

DR. CARMELO MARIO VICARIO

PERSONAL INFORMATION

Date of Birth: 06/08/1979

Nationality: Italian

Active email addresses: c.m.vicario@bangor.ac.uk - carmelo.vicario@uniroma1.it - carmelo.vicario@pec.it - carmelo.vicario@utas.edu.au -

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Address: School of Psychology, University of Tasmania, Hobart, Australia.

Current positions: *Intensive Research Fellow*, University of Tasmania, AU. *Honorary Lecture*, Bangor University, Wales, UK. *Adjunct Assistant Professor in psychology*, University of Maryland University College Europe, Sigonella, Sicily, Italy. *Expert Evaluator*, European Commission, Research Executive Agency.

Profile: European Doctor in "*Neuroplasticity and Rehabilitation of Cognitive Functions*". Researcher with a solid background in psychophysics, neuropsychology, neurophysiology and cognitive science. Experience in neurophysiological techniques such as TMS/tDCS and in psychophysics protocols involving healthy humans and clinical populations. Experience in teaching and supervision of students.

Research interests: Reward system; Addiction disorders; Movement disorders; Social neuroscience; Decisional process; Cognitive and brain mechanisms of magnitude representation; Time processing; Developmental neuroscience; Language and motor system.

Academic Achievements

- **2016 Adjunct Assistant Professorship in Psychology**, University of Maryland University College Europe, Sigonella, Italy.
- **2016 Honorary Lectureship in Psychology**, Bangor University, Wales, Uk.
- **2014 Associate Professor Scientific qualification** in Psychobiology, Psychometrics and General Psychology Ministry of University, Education and Research, Italy.
- **2007-2010 PhD** in "Cognitive Plasticity and Rehabilitation", Department of Psychology, University of Rome, "La Sapienza". Thesis Title: "Cognitive and neuropsychological aspects of human temporal cognition".
- **2007 Certified Psychologist** (National Register of Psychology, Italy).
- **2006 Master** (Vocational course) in Psychological Assessment (Summa cum Laude), University of Palermo, Italy.
- **1999-2004 MSc** (Laurea Magistralis) in Psychology (Summa cum Laude), University of Palermo, Italy.

Summary of publications: since completing my PhD in 2010, I have published 57 refereed journal articles, 1 book chapter, and 1 Book. My work has been presented at 23 conferences. With 871 citations (Google Scholar) and an **Impact Factor** of 253 my journal articles are having a clear impact in the field. In terms of the refereed journal articles, I am first author in 82 % (46/57) and single author in 29 % (16/57) of the papers. My current h-index is 13 (in Scopus).

Peer reviewed articles

Forthcoming articles

1. **Vicario, C.M.**, Rafal R. D., Martino D., Avenanti, A. Core, social and moral disgust are bounded: A review on cognitive and neural bases of repugnance in clinical disorders (Second round revision). *Neuroscience and Biobehavioral Reviews*. **Impact Factor 8.80**
2. **Vicario, C.M.**, Kuran K., Sommer, W., Rafal, R.D. (Second round revision). Self and social perception of disgust reduces saliva secretion in healthy humans. *Acta Psychologica*. **Impact Factor 1.9**
3. **Vicario, C.M.**, Rogers, R., Kuran, K.A., Rafal, R. D. (Under revision). Being hungry: evidence of a linking between appetite and moral judgment. *The Journal of General Psychology*. **Impact Factor 1.1**
4. **Vicario, C.M.**, Kuran, K., Urgesi, C. (Under revision) Does hunger sharpen senses? A psychophysics investigation on the effects of appetite in the timing of reinforcement oriented actions. *Psychological Research*. **Impact Factor 2.68**
5. Cazzato, V., Makris, S., Flavell, J.C., **Vicario, C.M.** (Under revision) Group membership modulates the temporal estimation of in-group/out-group body movements. *Psychological Research*. **Impact Factor 2.68**

2018

1. **Vicario, C.M.**, Nitsche, M.A. (2018). tDCS in Pediatric Neuropsychiatric Disorders. *Neurotechnology and brain stimulation in pediatric psychiatric and neurodevelopmental disorders*. In Peter Enticott & Lindsay M. Oberman Elsevier in.

2017

1. **Vicario, C M.**, Nitsche, M.A., Felmingham, K. (2017). Forgetting frightening experiences through tES: which memory process might be critical? *Translational Psychiatry*. 7(2):e1046. **Impact Factor 5.53**
2. Rivera-Urbina, G.N., Nitsche, M.A., **Vicario, C.M.**, Molero-Chamizo, A. (2017) Applications of transcranial direct current stimulation in children and pediatrics. 28(2):173-184 *Review in Neuroscience*. **Impact Factor 3.2**
3. **Vicario, C.M.** and Rafal, R. D. (2017). Relationship between body mass index and moral disapproval rating for ethical violations. *Personality and Individual differences*. doi:10.1016/j.paid.2016.07.027. **Impact Factor 1.94**.

2016

4. **Vicario, C.M.**, Rafal, D. R., Borgomaneri, S., Paracampo, R., Kritikos, A., Avenanti, A. (2016). Pictures of disgusting foods and disgusted facial expressions suppress the tongue motor cortex. *Social Cognitive Affective Neuroscience*. 2016 Sep 10. pii: nsw129. [Epub ahead of print]. DOI: 10.1093/scan/nsw129 **Impact Factor 5.10**
5. **Vicario, C.M.**, Makris, S., Urgesi, C. (2016) Do experts see it in slow motion? Altered timing of action simulation uncovers domain-specific perceptual processing in expert athletes. *Psychological research*. 2016 Sep 7. [Epub ahead of print]. DOI: 10.1007/s00426-016-0804-z. **Impact Factor 2.86**
6. Avanzino, L. Pelosin, E., **Vicario, C.M.**, Lagravinese, G., Abbruzzese, G., Martino, D. (2016) Time processing and motor control in movement disorders. *Frontiers in Human Neuroscience*. 10:631. doi: 10.3389/fnhum.2016.00631 **Impact Factor 3.62**

7. **Vicario, C. M.**, and Martino, D. (2016). Setting the Scalar Variance Property to Understand the Time Reproduction Deficit In Essential Tremor. *Movement Disorders*. doi: 10.1002/mds.26733 **Impact Factor 6.1**
8. Craparo, G., Gori, A., Dell’Aera, S., Fasciano, S. Tomasello, A. **Vicario, C M.** (2016) Impaired emotion recognition is linked to alexithymia in heroin addicts. *Peer Journal*, 4:e1864. doi: 10.7717/peerj.1864. eCollection 2016. **Impact Factor 2.18**
9. **Vicario, C M.** (2016) Emotional appraisal of moral dilemmas: what neuroimaging can tell about the disgust-morality link. *The Journal of Neuroscience* 36 (2):263-4. **Impact Factor 5.98**
10. Baggio, G., **Vicario, C. M.** (2016). Language processing is not a race against time. *Behavioral and Brain Science*. Vol 39, e64. **Impact Factor 20.44**

2015

11. **Vicario, C.M.** (2015). Altered pain threshold sensitivity and frontoparietal-cingulate network in Anorexia Nervosa: the role of disgust sensitivity. *The Journal of Psychiatry and Neuroscience*. 40(5): E33. **Impact Factor 5.56**
12. Martino, D., Lagravinese, G., Pelosin, E., Chaudhuri, R. K., **Vicario, C.M.**, Abbruzzese G., Avanzino L (2015). Temporal expectation of perceived body movement in cervical dystonia. *Movement Disorders* doi: 10.1002/mds.26225 **Impact Factor 6.1**
13. **Vicario, C.M.**, Rafal, R.D., Avenanti, A. (2015). Counterfactual thinking affects the excitability of the primary motor cortex. *Cortex*. 65C:139-148. **Impact Factor 4.74**
14. **Vicario, C.M.**, Gulisano, M., Rizzo, R., Martino, D. (2015). Timing recalibration in childhood Tourette syndrome associated to persistent pimozide treatment. *Journal of Neuropsychology* doi: 10.1111/jnp.12064. [Epub ahead of print] **Impact Factor 3.84**

2014

15. **Vicario, C.M.** (2014). Speech prosody, reward and cortico-bulbar system: an integrative perspective. *Behavioral and Brain Science*. 37(6):573-4. **Impact Factor 20.44**
16. **Vicario, C.M.**, Gulisano, M. Martino, D., Rizzo, R. (2014). Temporal processing in Childhood Migraine. *Cephalalgia*. 34(7):548-553 **Impact Factor 6.1**
17. **Vicario, C.M.**, Komeilipoor, N., Cesari, P., Rafal, R.D., Nitsche, M.A. (2014). Cortico-bulbar excitability in chronic smokers during visual exposure to cigarette smoking cues. *The Journal of Psychiatry and Neuroscience*. 39(1):130086. **Impact Factor 5.76**
18. **Vicario, C.M.** and Rumiati R.I. (2014). Left-right compatibility mediates the processing of trading verbs. *Frontiers in Behavioural Neuroscience*. 8:16. **Impact Factor 3.27**
19. **Vicario, C.M.** (2014). Aberrant Disgust Response and Immune Reactivity in Cocaine-Dependent Men Might Uncover Deranged Serotonergic Activity. *Frontiers in Molecular Neuroscience*. 7:7 **Impact Factor 5.1**
20. **Vicario, C.M.** (2014). Psychopathic traits in youth psychopathy: the key role of serotonin the key role of serotonin. *Frontiers in Psychiatry*. 5:25. **Impact Factor (forthcoming)**
21. Avenanti, A., **Vicario, C.M.**, Borgomaneri, S. (2014). Social dimensions of pain: Comment on “Facing the experience of pain: A neuropsychological perspective” by Fabbro & Crescentini. *Physics of Life Review*. (3):558-61 **Impact Factor 8.48**
22. **Vicario, C.M.**, Sgubin, G., Newman, A. (2014). Random movements generation in Western and Eastern cultures. *Sage Open*. DOI: 10.1177/2158244014550282 **Impact Factor (forthcoming)**
23. Komeilipoor, N., **Vicario, C.M.**, Daffertshofer, A., Cesari, P. (2014). Talking hands: motor excitability of tongue muscle during observation of bimanual signs. *Frontiers in Human Neuroscience*. 8:767 **Impact Factor 3.6**

2013

24. **Vicario C.M.** (2013). Morality and disgust: insights from Obsessive Compulsive Disorder. *Frontiers in Psychiatry* 3:113. Jan 3; 3:113. doi: 10.3389/fpsy.2012.00113 **Impact Factor (forthcoming)**
25. Avanzino, L., Martino, D., Martino, I., Pelosin, E., **Vicario, C.M.**, Bove, M., Defazio G., Abbruzzese G. (2013). Temporal expectation in focal hand dystonia. *Brain*. 136(Pt 2):444-5. [Epub ahead of print]. **Impact Factor 10.1**
26. **Vicario C.M.** (2013). Landmark test and decision making: a reply to a reply. *Perception*, 42 356 – 357. **Impact Factor 1**
27. **Vicario, C.M.**, Kritikos, A., Avenanti, A., Rafal, B. (2013) Reward and Punishment: investigating cortico-bulbar excitability to disclose the value of goods. *Frontiers in Psychology*, 4:43 **Impact Factor 2.6**
28. **Vicario, C.M.**, Yates, M., Nicholls, M. (2013). Shared deficits in space, time and quantity processing in childhood genetic disorders. *Frontiers in Psychology*, 4:43 **Impact Factor 2.6**
29. **Vicario, C.M.** and Nitsche, M. (2013). Transcranial Direct Current Stimulation: a remediation tool to the treatment of childhood congenital dyslexia? *Frontiers in Human Neuroscience*, 7:139. **Impact Factor 3.6**
30. **Vicario C.M.**, Martino, D., Koch, G. (2013). Temporal accuracy and variability in the left and right posterior parietal cortex. *Neuroscience*. 245:121-8 **Impact Factor 3.35**
31. **Vicario, C.M.** (2013). Time reproduction and numerosity interaction in the parietal cortex: some missing links. *Frontiers in Neurology*. 4:45. **Impact Factor (forthcoming)**
32. **Vicario, C.M.**, Candidi, M., Aglioti, S.M. (2013). Cortico-spinal embodiment of newly acquired action-related semantic associations. *Brain Stimulation*. 6(6):952-8 **Impact Factor 4.7**
33. **Vicario, C.M.** (2013). Inborn mechanisms of food preference and avoidance: the role of polymorphisms in neuromodulatory systems. *Frontiers in Molecular Neuroscience* 6:16. **Impact Factor 5.1**
34. **Vicario, C.M.** (2013). FOXP2 gene and language development: the molecular substrate of the gestural-origin theory of speech? *Frontiers in Behavioral Neuroscience*. 7:99 **Impact Factor 3.3**
35. **Vicario, C.M.** (2013). Altered insula response to sweet taste processing in recovered anorexia and bulimia nervosa: a matter of disgust sensitivity? *The American Journal of Psychiatry*. 170(12):1497 **Impact Factor 13.5**
36. **Vicario, C.M.** (2013). Cognitively controlled timing and executive functions develop in parallel? A glimpse on childhood research. *Frontiers in Behavioral Neuroscience*. 7:146 **Impact Factor 3.3**
37. **Vicario, C.M.** (2013). On a generalized magnitude system in the brain: an integrative perspective. Editorial. *Frontiers in Psychology*. 4:829 **Impact Factor 2.6**
38. **Vicario, C.M.** (2013). Uncovering the neurochemistry of reward and aversiveness. *Frontiers in Molecular Neuroscience*. 6:41 **Impact Factor 5.1**
39. **Vicario, C.M.** and Nitsche, M.A. (2013). Non invasive brain stimulation for enhancing neural functions in childhood: state of art, current limits and future challenges. *Frontiers in System Neuroscience*. 7:94 **Impact Factor (forthcoming)**
40. **Vicario, C.M.** and Newman, A. (2013). Emotions affect the recognition of hand gestures. *Frontiers in Human Neuroscience*. 7:906 **Impact Factor 3.6**

2012

41. **Vicario, C.M.** and Crescentini, C. (2012). Punishing food: what brain activity can tell us about the representation of food in recovered anorexia nervosa. *Biological Psychiatry*. Apr 15;71(8): e31-2. **Impact Factor 10.22**
42. **Vicario, C.M.** (2012) Perceiving numbers affects the internal random movements generator. *The Scientific World Journal*. Volume 2012, Article ID 347068, 6 pages. **Impact Factor 1.22**
43. **Vicario, C.M.**, Rumiati R. I. (2012). tDCS of the primary Motor Cortex improves the detection of semantic dissonance. *Neuroscience Letters*, 518(2):133-7 **Impact Factor 2.1**
44. **Vicario, C.M.**, Rappo, G., Pepi, A., Pavan, A., Martino, D. (2012). Temporal processing in children with developmental dyscalculia. *Developmental Neuropsychology*, 37(7):636-52. **Impact Factor 2.24**
45. **Vicario C.M.** and Ticini L. (2012). Measuring your dependence: deranged corticobulbar excitability may uncover addiction disorders. *Frontiers in Psychiatry*, 3:107 **Impact Factor (forthcoming)**

2011

46. **Vicario, C.M.** (2011). Perceiving numbers affects the subjective temporal midpoint. *Perception*, 40, 23-29. **Impact Factor 1**
47. **Vicario, C.M.** and Candidi, M. (2011). Somatosensory intra-oral activity reveals functional abnormalities in the Insula of Anorexia Nervosa suffers. *Medical Hypothesis*, 77 (4):698-9. **Impact Factor 1.12**
48. **Vicario, C.M.**, Martino, D., Pavone, E. F., Fuggetta, G., (2011). Lateral head turning affects temporal memory. *Perceptual and Motor skills*. 113(1):3-10. **Impact Factor 0.65**
49. **Vicario, C.M.**, Bonni, S., and Koch, G. (2011). Left hand dominance affects supra-second time intervals. *Frontiers in Integrative Neuroscience*, 5:65. **Impact Factor (forthcoming)**

2010

50. **Vicario, C.M.**, Martino D, Spata F, Defazio G, Giacchè R, Martino V, Rappo G, Pepi AM, Silvestri PR, Cardona F. (2010). Time processing in children with Tourette's syndrome. *Brain and Cognition*, 73 (1), 28-34. **Impact Factor 2.44**
51. Candidi, M., **Vicario, C.M.**, Abreu A., Aglioti, S.M. (2010). Competing mechanisms for mapping action-related categorical knowledge and observed actions. *Cerebral Cortex*, 20, (12) 2832-4. **Impact Factor 8.66**
52. **Vicario, C.M.** and Martino, D. (2010). The neurophysiology of magnitude: one example of extraction analogies. *Cognitive Neuroscience*, 1, 144-145. **Impact Factor 2.65**

2009

53. **Vicario, C.M.**, Rappo, G., Pepi, A., Oliveri, M. (2009). Timing flickers across sensory modalities. *Perception*, 38 (8), 1144-51. **Impact Factor 1**
54. Oliveri, M., Bonni, S., Turriziani, P., Koch, G., Lo Gerfo, E., Torriero, S., **Vicario, C.M.**, Petrosini, L., Caltagirone, C., (2009). Motor and Linguistic Linking of Space and Time in the Cerebellum. *Plos One*, (4), 11- e7933. **Impact Factor 3.**

2008

55. **Vicario, C.M.**, Pecoraro, P., Turriziani, P., Koch, G., Caltagirone, C., Oliveri, M. (2008). Relativistic compression and extension of experiential time in the left and right space. *Plos One* 3 (3): e1716. **Impact Factor 3**

56. Oliveri, M, **Vicario, C.M.** Salerno, S, Koch, G, Turriziani, P, Mangano, R, Chillemi, G, and Caltagirone, C. (2008). Perceiving Numbers alters temporal perception. *Neuroscience Letters*, 438(3):308-11. **Impact Factor 2.1**

2007

57. **Vicario, C.M.**, Caltagirone C., Oliveri M (2007). Optokinetic stimulation affects temporal estimation in healthy humans. *Brain and Cognition*, 64(1):68-73. **Impact Factor 2.44**

In preparation

1. **Vicario, C. M.** et al. Somatosensory intraoral activity reveals the oral origin of moral disgust.
2. De Simone, L. and **Vicario, C.M.** Time processing in compulsive gamblers.
3. De Simone, L. and **Vicario, C.M.** Lie in my tongue: cortico-bulbar excitability highlights the somatotopic side of deceptive behaviour.
4. **Vicario, C.M.**, Felmingham, K. Unexpected factors in political decision.
5. **Vicario, C.M.**, Felmingham, K. Time estimation is slowed down in Post-Traumatic Stress Disorder
6. **Vicario et al.** Time flies in Anorexia Nervosa

Books and chapters

- **Vicario, C.M.** and Schimmenti, I. (2011) Cognitive profile of patients with Obsessive Compulsive symptomatology: an overview. *Obsessive Compulsive Disorder: Etiology, Diagnosis and Treatment. Advances in Psychology Research*, 6, vol. 83, 2011, Nova Science publishers, ISBN: 978-1-61324-064-9.
- **Vicario, C.M.** (2008) Tempo, spazio e numeri tra percezione e rappresentazione. *The Boopen Editor*. ISBN 978-88-6223-644-7.

Posters and conference proceedings

- **Vicario C M** and Avenanti A (2017) The experience of disgust suppresses the excitability of the tongue motor cortex. *NYC Neuromodulation*, New York, U.S.A.
- **Vicario C M** (2015). Being Hungry: evidence for a gut origin of morality. *International Convention of Psychological Science*. Amsterdam, The Netherland, 12-14 March.
- **Vicario C.M.**, Rafal, D.R., Avenanti A. (2014). Perceiving disgust affects cortico-bulbar excitability. A TMS study. *Psychoeconomic. Psychonomic Society's 55th Annual Meeting*. November 20th-23th, 2014 Long Beach, California, USA.
- **Vicario C.M.**, Rafal, D.R., Avenanti A. (2014). Perceiving disgust affects cortico-bulbar excitability. A TMS study. *9th FENS forum of neuroscience*. July 05th-09th, 2014 Milan.
- **Vicario C.M.**, Rafa, D.R., Marinovic W., Borgomaneri S., Kritikos, A., Riek S., Avenanti, A. (2013). Perceiving disgust affects cortico-bulbar excitability. A TMS study. *ACNS-2013 Australasian Cognitive Neuroscience Society Conference. FRONTIERS IN HUMAN NEUROSCIENCE*
- **Vicario C.M.**, De Simone L. (2013). Lie in my tongue: cortico-bulbar excitability highlights the somatotopic side of deceptive behaviour. *25th APS Annual Convention*, May 23-26, 2013 at the Washington Marriott Wardman Park in Washington, D.C., USA.
- **Vicario C.M.**, De Simone L. (2013). Lie in my tongue: cortico-bulbar excitability highlights the somatotopic side of deceptive behaviour. *40th Australasian Experimental Psychology Conference* April 3 - 6, 2013, Adelaide, Australia

- **Vicario C.M.**, Rafal, D.R., Marinovic W., Borgomaneri S., Kritikos, A., Riek S., Avenanti, A. (2013). Perceiving disgust affects cortico-bulbar excitability. A TMS study. *ACNS-2013 Australasian Cognitive Neuroscience Society Conference*. 28 November-01 December 2013, Melbourne, Australia
- Mark Yates, **Carmelo M. Vicario**, Tobias Loetscher, Michael Nicholls (2012) Prismatic lenses influence number choices in a random number generation task. *39th Australasian Experimental Psychology Conference*. 12-15 April.
- Yates, M., **Vicario, C.M.**, Loetscher, T., Nicholls, M. (2012). Visuomotor adaptation to prismatic lenses influences numerical cognition. *European Conference on Visual Perception*. 2-6 September 2012, Alghero, Italy
- Yates, M., **Vicario C.M.**, Loetscher, T., Nicholls, M. (2012). Prismatic lenses influence the magnitude of numbers selected in a random number generation task. *5th International Conference on Spatial Cognition*, Rome, September 4-8, 2012.
- M.J. Yates, **C.M. Vicario**, T. Loetscher, M. E. R. Nicholls (2012). Prismatic lenses influence the magnitude of numbers selected in a random number generation task *COGNITIVE PROCESSING*. 13, S73-S73
- **Vicario C.M.**, Candidi, M, Aglioti, S.M. (2010) Temporal dynamics of cortico-spinal embodiment of newly acquired semantic motor associations. *TMS Summer School*, Oxford, 28-29 June.
- D. Martino, **C. M. Vicario**, G. Defazio, F. Spata, R. Giacche, F. Cardona (2009). Time processing in children with Tourette's syndrome. *EUROPEAN JOURNAL OF NEUROLOGY*. 16, 184-184.
- D. Martino, **C.M. Vicario**, G. Defazio, F. Spata, R. Giacche, G. Rappo, L. Catalano, F. Cardona. (2009). Time processing in children with Tourette syndrome. *MOVEMENT DISORDERS*. 24, S499-S499, WILEY-LISS
- **Vicario, C.M.**, Sciangula A., Pazzaglia, M. Oliveri, M. (2008) Ruolo della rappresentazione spaziale nella percezione temporale implicita ed esplicita. *Congresso Nazionale della Sezione di Psicologia Sperimentale*. Padova, Settembre.
- Candidi M., **Vicario C.M.**, Abreu A.M., Aglioti S.M., (2008) "Grounding sports in the motor cortex", summer school *Sense of body*, Bologna 16-21 Giugno.
- Vicario, C.M.**, Sciangula, A., Turriziani, P., Oliveri M. (2007) Number perception affects time judgement task. *International Workshop on Concepts, Action and Object*. Rovereto, 18-22, Aprile.
- Rappo, G., **Vicario, C.M.**, Pepi, A Oliveri, M (2007) The relativity of Space time relations in sensorial cross-modality: one study on visual auditory interaction. *International Workshop on Concepts action and Object*, Rovereto, 18-22 Aprile
- Sciangula, A., Bonni, S., Turriziani, P., **Vicario, C.M.**, Pecoraro, P., Oliveri, M. (2007). Interazione tra spazio e tempo in compiti linguistici: implicazioni per una rappresentazione lineare del tempo *Congresso Nazionale della Sezione di Psicologia Sperimentale*. Como, 15-18 Settembre
- Muscarella, L., **Vicario, C.M.**, Oliveri, M. (2006). Effetti della soppressione articolatoria in un compito di stima temporale. *Congresso Nazionale della Sezione di Psicologia Sperimentale*, Rovereto, 18-20, Settembre.
- Sciangula A. **Vicario, C.M.**, Oliveri, M. (2006). La stimolazione optokinetica influenza la percezione del tempo. *Congresso Nazionale della Sezione di Psicologia Sperimentale*, Rovereto 18-20, Settembre.
- Pecoraro, P., Cilluffo, E., Ciuni, S., **Vicario, C.M.**, Oliveri, M. (2006) Spazio e Numero: effetti priming sulla prestazione in un compito di stima temporale. *Congresso Nazionale della Sezione di Psicologia Sperimentale*, Rovereto, 18-20, Settembre.
- Ciuni, S., Cilluffo, E., **Vicario, C.M.**, Oliveri, M. (2006) Interazione lettere numeri: evidenze per una "Mental alphabetical line"? *Congresso Nazionale della Sezione di Psicologia Sperimentale*, Rovereto 18-20 Settembre.

- **Vicario C.M.** and Oliveri M. (2004). Relazione tra rappresentazione della quantità e stima temporale, *Congresso Nazionale della Sezione di Psicologia Sperimentale*, Sciacca (AG) 18-20, Settembre.

Fellowships, Grants and Paid Work Experience

- **2017-2019** *Alexander von Humboldt Research Fellowship for Experienced Researchers*. **Role:** Experienced Researcher. **Amount:** 73.850 EU. **Title of the project/subject:** Investigating the effects of non-invasive brain stimulation of the motor tongue area in reward-related behaviours.
- **2016-2019** The University of Tasmania, *Intensive Research Fellowship* **Role:** Principal investigator. **Amount:** \$ 367,807.46. **Title of the project/subject:** From tongue to reward.
- **2015** Bangor University, *The Undergraduate Summer Research Internship Program*. **Role:** Supervisor/project coordinator. **Amount:** £500. **Title of the project/subject:** The effect of disgusting stimuli on salivation response in healthy humans.
- **2015-2016** *2014 NARSAD Young Investigator Award* from Brain & Behavior Research Foundation. **Role:** Principal investigator. **Amount:** \$29,983. **Subject:** Brain stimulation protocols for the treatment of nicotine craving.
- **2014** Bangor University, *The Undergraduate Summer Research Internship Program* – **Role:** Supervisor/project coordinator. **Amount:** £ 500. **Subject:** The influence of visuo-sensory and interoceptive experience on moral judgment.
- **2013-2016** *The University of Queensland Research Fellowship*. **Role:** Principal investigator. **Amount:** \$311,1103.56. **Subject:** The role of corticobulbar system in the processing of reward and aversion.
- **2012-2014** *Marie Curie Intra-European Fellowships for Career Development* – Bangor University, Uk. **Role:** Principal investigator. **Amount:** € 221,606.40. **Subject:** The role of corticobulbar system in the processing of reward and aversion.
- **2010-2012** Post-doctoral Fellowship - the International School for Advanced Studies (ISAS)/SISSA, Italy. **Role:** Principal investigator. **Amount:** € 44,000.
- **2009-2010:** Fellowship (€ 8,000) at the Social and Cognitive Neuroscience lab, University of Roma, “La Sapienza” (supervisor: prof. Salvatore Maria Aglioti). **Subject:** “research program on attention and social modulation”.
- **2008** Scholarship (€ 6,000 of six months at the “School of Psychology, Faculty of Medicine and Biological Sciences” University of Leicester (UK) (Supervisor Dr. Giorgio Fuggetta, PhD). **Subject:** “research program on spatio-temporal cognition in healthy humans”.
- **2007:** Fellowship (€ 6,600), Physiology of Exercise laboratory, University of Verona (Supervisor: Prof. P. Cesari). **Subject:** The perception of time in elite athletes.
- **2004** Scholarship (€ 2,800), Institute of Cognitive Neuroscience, University College of London. Prof. Vincent Walsh. **Subject:** Introductory training for the employment of transcranial magnetic stimulation (TMS) in cognitive fields.

Visiting Researcher Experience

- **2012** Visiting researcher, Faculty of Motor Science, University of Verona, Italy (Prof. Paola Cesari). **Subject:** Research protocols investigating the representation of reward in clinical populations.
- **2012** Visiting researcher, Max Plank Institute, Germany, (Prof. Arno Villringer). **Subject:** The role of Corticobulbar tract in the representation of reward and aversion.
- **2011** Visiting researcher, Social Neuroscience Laboratory, University of Bologna (Prof. Alessio Avenanti). **Subject:** Research protocols investigating the representation of reward and aversion in healthy humans.

- **2008** Visiting researcher, School of Psychology, University of Leicester (UK) (Supervisor Dr. Giorgio Fuggetta). *Subject*: Research program in spatio-temporal cognition in healthy humans.
- **2007-2010**: Research training, Rehabilitation Hospital and Research Institute, IRCCS, Santa Lucia Foundation, Rome (Italy). *Subject*: Research protocols in neural plasticity investigations in healthy humans (Supervisor Prof. Salvatore Maria Aglioti).
- **2006** Clinical training (6 weeks) in clinical neuropsychology, Rehabilitation Hospital and Research Institute, IRCCS “Oasi”, Troina (Italy), Brain Degeneration Division.
- **2004-2007** Internship and work experience, Neuropsychology Laboratory, University of Palermo, Italy (Director Prof. Massimiliano Oliveri). *Subject*: The representation of space, time and numbers in healthy humans

Successful Training Courses

- **2016** Good Clinical Practice Training, ARCS trainings, University of Tasmania.
- **2016** Combating Trafficking in Person (Aka Human Trafficking), UMUC Europe.
- **2016** Level I Antiterrorism Awareness Training course (JS-US007-14), UMUC Europe.
- **2016** Operations Security (OPSEC) Awareness, UMUC Europe.
- **2016** Preventing Discrimination and Sexual Violence, UMUC Europe
- **2016** The Clery Act and Campus Security Authorities, UMUC Europe
- **2016** Unlawful Harassment Prevention for Higher Education Staff, UMUC Europe
- **2016** UMUC’s Contractor Code of Ethics, UMUC Europe
- **2016** UMUC’s Overseas Employee Code of Conduct, UMUC Europe
- **2016** iWatch (Military Security), UMUC Europe.
- **2016** Family Educational Rights and Privacy Act (FERPA), UMUC Europe.
- **2016** Personal Identifiable Information Awareness Training, UMUC Europe.
- **2016** New faculty academic Orientation, UMUC Europe, Europe.
- **2016** TMS Foundation Workshop, Institute of Neurology, UCL, Queen Square, London.
- **2014** Marie Curie Annual Conference, University of Copenhagen, Denmark. *Workshop subject*: Working within a team: Giving and receiving feedback.
- **2010** Summer school: Attention, perception and motor cognition. University of Oxford, Oxford, UK
- **2010** Transcranial Direct Current Stimulation (tDCS) Workshop: New perspectives of tDCS between experimentation and clinic, IRCCS, San Giovanni di Dio – FBF Brescia, Italy.
- **2009** Summer school: Attention, perception and motor cognition. Institute of Cognitive Neuroscience, University College of London, UK.

Teaching assignment

- **2016-current** Adjunct Assistant professor at the University of Maryland University College, Europe.
- **2016-current** Honorary Lectures in Psychology. School of Psychology, Bangor University, Bangor, Wales (Uk).
- **2010-2011** Visiting Professor of Psychophysiology and Psychobiology at the University of Palermo, Faculty of Motor Science (Italy).
- **2009-2010** Teaching Tutor at the University of Rome, La Sapienza, Faculty of Psychology 1 and 2, (Italy).
- **2008-2009** Visiting Professor of Psychophysiology and Psychobiology at the University of Palermo, Faculty of Motor Science (Italy).
- **2008-2009** Assistant professor “Methods of interview and questionnaire” International Telematic University Uninettuno of Rome (Italy).

- **2008-2009** Assistant professor “Anatomy and physiology of psychological activity” International Telematic University Uninettuno of Rome (Italy).
- **2007-2009** Assistant professor “Biological basis of behavior” International Telematic University Uninettuno of Rome (Italy).
- **2006-2008** Assistant professor “Neuropsychology of Language and Research Methods”, University of Rome, La Sapienza, Faculty of Psychology 1 and 2, (Italy).

Students’ supervision and co-supervision

Research activity

- **2015** graduate student research project supervision (Miss **Karolina Agata Kuran**, Bangor University, Uk). Title of the research project: “*The effect of disgusting stimuli on salivation response in healthy humans*”.
- **2014** PhD student lab activity supervision (Mr. **Joshua Sam Payne**, Bangor University, Uk): training in Transcranial Direct Current stimulation.
- **2014** undergraduate student supervision (Mr. **Kennedy Lyndan Bowers**, Bangor University, Uk). Title of the research project: “*The influence of visuo-sensory and interoceptive experiences on moral judgment*”.
- **2014** Master student supervision (Mr. **Michael John Perrins**, Bangor University, Uk). Title of the research project: “*The influence of visuo-sensory and interoceptive experiences on moral judgment*”.
- **2013** Under-graduated student supervision (Miss. **Anica Newman**, University of Queensland, Uk) (Australia) Title of the research project: “*Emotion processing and social attitude*”.
- **2012** PhD student lab activity supervision (Dr. **Luca Desimone**, the International School for Advanced Studies, Italy): in single-pulse Transcranial Magnetic stimulation (i.e., cortico-spinal and corticobulbar stimulations).
- **2012** PhD student lab supervision (Dr. **Naeem Komeilipoor**, University of Verona, Italy): training in Transcranial Magnetic stimulation (i.e, corticobulbar stimulation).
- **2008** co-supervision of **4 graduate students**, School of Psychology, University of Leicester (UK). Title of the research program: “*time and space in human cognition*”.

Thesis

- **2017** Master student co-supervision (Miss **Isobel Hoysted**, University of Tasmania, Australia). Title of the Thesis: “The Effect of tDCS on Fear Extinction”.
- **2015** Master student co-supervision (Mr **Sebastiano Patanè**, University of Palermo, Italy). Title of the Thesis: “*Le abilità di timing nel Karate*” (Timing skills in Karate experts).
- **2015** Master student research project co-supervision (Miss **Natalia Salazar Whitman**, Bangor University, Uk), Title of the research project: “*The influence of monetary reward on moral judgment*”.
- **2011** Honours student supervision (Miss. **Giulia Sgubin**, The University of Trieste, Italy). Title of the thesis: “*The role of the primary motor cortex in language processing: a tDCS study*”.
- **2010** Honours student co-supervision, (Miss. **Adriana Collura**, University of Verona, Italy). Title of thesis: “*Time processing in developmental dyscalculia*”.

Viva examinations

- **2015** (03 September) External examiner D.Phil. thesis (Miss. **Beatrix Krause**, Lincoln College, University of Oxford). Subject of the thesis: “**From Cortical Excitation to Cognition: The Case of Mathematics**”.

Membership and Activities

- **2014-2015:** Ordinary member, Psychonomic Society.
- **2013-2014:** Ordinary member, Association for Psychological Science.
- **2012-2014:** Associated Editor, Frontiers, Research Topic in Psychology: “*On a generalized magnitude system in the brain: insights from experimental evidence*”.
- **2013-2014:** Ordinary member, Australasian Cognitive Neuroscience Society.
- **2013-2014:** Expert, University of Queensland (www.uq.edu.au/uqexperts/browse.php?alpha=v)
- **2013-present:** Editorial board, Frontiers in Developmental Psychology.
- **2012-present:** Editorial board, Frontiers in Addictive Disorders and Behavioural Dyscontrol.
- **2010-2011:** Ordinary member, Association for Psychological Science.

Ad-hoc reviewer

Cognition; Cognitive Sciences; PlosOne; Journal of the International Neuropsychological Society; Cortex, Neuropsychology; Frontiers in Psychology, Brain and Cognition, Frontiers in Psychiatry, Frontiers in Human Neuroscience; Motor Control; Frontiers in Developmental Psychology, Experimental Psychology; American Journal of Biochemistry and Biotechnology; Frontiers in Aging Neuroscience; Cerebral Cortex; Open Sage; Human Movement Science; Experimental Brain Research; Neuropsychologia; Psychological Medicine; Psychophysiology; Cognitive Processing; Cognitive, Affective and Behavioral Neuroscience; Frontiers in Neuroscience; The International Journal of Eating Disorders, Neuroplasticity, Neuroscience Letters; Journal of the International Neuropsychological Society; Learning and Individual Differences; Journal of Experimental Psychology: Human Perception and Performance; Journal of Psychiatric Research; Scientific Reports.

Research grants review

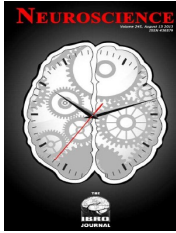
- **2014** The Israel Science Foundation.
- **2016** The European Commission, Expert of the Research Executive Agency.

Organization of scientific events

- **2008:** Co-Organizer, “*Neuropolitics*”, Università di Roma, La Sapienza. (Coordinator S.M. Aglioti). Brain awareness week, <http://www.baw2008rome.altervista.org>.
- **2007:** Co-Organizer, “*The Mystic Brain*”, Università di Roma, La Sapienza. (Coordinator S.M. Aglioti). Brain awareness week, <http://www.baw2007rome.altervista.org>.

Media

- <http://bps-research-digest.blogspot.com.au/2010/06/tourettes-syndrome-associated-with.html>
- http://www.therapytools.com.au/current_research/research-0006
- <http://www.tsplusblog.com/2010/06/another-benefit-of-tourettes-syndrome/>
- <http://www.wired.com/wiredscience/2010/06/tourettes-goal-timing-and-downside-upside/>
- <http://scienceblogs.com/cortex/2010/06/24/tourettes/>
- <http://blogs.nature.com/stories/2845>
- Cover art, Neuroscience, 254 issue, August 2013
- <http://www.journals.elsevier.com/cortex/featured-articles/it-is-my-fault-how-the-brain-reacts-to-a-wrong-choice/?sf7919447=1>
- http://horizon-magazine.eu/article/free-will-decoded_en.html



Prestigious appointments and awards

- **2016 Winner of the Cultural Prize "Carmelino Sutera"** for Academic and Research merits, awarded by the Association of Music Giuseppe Verdi under the auspices of the Municipality of Galati Mamertino, Messina, Italy.
- **2016 Appointed Expert Reviewer** by the European Research Council, for the evaluation of Scientific Research proposals (i.e. n=11 research proposals). Name of the scientific call: "2016 Marie Skłodowska-Curie call", European Commission, EU.
- **2015 External examiner** of the D.Phil. thesis (Miss. **Beatrix Krause**) at the Lincoln College, University of Oxford, UK.
- **2014 Winner of the NARSAD Young Investigator Award** funded by the Brain & Behavior Research Foundation, USA.

Invited lectures and public talks

- Vicario C M (2017)** The influence of reward and disgust on the neural excitability of tongue motor neurons. School of Pharmacology, **University of Tasmania** (AU), March 21 2017.
- Vicario C M (2016)** The contribution of the tongue motor cortex in processing reward and aversive outcomes. ANS Sensorimotor Control Meeting, **University of Tasmania** (AU), December 02 2016
- Vicario C M (2015)**. *Reward and aversion processing in humans: the contribution of the primary motor tongue area and salivary secretion*. **Edge Hill University** (Uk), November 17, 2015
- Vicario C M (2015)**. *Reward and aversion processing in humans: the contribution of the primary motor tongue area*. **Kings 'College Hospital, NHS Foundation Trust** (Uk) July 8, 2015
- **Vicario C M (2015)**. *Reward and aversion processing in humans: the contribution of the primary motor tongue area*. **Lincoln University**, School of Psychology, March 25, 2015.
- **Vicario C. M. (2014)**. *Reward and aversion processing in humans: the contribution of the corticobulbar system*. Cognitive Colloquium Event, **Bangor University**, School of psychology, April 4, 2014, Bangor, Uk.
- **Vicario C.M. (2013)** *Uncovering neural mechanisms of reward and aversiveness*. **University of Queensland**, Centre for Perception and Cognitive Neuroscience (CPCN). December 13 Brisbane, Australia.
- **Vicario C.M. (2011)** *To be and to do in the primary motor cortex*. Brescia, 14 November, **National Congress of Psychophysiology**, Italy.
- **Vicario C.M. (2010)** *Neuroscience and Education: from research to practice*. Enna, 15 Gennaio, **Kore, Università degli studi di Enna**, Italy
- **Vicario C.M. (2010)** *Time processing in developmental dyscalculia*. Psicologia e scuola. Giornata di studio sulle difficoltà di apprendimento, **University of Palermo**, Italy, October 2, 2010
- **Vicario C.M. (2009)** *Time processing in children with Tourette's syndrome*. XXVI International Congress CNIS, A. I. R. I. P. A. Associazione Italiana per la Ricerca e per l'Intervento nella Psicopatologia dell'Apprendimento. **University of Palermo**, Italy, April 2, 2009.

- **Vicario C.M.** (2009) *Time processing in children with Tourette syndrome*. Evento ECM. Disturbi del movimento in età evolutiva, Rome, Faculty of Medicine, **La Sapienza, University of Rome**, Italy, January 24, 2009.

Other skills

Languages: Italian, English (B2 level, IELTS certification), French

Computer Operative systems: OS Mac, Windows;

Statistics programs: SPSS, Statistica;

Experiment program software: E-prime, Matlab (basic course).

Lab Instruments and research methods: TMS, tDCS, EMG, Salivary Sampling, Skin conductance.

Main current scientific collaborators

Prof. Alessio Avenanti, University of Bologna (Italy).

Prof. Robert D. Rafal, University of Bangor (UK).

Prof. Micheal A. Nitsche, University of Göttingen, Göttingen (Germany).

Prof. Somer Werner, Humboldt-Universität zu Berlin (Germany).

Prof. Kim Felmingham, University of Melbourne (AU).

Prof. Giacomo Koch, University of Torvergada (ITA).

Prof. Davide Martino, UK Queen Elizabeth Hospital (UK).

Prof Stuart Ferguson, University of Tasmania (UK).

Dr. Tobias Loetscher, University of Flinders (AU).

Dr. Gaetano Rappo, University of Palermo (ITA).

Dr. Stergios Makris, Edge Hill University (UK).

Dr. Laura Avanzino, University of Genoa (ITA).

Dr. Cosimo Urgesi, University of Udine (ITA).

Dr. Valentina Cazzato, Liverpool John Moore University (Uk).

Dr. Andrea Pavan, University of Lincoln (UK).

Data e Luogo

19/04/2017, Hobart, Australia.

Firma

