region PSR - Innovation Project 2014-2020: "DOPUP: Dop Olive oil for a new Presence of Umbria on the Planet" (Overall budget: € 600.000; Duration: 36 months). Role: PI Unit (with prof. C. Mazzeschi) Department of Philosophy, Social Sciences & Education, University of Perugia, evaluation of sensory perception of olive oil (Unit budget: € 48.000).

2021-2024: Italian Ministry of Health, Call 2019 - Change-promoting (Ricerca Finalizzata, RF): "Leveraging the neural circuits of hypermemory to ameliorate memory dysfunction in prodromal Alzheimer's disease" (RF-2019-12369567; Overall budget: € 449.230; Duration: 36 months). Role: project CO-PI (with prof. P. Campolongo) and PI Unit Santa Lucia Foundation, IRCCS, behavioral and fMRI studies of Highly Superior Autobiographical Memory (HSAM) (Unit budget: € 161.000).

2023-2025: Italian Ministry of University and Research (MUR), Prin 2022 PNRR (Settore SH4): "Illuminating the dark side of hypermemory" (CUP: J53D23017260001; Overall budget: € 224.879; Duration: 24 months). Role: project PI and PI unit Unipg, behavioral and fMRI studies of Highly Superior Autobiographical Memory (HSAM) (Unit budget: € 121.898).

PROJECT CONSULTANT ACTIVITY:

2015-2018: Italian Ministry of Health, Call for Young Researchers 2013, Clinical health care research: "Mapping spatial neglect symptoms in the brain: A study combining behavioural data, functional neuroimaging, and computational modelling" (GR-2013-02358098; Overall budget: € 384.500; Duration: 36 months). PI: dr. B. Spano'. Role: supervision of fMRI studies.

2021-2024: Italian Ministry of Health, Call for Young Researchers 2019, Change-promoting: "integrating cannabinoids into the treatment of Posttraumatic Stress Disorder: exploring mechanisms of amygdala-hippocampal communication during importation contextualization" (GR-2019-12369216; Overall budget: € 449.980; Duration: 36 months). PI: dr. M. Morena. Role: supervision of fMRI studies.

2021-2023: Regione Lazio, Bando LazioInnova, "Progetti di Gruppi di Ricerca 2020": "La nanomedicina incontra le neuroscienze: sviluppo di una strategia terapeutica innovativa per i deficit cognitivi correlati a sindrome metabolica" (*Nanomedicine meets neuroscience: development of an innovative therapeutic strategy for cognitive deficits related to metabolic syndrome*) (Prot. 36526; Overall budget: € 149.727,90; Duration: 24 months). PI: prof. P. Campolongo. Role: supervision of fMRI studies.

PROJECT EVALUATION PANELS:

- 2016-now: Italian Ministry of Education, University and Research (MIUR).

- 2021-now: Istituto Superiore di Sanità (ISS).

- 2022-now: Fulbright Commission.

EDITORIAL ACTIVITIES:

- Cognitive Processing: Vice Editor-in-Chief (https://www.springer.com/journal/10339/editors).

- Brain Sciences, section "Systems Neuroscience": Associate Editor (https://www.mdpi.com/journal/brainsci/sectioneditors/Systems_Neuroscience).

- Brain Sciences, section "Social Cognitive and Affective Neuroscience Section": Associate Editor (https://www.mdpi.com/journal/brainsci/sectioneditors/Social_Cognitive_Affective_Neuroscience).

- Frontiers in Integrative Neuroscience: Associate Editor (https://www.frontiersin.org/journals/integrative-neuroscience#editorial-board).

- Frontiers in Psychology, section "Consciousness Research": Associate Editor (https://www.frontiersin.org/journals/psychology/sections/consciousness-research#editorial-board).

- Frontiers in Psychology, section "Cognition": Associate Editor (https://www.frontiersin.org/journals/psychology/sections/cognition#editorial-board).

- Frontiers in Behavioral Neuroscience, section "Learning and Memory": Associate Editor (https://www.frontiersin.org/journals/behavioral-neuroscience/editors).

ONGOING INTERNATIONAL COOPERATIONS (selected):

- Oxford University, UK (Prof. Charles Spence).

- University of Harvard, USA (Prof. Daniel L. Schacter).

- University of Granada, Spain (Prof. Juan Lupianez).

- University of Lyon, FR (Prof. Emiliano Macaluso).

- University of Twente, NL (Prof. Rob H. J. van der Lubbe).

PROFESSIONAL MEMBERSHIPS:

- Full member of the Italian Psychological Association, AIP (since 2015).

- Full member of the European Society for Cognitive Psychology, ESCOP (since 2013).

- Full member of the Italian Society of Neurosciences, SINS (since 2017).

- Member of ECONA, Interuniversity Centre for Research on Cognitive Processing in Natural and Artificial Systems (since 2009). 2017-2020, member of the Scientific Committee of ECONA.

ACADEMIC ACTIVITIES:

- 2018-now: Expert for the evaluation of university programs (*Esperto disciplinare per la valutazione dei corsi di studio*), ANVUR (National Agency for Evaluation of University and Research).

- 2022-now: Research Delegate (*Delegato per la Ricerca*), Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2018-2021: Responsible of Quality Assurance (*Responsabile Qualità*) for the Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2015-2018: Responsible of Quality Assurance (*Responsabile Qualità*) for the Master Course in Psychology, Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2014-2015: Responsible of Quality Assurance (*Responsabile Qualità*) for the Undergraduate Course in Psychology, Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2014-2019: Member of the Departmental Joint Teaching-Student Committee (*Commissione Paritetica Docenti-Studenti*), Department of Philosophy, Social Sciences & Education, University of Perugia.

- 2015-now: Professor of "Cognitive assessment through neuroimaging", Master Course in Psychology, Department of Philosophy, Social Sciences & Education, University of Perugia, Italy.

- 2011-now: Professor of "Cognitive Psychology", Undergraduate Course in Psychology, Department of Philosophy, Social Sciences & Education, University of Perugia, Italy.

- 2009-2011: Professor of "Psychometrics", Undergraduate Course in Psychology, Department of Philosophy, Social Sciences & Education, University of Perugia, Italy.

- 2014-now: Member of the Ph.D. program in "Human Sciences", Psychological section, University of Perugia, Italy.

- 2009-2014: Member of the Ph.D. program in "Cognitive Psychology and Psychophysiology", Sapienza University of Rome, Italy.

- 2002-now: Supervisor of undergraduate, graduate and Ph.D. students.

BIBLIOMETRIC INDICATORS:

Scopus: H-index = 28; Total citations= 1776 (https://www.scopus.com/authid/detail.uri?authorId=8624582600).

Scholar: H-index = 31; Total Citations= 2646 (https://scholar.google.co.uk/citations?user=p5IBI7AAAAAJ&hl=it).

Author of more than 60 peer-reviewed publications, including research articles in high-impact journals such as PNAS, Cortex, Journal of Neuroscience and Neuron, as well as international and national book chapters. Author of more than 70 contributions (oral presentations/posters) to national and international conferences. Organizer of several symposia with international speakers. Invited speaker at several national and international symposia and lectures.

RESEARCH DISSEMINATION ON NATIONAL AND INTERNATIONAL MEDIA (selection of the most relevant):

- Rai 1 - Superquark: https://www.youtube.com/watch?v=C0ZsmVmPAHo Superquark Ipertimesia SUB ENG (youtube.com)

- Sky Tg24: https://tg24.sky.it/scienze/2020/06/10/scoperta-chiave-super-memoria

- Radio 24: https://www.radio24.ilsole24ore.com/programmi/obiettivo-salute/puntata/datare-ricordi--menopausa-100614-AD6fE9W

- International Quarz TV: https://qz.com/1738526/people-with-hsam-may-hold-the-secret-to-memory-improvement/

- Il Messaggero: https://www.ilmessaggero.it/scienza/memoria_ricerca_chi_ricorda_tutto_cervello_segreto-5281460.html

- La Repubblica: https://www.repubblica.it/scienze/2020/06/09/news/scoperto_il_meccanismo_chiave_dell_iper_memoria_-258788822/

- Corriere della sera: https://www.corriere.it/salute/neuroscienze/18_luglio_10/gli-otto-italiani-super-memoria-ricordano-cosa-indossavano-anni-fa-37b05a76-8447-11e8-a3ad-a03e04fe079c.shtml

La Nazione: https://www.lanazione.it/umbria/cronaca/memoria-1.4030021, https://www.lanazione.it/umbria/cronaca/svelati-i-segreti-dell-ipermemoria-1.5204334

LIST OF INTERNATIONAL PEER-REVIEWED PUBLICATIONS (70):

- Salsano, I., Tain, R., Giulietti, G., Williams, D. P., Ottaviani, C., Antonucci, G., Thayer, J. F., & **Santangelo, V.** (in press). Negative emotions enhance memory-guided attention in a visual search task by increasing frontoparietal, insular, and parahippocampal cortical activity. *Cortex, 173*, 16-33. https://doi.org/10.1016/j.cortex.2023.12.014

- Rizza, A., Pedale, T., Mastroberardino, S., Olivetti Belardinelli, M., Van der Lubbe, R. H. J., Spence, C., & **Santangelo, V.** (2024). Working memory maintenance of visual and auditory spatial information relies on supramodal neural codes in the dorsal frontoparietal cortex. *Brain Sciences, 14*, 123. https://doi.org/10.3390/brainsci14020123

- Zoratto, F., Pisa, E., Soldati, C., Barezzi, C., Ottomana, A. M., Presta, M., **Santangelo, V.**, & Macrì, S. (2023). Automation at the service of the study of executive functions in preclinical models. *Scientific Reports, 13*:16890. https://doi.org/10.1038/s41598-023-43631-8

- Dupont, L., **Santangelo, V.**, Azevedo, R. T., Panasiti, M. S., & Aglioti, S. M. (2023). Reputation risk during dishonest social decision-making modulates anterior insular and cingulate cortex activity and connectivity. *Communications Biology, 6*:475. https://doi.org/10.1038/s42003-023-04827-w

- Daviddi, S., Pedale, T., St. Jacques, P. L., Schacter, D. L., & **Santangelo, V.** (2023). Common and distinct correlates of construction and elaboration of episodic-autobiographical memory: An ALE meta-analysis. *Cortex, 163*, 123-138. https://doi.org/10.1016/j.cortex.2023.03.005

- Capurso, M., Pedale, T., **Santangelo, V.**, Pagano Salmi, L., & Mazzeschi, C. (2023). Italian children's accounts of the lockdown: Insights and perspectives. *Journal of Child and Family Studies, 32*, 145-159. https://doi.org/10.1007/s10826-022-02508-6

- Pedale, T., Mastroberardino, S., Del Gatto, C., Capurso, M., Bellagamba, F., Addessi, E., Macrì, S., & **Santangelo, V.** (2023). Searching for a relationship between early breastfeeding and cognitive

development of attention and working memory capacity. *Brain Sciences, 13*, 53. https://doi.org/10.3390/brainsci13010053

- **Santangelo, V.**, Macrì, S., & Campolongo, P. (2022). Superior memory as a new perspective to tackle memory loss. *Neuroscience and Biobehavioral Reviews, 141*:104828. https://doi.org/10.1016/j.neubiorev.2022.104828

- Daviddi, S., Orwig, W., Palmiero, M., Campolongo, P., Schacter D. L., & **Santangelo, V.** (2022). Individuals with highly superior autobiographical memory do not show enhanced creative thinking. *Memory, 30*, 1148-1157. https://doi.org/10.1080/09658211.2022.2094416

- **Santangelo, V.** (2022). On the contribution of the ventromedial prefrontal cortex to the neural representation of past memories. *Cognitive Neuroscience, 13*, 154-155. http://dx.doi.org/10.1080/17588928.2022.2076072

- Pedale, T., Mastroberardino, S., Capurso, M., Macrì, S., & **Santangelo, V.** (2022). Developmental differences in the impact of perceptual salience on short-term memory performance and meta-memory skills. *Scientific Reports, 12*: 8185. https://doi.org/10.1038/s41598-022-11624-8

- Daviddi, S., Mastroberardino, S., St. Jacques P. L., Schacter D. L., & **Santangelo, V.** (2022). Remembering a virtual museum tour: Viewing time, memory reactivation, and memory distortion. *Frontiers in Psychology – Neuropsychology, 13:869336.* (Research Topic: "Virtual, Mixed, and Augmented Reality in Cognitive Neuroscience and Neuropsychology", A. Salatino, D. Burin, & M. Ziat, Eds.) https://doi.org/10.3389/fpsyg.2022.869336

- Spanò B., Nardo, D., Giulietti, G., Matano, A., Salsano, I., Briani, C., Vadalà, R., Marzi, C., De Luca, M., Caltagirone, C., & **Santangelo, V.** (2022). Left egocentric neglect in early subacute right-stroke patients is related to damage of the superior longitudinal fasciculus. *Brain Imaging and Behavior, 16*, 211-218. https://doi.org/10.1007/s11682-021-00493-w

- Daviddi, S., Pedale, T., Serra, L., Macrì, S., Campolongo. P., & **Santangelo, V.** (2022). Altered hippocampal resting-state functional connectivity in highly superior autobiographical memory. *Neuroscience, 480*, 1-8. https://doi.org/10.1016/j.neuroscience.2021.11.004

- Almadori, E., Mastroberardino, S., Botta, F., Brunetti, R., Lupianez, J., Spence, C., & **Santangelo, V.** (2021). Crossmodal semantic congruence interacts with object contextual consistency in complex visual scenes to enhance short-term memory performance. *Brain Sciences, 11*, 1206. https://doi.org/10.3390/brainsci11091206

- **Santangelo, V.**, Pedale, T., Colucci, P., Giulietti, G., Macrì, S., & Campolongo, P. (2021). Highly superior autobiographical memory in aging: A single case study. *Cortex, 143*, 267-280. https://doi.org/10.1016/j.cortex.2021.05.011

- Botta, F., Lupiáñez, J., **Santangelo, V.**, & Martín-Arévalo, E. (2021). Transcranial magnetic stimulation of the right superior parietal lobule modulates the retro-cue benefit in visual short-term memory. *Brain Sciences, 11*, 252. https://doi.org/10.3390/brainsci11020252

- Pedale, T., Mastroberardino, S., Capurso, M., Bremner, A. J., Spence, C., & **Santangelo, V.** (2021). Crossmodal spatial distraction across the lifespan. *Cognition, 210*: 104617. https://doi.org/10.1016/j.cognition.2021.104617

- Salsano, I., **Santangelo, V.**, & Macaluso, E. (2021). The lateral intraparietal sulcus takes viewpoint-changes into account during memory-guided attention in natural scenes. *Brain Structure and Function, 226*, 989-1006. https://doi.org/10.1007/s00429-021-02221-y
- Nigro, P., Chiappiniello, A., Simoni, S., Paolini Paoletti, F., Cappelletti, G., Chairini, P. O., Filidei, M., Eusebi, P., Guercini, G., **Santangelo, V.**, Tarducci, R., Calabresi, P., Parnetti, L., & Tambasco, N. (2021). Changes of olfactory tract in Parkinson's disease: a DTI-tractography study. *Neuroradiology, 63*, 235-242. https://doi.org/10.1007/s00234-020-02551-4
- Scalici, F., Carlesimo, G. A., **Santangelo, V.**, Barban, F., Macaluso, E., Caltagirone, C., & Costa, A. (2021). Does cue focality modulate age-related performance in prospective memory? An fMRI investigation. *Experimental Aging Research, 47*, 1-20. https://doi.org/10.1080/0361073X.2020.1839310
- Simoni, S., Paolini Paoletti, F., Eusebi, P., Cappelletti, G., Filidei, M., Brahimi, E., Nigro, P., **Santangelo, V.**, Parnetti, L., Calabresi, P., & Tambasco, N. (2020). Impulse control disorders and levodopa-induced dyskinesias in Parkinson's disease: Pulsatile versus continuous dopaminergic stimulation. *Journal of Parkinson's Disease,* 10, 927-934. https://doi.org/10.3233/jpd-191833
- **Santangelo, V.**, Pedale, T., Macrì, S., & Campolongo (2020). Enhanced cortical specialization to distinguish older and newer memories in highly superior autobiographical memory. *Cortex,* 129, 476-483. https://doi.org/10.1016/j.cortex.2020.04.029
- Capurso, M., Rossetti, C., Mutti, L., Ciani, A., & **Santangelo, V.** (2020). A low cost, volunteer-based program to prepare children to undergo magnetic resonance imaging without sedation. *Children's Health Care,* 49, 1-19. https://doi.org/10.1080/02739615.2018.1545581
- Pedale, T., Macaluso, E., & **Santangelo, V.** (2019). Enhanced insular/prefrontal connectivity when resisting from emotional distraction during visual search. *Brain Structure and Function, 224*, 2009-2026. https://doi.org/10.1007/s00429-019-01873-1
- **Santangelo, V.**, & Bordier, C. (2019). Large-scale brain networks underlying successful and unsuccessful encoding, maintenance, and retrieval of everyday scenes in visuospatial working memory. *Frontiers in Psychology, 10*, 233. (Research topic: "Toward an ecological approach to human memory", M. Sperduti, V. La Corte, P. Piolino, & S. Serino, Eds.) https://doi.org/10.3389/fpsyg.2019.00233
- Cavallina, C., Puccio, G., Capurso, M., Bremner, A. J., & **Santangelo, V.** (2018). Cognitive development attenuates audiovisual distraction and promotes the selection of task-relevant perceptual saliency during visual search on complex scenes. *Cognition, 180*, 91-98. https://doi.org/10.1016/j.cognition.2018.07.003
- **Santangelo, V.**, Cavallina, C., Colucci, P., Santori, A., Macrì, S., McGaugh, J. L., & Campolongo, P. (2018). Enhanced brain activity associated with memory access in highly superior autobiographical memory. *Proceedings of the National Academy of Sciences of the United States of America*, *115*, 7795-7780. https://doi.org/10.1073/pnas.1802730115
- **Santangelo, V.** (2018). Large-scale brain networks supporting divided attention across spatial locations and sensory modalities. *Frontiers in Integrative Neuroscience, 12*, 8. (Research topic: "Sensory-motor aspects of nervous systems disorders: Insights from biosensors and smart technology in the dynamic assessment of disorders, their progression, and treatment outcomes", E. B. Torres, Ed.) https://doi.org/10.3389/fnint.2018.00008
- Brunetti, R., Indraccolo, A., Del Gatto, C., Spence, C., & **Santangelo, V.** (2018). Are crossmodal correspondences relative or absolute? Sequential effects on speeded classification. *Attention, Perception & Psychophysics, 80*, 527-534. https://doi.org/10.3758/s13414-017-1445-z

- Buttafuoco, A., Pedale, T., Buchanan, T., & **Santangelo, V.** (2018). Only "efficient" emotional stimuli affect the content of working memory during free-recollection from natural scenes. *Cognitive Processing, 19*, 125-132. https://doi.org/10.1007/s10339-017-0846-1
- Pedale, T., Basso, D., & **Santangelo, V.** (2017). Processing of negative stimuli facilitates event-based prospective memory only under low memory load. *Journal of Cognitive Psychology, 29*, 920-928. https://doi.org/10.1080/20445911.2017.1329204
- Russo, A., Buratta, L., Pippi, R., Aiello, C., Ranucci, C., Reginato, E., **Santangelo, V.**, De Feo, P., & Mazzeschi, C. (2017). Effect of training exercise on urinary brain-derived neurotrophic factor levels and cognitive performances in overweight and obese subjects: A pilot study. *Psychological Reports, 120*, 70-87. https://doi.org/10.1177/0033294116679122
- Brunetti, R., Indraccolo, A., Mastroberardino, S., Spence, C., & **Santangelo, V.** (2017). The impact of cross-modal correspondences on working memory performance. *Journal of Experimental Psychology: Human Perception and Performance, 43*, 819-831. https://doi.org/10.1037/xhp0000348
- **Santangelo, V.**, Di Francesco, S. A., Mastroberardino, S., & Macaluso, E. (2015). Parietal cortex integrates contextual and saliency signals during the encoding of natural scenes in working memory. *Human Brain Mapping, 36*, 5003-5017. https://doi.org/10.1002/hbm.22984
- Mastroberardino, S., **Santangelo, V.**, & Macaluso, E. (2015). Crossmodal semantic congruence can affect visuo-spatial processing and activity of the fronto-parietal attention networks. *Frontiers in Integrative Neuroscience, 9*, 45. (Research topic: "A matter of bottom-up or top-down processes: The role of attention in multisensory integration", R. Adam, S. Soto-Faraco, & J. Hartcher-O'Brien, Eds.) https://doi.org/10.3389/fnint.2015.00045
- Pedale, T., & **Santangelo, V.** (2015). Perceptual salience affects the contents of working memory during free-recollection of objects from natural scenes. *Frontiers in Human Neuroscience, 9*, 60:1-8 (Research Topic: "Turning the Mind's Eye Inward: The Interplay between Selective Attention and Working Memory", E. Abrahamse, J.-P. van Dijck, S. Majerus, & W. Fias, Eds.) https://doi.org/10.3389/fnhum.2015.00060
- **Santangelo, V.** (2015). Forced to remember: When memory is biased by salient information. *Behavioural Brain Research, 283*, 1-10. https://doi.org/10.1016/j.bbr.2015.01.013
- Nardo, D., **Santangelo, V.**, & Macaluso, E. (2014). Spatial orienting in complex audiovisual environments. *Human Brain Mapping, 35*, 1597-1614. https://doi.org/10.1002/hbm.22276
- Azevedo, R. T., Macaluso, E., Avenanti, A., **Santangelo, V.**, Cazzato, V., & Aglioti, S. M. (2013). Their pain is not our pain: Brain and autonomic correlates of empathic resonance with the pain of same and different-race individuals. *Human Brain Mapping, 34*, 3168-3181. https://doi.org/10.1002/hbm.22133
- **Santangelo, V.**, & Macaluso, E. (2013). Visual salience improves spatial working memory via enhanced parieto-temporal functional connectivity. *Journal of Neuroscience, 33*, 4110-4117. https://doi.org/10.1523/jneurosci.4138-12.2013
- **Santangelo, V.**, & Macaluso, E. (2013). The contribution of working memory to divided attention. *Human Brain Mapping, 34*, 158-175. https://doi.org/10.1002/hbm.21430
- **Santangelo, V.**, & Macaluso, E. (2012). Spatial attention and audiovisual processing. In: B. E. Stein (Ed.), *The New Handbook of Multisensory Processing* (pp. 359-370). Cambridge, MA: The MIT Press. https://mitpress.mit.edu/books/new-handbook-multisensory-processing
- Spence, C., & **Santangelo, V.** (2012). Auditory attention. In: C. Plack (Ed.), *Oxford Handbook of Auditory Science: Hearing* (pp. 249-270). Oxford, UK: Oxford University Press. https://doi.org/10.1093/oxfordhb/9780199233557.013.0011

- Botta, F., **Santangelo, V.**, Raffone, A., Sanabria, D., Lupiáñez, J., & Olivetti Belardinelli, M. (2011). Multisensory integration affects visuo-spatial working memory. *Journal of Experimental Psychology: Human Perception and Performance, 37*, 1099-1109. https://doi.org/10.1037/a0023513
- Nardo, D., **Santangelo, V.**, & Macaluso, E. (2011). Stimulus-driven orienting of visuo-spatial attention in complex dynamic environments. *Neuron, 69*, 1015-1028. https://doi.org/10.1016/j.neuron.2011.02.020
- **Santangelo, V.**, Botta, F., Lupiáñez, J., & Spence, C. (2011). The time-course of attentional capture under dual-task conditions. *Attention, Perception & Psychophysics, 73*, 15-23. https://doi.org/10.3758/s13414-010-0017-2
- Barban, F., Zannino, G. D., **Santangelo, V.**, Serra, L., Macaluso, E., Caltagirone, C., & Carlesimo, G. A. (2010). Amblyopic dyslexia: A little investigated reading disorder. *Neurocase, 16*, 397-407. https://doi.org/10.1080/13554791003620298
- Botta, F., **Santangelo, V.**, Raffone, A., Olivetti Belardinelli, M., & Lupianez, J. (2010). Exogenous and endogenous spatial attention effects on visuospatial working memory. *Quarterly Journal of Experimental Psychology, 63*, 1590-1602. https://doi.org/10.1080/17470210903443836
- **Santangelo, V.**, Fagioli, S. & Macaluso, E. (2010). The costs of monitoring simultaneously two sensory modalities decrease when dividing attention in space. *NeuroImage, 49*, 2717-2727. https://doi.org/10.1016/j.neuroimage.2009.10.061
- Spence, C., & **Santangelo, V.** (2009). Capturing spatial attention with multisensory cues: A review. *Hearing Research, 258*, 134-142. https://doi.org/10.1016/j.heares.2009.04.015
- **Santangelo, V.**, Olivetti Belardinelli, M., Spence, C. & Macaluso, E. (2009). Interactions between voluntary and stimulus-driven spatial attention mechanisms across sensory modalities. *Journal of Cognitive Neuroscience, 21*, 2384-2397. https://doi.org/10.1162/jocn.2008.21178
- Mastroberardino, S., & **Santangelo, V.** (2009). New perspectives in assessing deception: The evolution of the truth machine. *European Journal of Cognitive Psychology, 21*, 1085-1099. https://doi.org/10.1080/09541440802678347
- Dalton, P., **Santangelo, V.**, & Spence, C. (2009). The role of working memory in auditory selective attention. *Quarterly Journal of Experimental Psychology, 62*, 2126-2132. https://doi.org/10.1080/17470210903023646
- Ho, C., **Santangelo, V.**, & Spence, C. (2009). Multisensory warning signals: When spatial correspondence matters. *Experimental Brain Research, 195*, 261-272. https://doi.org/10.1007/s00221-009-1778-5
- **Santangelo, V.**, & Spence, C. (2009). Crossmodal exogenous orienting improves the accuracy of temporal order judgments. *Experimental Brain Research, 194*, 577-586. https://doi.org/10.1007/s00221-009-1734-4
- **Santangelo, V.**, & Spence, C. (2008). Is the exogenous orienting of spatial attention truly automatic? Evidence from unimodal and multisensory studies. *Consciousness and Cognition, 17*, 989-1015. https://doi.org/10.1016/j.concog.2008.02.006
- **Santangelo, V.**, Ho, C., & Spence, C. (2008). Capturing spatial attention with multisensory cues. *Psychonomic Bulletin & Review, 15*, 398-403. https://doi.org/10.3758/pbr.15.2.398
- Mastroberardino, S., **Santangelo, V.**, Botta, F., Marucci, F. S., Olivetti Belardinelli, M. (2008). How the bimodal format of presentation affects working memory: An overview. *Cognitive Processing, 9*, 69-76. (Special Isssue on: "Domain-general and Domain-specific Components of Working Memory", H. D. Zimmer, Ed.) https://doi.org/10.1007/s10339-007-0195-6

- **Santangelo, V.**, & Spence, C. (2008). Crossmodal attentional capture in an unspeeded simultaneity judgment task. *Visual Cognition, 16*, 155-165. (Special Isssue on: "Attentional Capture", B. S. Gibson, C. Folk, J. Theeuwes, & A. Kingstone, Eds.) https://doi.org/10.1080/13506280701453540
- **Santangelo, V.**, Van der Lubbe, R. H. J., Olivetti Belardinelli, M., & Postma, A. (2008). Multisensory integration affects ERP components elicited by exogenous cues. *Experimental Brain Research, 185*, 269-277. https://doi.org/10.1007/s00221-007-1151-5
- **Santangelo, V.**, Finoia, P., Raffone, A., Olivetti Belardinelli, M., & Spence, C. (2008). Perceptual load affects exogenous spatial orienting while working memory load does not. *Experimental Brain Research, 184*, 371-382. https://doi.org/10.1007/s00221-007-1108-8
- **Santangelo, V.**, & Spence, C. (2007). Multisensory cues capture spatial attention regardless of perceptual load. *Journal of Experimental Psychology: Human Perception and Performance, 33*, 1311-1321. https://doi.org/10.1037/0096-1523.33.6.1311
- **Santangelo, V.**, & Spence, C. (2007). Assessing the automaticity of the exogenous orienting of tactile attention. *Perception, 36*, 1497-1505. https://doi.org/10.1068/p5848
- Olivetti Belardinelli, M., **Santangelo, V.**, Botta, F., & Federici, S. (2007). Are vertical meridian effects due to audio-visual interference? A new confirmation with deaf subjects. *Disability & Rehabilitation, 29*, 797-804. https://doi.org/10.1080/09638280600919780
- **Santangelo, V.**, Olivetti Belardinelli, M., & Spence, C. (2007). The suppression of reflexive visual and auditory orienting when attention is otherwise engaged. *Journal of Experimental Psychology: Human Perception and Performance, 33*, 137-148. https://doi.org/10.1037/0096-1523.33.1.137
- **Santangelo, V.**, & Spence, C. (2007). Assessing the effect of verbal working memory load on visuo-spatial exogenous orienting. *Neuroscience Letters, 413*, 105-109. https://doi.org/10.1016/j.neulet.2006.11.037
- **Santangelo, V.**, Van der Lubbe, R. H. J., Olivetti Belardinelli, M., & Postma, A. (2006). Spatial attention triggered by unimodal, crossmodal, and bimodal exogenous cues: A comparison on reflexive orienting mechanisms. *Experimental Brain Research, 173*, 40-48. https://doi.org/10.1007/s00221-006-0361-6
- Olivetti Belardinelli, M., & **Santangelo, V.** (2005). The head-centered meridian effect: Auditory attention orienting in conditions of impaired visuo-spatial information. *Disability & Rehabilitation, 27*, 761-768. https://doi.org/10.1080/09638280400014824
- **Santangelo, V.**, & Olivetti Belardinelli, M. (2002). Spatial modeling: Simulating place cells activity by an action potential timing network. *Cognitive Processing, 3*, 123-129.