

CURRICULUMVITAE ET STUDIORUM

GAETANO TIERI

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Gaetano Tieri, Phd in Cognitive Social and Affective Neuroscience; Department of Psychology, University of Rome La Sapienza, Italy. He is an expert in exploring behavioral, physiological and neurophysiological activities by means of Immersive Virtual Reality and conducts research at 1) Virtual reality Lab at Unitelma Sapienza of Rome; 2) at the IRCCS Santa Lucia Foundation, Rome and 3) Social Cognitive and Affective Neuroscience Laboratory at the Department of Psychology, Sapienza University of Rome, head Prof. S.M. Aglioti. He is also expert in developing virtual environments for educational proposal in the fields of Psychology and Neuroscience.

Bibliometric Indexes

Number of Publication: 15

H-Index: 8 (Scholar Google), 7 (Scopus)

Citations: 333 (Scholar Google), 239 (Scopus)

ORCID: <https://orcid.org/0000-0002-3037-0526>

Scholar Google: <https://scholar.google.com/citations?user=Kid3Z08AAAAJ&hl=it>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=37035246500>

EDUCATION

2011 – 2014	PhD in Cognitive Social and Affective Neuroscience, SCN; Department of Psychology, University of Rome La Sapienza, Italy.
2010	Master Degree in “Cognitive Psychology”. Faculty of Psychology, University “G. d’Annunzio”, Chieti.
2008	Bachelor Degree in “Science and Psychological techniques”. Faculty of Psychology, University “G. d’Annunzio”, Chieti.
2003	High school specializing in a technical education: Electronics and automatic systems. Istituto tecnico industriale statale ITIS “Leonardo Da Vinci”, Lanciano (CH)

PROFESSIONAL EXPERIENCE

From 2018	Assistant Professor (SDD M-PSI/01) at Unitelma Sapienza of Rome.
2016 – 2018	Senior Postdoc Fellow at Unitelma Sapienza of Rome.
2014 – 2016	Senior Postdoc Fellow at Santa Lucia Foundation, IRCCS, Rome.
Sept 2017 from April 2010	Research Activity with immersive virtual reality in applied neuroscience at Braintrends I.t.d. Rome, Italy.
Oct 2011	Brain Computer Interface Training in g.Tec laboratory, Sierningstrass, Austria.

Aprile 2011 from Dic 2010	Training in Immersive Virtual Reality and devices. PERCRO laboratory, Scuola Superiore Sant'Anna, Pisa, Italy.
Dic 2010 from Sept 2008	Research Activity on Space and Action in Virtual Reality, Neuropsychology laboratory ITAB, Chieti, Italy
Jun 2007 from Jan 2007	Research internship on Effect of senuclein in Parkinson. Consortium Mario Negri Sud, Lanciano, Italy.

NATIONAL QUALIFICATION (“abilitazione scientifica nazionale”)

- Associate Professor – SC: 11/E1 – Bando D.D. 153/2016 – from Nov. 2018 to Nov. 2024

PUBLICATIONS

- 2018** Tieri, G., Morone, G., Paolucci, S., & Iosa, M. (2018). Virtual reality in cognitive and motor rehabilitation: facts, fiction and fallacies. *Expert Review of Medical Devices*, 15(2), 107–117. <https://doi.org/10.1080/17434440.2018.1425613>
- 2018** Sacheli, L. M., Tieri, G., Aglioti, S. M., & Candidi, M. (2018). Transitory Inhibition of the Left Anterior Intraparietal Sulcus Impairs Joint Actions: A Continuous Theta-Burst Stimulation Study. *Journal of Cognitive Neuroscience*, 26(3), 1–16. https://doi.org/10.1162/jocn_a_01227
- 2018** D’Antonio E., Tieri G., Paolucci S., Patanè F., Iosa M. (2019) Postural Sway Responses to 3D Virtual Dynamic Visual Stimulation in Post-stroke patients. In: Masia L., Micera S., Akay M., Pons J. (eds) *Converging Clinical and Engineering Research on Neurorehabilitation III. ICNR 2018. Biosystems & Biorobotics*, vol 21. Springer, Cham
- 2017** Spinelli, G., Tieri, G., Pavone, E. F., & Aglioti, S. M. (2017). Wronger than wrong: Graded mapping of the errors of an avatar in the performance monitoring system of the onlooker. *NeuroImage*, 167(August 2017), 1–10. <https://doi.org/10.1016/j.neuroimage.2017.11.019>
- 2017** Candidi, M., Sacheli, L., Era, V., Canzano, L., Tieri, G., Aglioti, S.M. (2017) Come together: human-avatar on-line interactions boost joint-action performance in apraxic patients. *Social Cognitive and Affective Neuroscience*, nsx114, <https://doi.org/10.1093/scan/nsx114>
- 2017** Tieri, G., Gioia, A., Scandola, M., Pavone, E. F., & Aglioti, S. M. (2017). Visual appearance of a virtual upper limb modulates the temperature of the real hand: a thermal imaging study in Immersive Virtual Reality. *European Journal of Neuroscience*, 1–11. <https://doi.org/10.1111/ejn.13545>
- 2016** Fusaro, M., Tieri, G., & Aglioti, S. M. (2016). Seeing pain and pleasure on self and others: behavioral and psychophysiological reactivity in immersive virtual reality. *Journal of Neurophysiology*, 116(6), 2656–2662. <https://doi.org/10.1152/jn.00489.2016>
- 2016** Pavone, E. F., Tieri, G., Rizza, G., Tidoni, E., Grisoni, L., & Aglioti, S. M. (2016). Embodying Others in Immersive Virtual Reality: Electro-Cortical Signatures of Monitoring the Errors in the Actions of an Avatar Seen from a First-Person Perspective. *Journal of Neuroscience*, 36(2), 268–279. <http://doi.org/10.1523/JNEUROSCI.0494-15.2016>
- 2016** Jelić, A., Tieri, G., De Matteis, F., Babiloni, F., & Vecchiato, G. (2016). The Enactive Approach to Architectural Experience: A Neurophysiological Perspective on Embodiment, Motivation, and Affordances. *Frontiers in Psychology*, 7(March), 1–20. <http://doi.org/10.3389/fpsyg.2016.00481>

- 2015** **Tieri, G.**, Tidoni, E., Pavone, E. F., & Aglioti, S. M. (2015). Body visual discontinuity affects feeling of ownership and skin conductance responses. *Scientific Reports*, 5, 17139. <http://doi.org/10.1038/srep17139>
- 2015** Vecchiato, G., Jelic, A., **Tieri, G.**, Maglione, A. G., De Matteis, F., & Babiloni, F. (2015). Neurophysiological correlates of embodiment and motivational factors during the perception of virtual architectural environments. *Cognitive Processing*, 3–7. <http://doi.org/10.1007/s10339-015-0725-6>
- 2015** Tidoni, E., **Tieri, G.**, & Aglioti, S. M. (2015). Re-establishing the disrupted sensorimotor loop in deafferented and deafferented people. The case of spinal cord injuries. *Neuropsychologia*, 1–9. <http://doi.org/10.1016/j.neuropsychologia.2015.06.029>
- 2015** **Tieri, G.**, Tidoni, E., Pavone, E. F., & Aglioti, S. M. (2015). Mere observation of body discontinuity affects perceived ownership and vicarious agency over a virtual hand. *Experimental Brain Research*. <http://doi.org/10.1007/s00221-015-4202-3>
- 2015** Vecchiato, G., **Tieri, G.**, Jelic, A., Maglione, A. G., De Matteis, F., & Babiloni, F. (2015). Electroencephalographic Correlates of Sensorimotor Integration and Embodiment during the Appreciation of Virtual Architectural Environments. *Frontiers in Neuroscience*, 16(S1), 425–429. <http://doi.org/10.3389/fpsyg.2015.01944>
- 2010** Costantini, M., Ambrosini, E., **Tieri, G.**, Sinigaglia C., Committeri, G. (2010). Where does an object trigger an action ? An investigation about affordances in space. *Experimental Brain Research*, 95–103. <http://doi.org/10.1007/s00221-010-2435-8>

MANUSCRITP UNDER REVIEW/IN PRESS

- 2018** Monti A, Porciello G , **Tieri G**, Aglioti SM, ‘Embreatment’ illusion reveals hierarchical influence of respiratory, visual and spatial signals on corporeal awareness
- 2018** Fusaro M, **Tieri G**, & Aglioti SM, Influence of Cognitive stance and Physical perspective on subjective and autonomic reactivity to observed pain and pleasure: an immersive virtual reality study
- 2018** Moreau Q, Candidi M, Era V, **Tieri G**, Aglioti SM, The rhythm of interactions: frontal and occipito-temporal Theta activity as marker of error monitoring in Human-Avatar joint performance.
- 2018** Gandolfo M, Era V, **Tieri G**, Sacheli LM, Candidi M, Interactor’s body shape does not affect visuo-motor interference effects during motor coordination.

INVITED TALKS

- 2018** Wearing my virtual body: Immersive virtual reality studies of embodiment and their implications for rehabilitation. *XXVI Congresso Nazionale della Società Italiana di Psicofisiologia*, Turin, Italy.
- 2018** Investigating Social Motor behaviours through Virtual Reality: from human’s to avatar’s kinematics. *International Conference of Spatial Cognition 2018*, Sapienza University, Rome.
- 2018** Wearing my virtual body: behavioural, physiological and neural reactivities elicited by an embodied virtual avatar, *First Joint Congress of the SEPEX, SEPNECA and AIP experimental*, Madrid, Spain.
- 2018** Risposte reali a carezze virtuali: Indagine neuroscientifica attraverso la realtà virtuale immersiva, *1th edition of "NeuroSpritz"*, Roma, Italy.

- 2017** Behavioural and physiological reactivity to the observation of Pain and Pleasure in virtual reality, *6TH Scientific Meeting of the Federation of the European Societies of Neuropsychology (FESN)*, Maastricht, The Netherlands.
- 2016** Cervello reale e corpo virtuale: la realtà virtuale come strumento per le neuroscienze, *Conference "Quale tecnologia per quale riabilitazione"*. Ospedale Pediatrico Bambino Gesù, Rome, Italy.
- 2016** Controllo corporeo e cerebrale delle azioni di un avatar: studi di EEG e realtà virtuale immersiva. *2th Conference of SCI-Research Group*. IRCCS Fondazione Santa Lucia, Rome, Italy.
- 2015** Wearing my virtual body: behavioral, physiological and neural reactivity to the physical appearance and to the actions of an embodied avatar. *7th Conference of Lithuanian Neuroscience Association*. Vilnius University, Vilnius, Lituania.
- 2015** Skin temperature modulations underlying the feeling of ownership over a virtual hand, *XXIII Congresso Nazionale della Società Italiana di Psicofisiologia*, Lucca, Italy.
- 2015** Il cervello reale e il suo corpo virtuale, *1th edition of Pint of Science Italy*, Rome, Italy.
- 2014** Neuroscienze e Realtà Virtuale, *Conference*, La Sapienza University, Roma, Italy.
- 2014** Realtà Virtuale Immersiva: un nuovo strumento di indagine per le Neuroscienze, *Conference*, La Sapienza University, Roma, Italy.
- 2014** Body visual discontinuity affects feeling of ownership and skin conductance responses. *International VERE Phd symposium*, Barcelona University, Spain.
- 2012** Off-line EEG and BCI studies of motor imagery and real grasps in a tetraplegic patient and healthy controls, *International VERE meeting*, IDC institute Herzliya, Israel.

POSTER PRESENTATION

- 2016** Active control of a virtual arm as a proxy to embodiment and action monitoring in people with spinal cord injury: An EEG study in immersive virtual reality. *XXIV Congresso Nazionale della Società Italiana di Psicofisiologia*, Milano, Italy.
- 2016** Visual perspective changes subjective and psychophysiological reactivity to the virtual pain and pleasure on self and others. *XXIV Congresso Nazionale della Società Italiana di Psicofisiologia*, Milano, Italy.
- 2014** Body visual discontinuity affects feeling of ownership and skin conductance responses. *VERE Phd symposium*, Barcelona University, Spain.
- 2014** Combination of EEG and immersive virtual reality to explore the embodiment of avatars and of their errors". *London Virtual Social Interaction Workshop*, institute of Cognitive Neuroscience, UCL, London, UK.
- 2013** Fast-Muscle contraction as a proxy to embodiment and BCI-control in Tetraplegia: An EEG study in Immersive Virtual Reality. *International VERE Meeting 2013*, Scuola Superiore Sant'Anna, Pisa, Italy.
- 2012** Brain Monitoring of erroneous actions performed by an avatar: EEG study in Immersive Virtual Reality" *International Conference of Spatial Cognition 2012*, Sapienza University, Rome.

2012 Brain Monitoring of erroneous actions performed by an avatar: EEG study in Immersive Virtual Reality. *International VERE Meeting 2012*, Barcelona University, Spain.

TEACHING

2018 Course: "Realtà Virtuale Immersiva: uno strumento innovativo per la ricerca psicologica, economica, sociale, educativa e neuroscientifica" (40 hours), Unitelma Sapienza di Roma, Rome, Italy.

2018 Virtual Reality as a new tool for Neuroscientists, *Lecture*, La Sapienza University, Rome, Italy.

2017 Alternanza-Scuola Lavoro: Virtual Reality for Psychology and Neuroscience. La Sapienza University, Rome, Italy.

2017 Virtual Reality, bodily control and brain computer interface, *Lecture*, La Sapienza University, Rome, Italy.

2016 Virtual Reality and Body Awareness, *Lecture*, La Sapienza University, Rome, Italy.

2015 Virtual Reality as a new tool for Neuroscientists, *Lecture*, La Sapienza University, Rome, Italy.

2015 Realtà Virtuale Immersiva: nuove frontiere della Neuroscienza, *Lecture*, G. d'Annunzio University, Chieti, Italy.

2013 Neuroscienze e Realtà Virtuale, *Lecture*, G. d'Annunzio University, Chieti, Italy.

AWARDS

2018 **Bando di Ricerca di Ateneo 2018 Unitelma Sapienza**– “Scavo archeologico a Gortina (Creta, Grecia), area a nord del Pretorio. Studio per l’elaborazione di un nuovo modello di didattica interattiva” Member of the Reserch Unit (PI: Rita Sassu).

2018 **Bando di Ricerca di Ateneo 2018 Unitelma Sapienza**– “Financial Literacy and Neuroscientific Investigation.” Member of the Reserch Unit (PI: Rosella Castellano).

2017 **Young Researcher** – “Promoting the recovery of higher-order motor functions in brain damaged patients. A novel approach based on the combination of virtual reality and non-invasive brain stimulation.” Role Co-PI (GR-2016-02361008; PI: CANDIDI Matteo).

2016 **BIAL Foundation Research Grant** (2016-2017) - "Virtual bodies, real empathy: behavioural, bodily, and neural reactivity to the observation of Pain and Pleasure on self and others in immersive virtual reality", Role PI (Num. 218/16)

2015 **MOTO, the embodied reMOte Tower** (2016-2018) - "High Performing Airport Operations - Improved Visualisation and Awareness". Member of the Reserch Unit (ER-06-2015; PI: POZZI Simone).

2014 **Best Abstract Award** - Body visual discontinuity affects feeling of ownership and skin conductance responses. *International VERE Phd symposium*, Barcelona University, Spain.

2014 **BIAL Foundation Research Grant** (2015-2016) - "Measuring the Self: behavioural and neural correlates of bodily awareness" Member of the Reserch Unit (Num. 2014/150; PI: TIDONI Emmanuele).

PEER-REVIEW ACTIVITY

Cortex; Experimental Brain Research; International Journal of Visualized Experiment; Journal of Neuroengineering; Neuropsychologia; Scientific Reports; Symmetry; Royal Society Open Science; Conscious & Cognition.

EDITORIAL ACTIVITY

Editorial Board, Scientific Reports.

AUTORIZZO IL TRATTAMENTO DEI MIEI DATI PERSONALI AI SENSI DELLA LEGGE 196/03
AI SENSI DELL'ART. 46 DEL DPR 445/2000 DICHIARO CHE TUTTE LE INFORMAZIONI CONTENUTE NEL PRESENTE CURRICULUM VITAE
CORRISPONDONO A VERITÀ

Roma, 07/11/2018

Gaetano Tieri

