Personal and Contact Details

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Place and Date of birth	Rome (Italy) 28 March 1988
Nationality	Italian

Skype
Website
Lab Website
Scholar
OrcID

Publications

Peer-Reviewed Articles

Rassi, E.; Fuscà, M.; Weisz, N.; Demarchi, G. (2019). Detecting Pre-Stimulus Source-Level Effects on Object Perception with Magnetoencephalography. *Journal of visualized experiments*, *149.* DOI: 10.3791/60120

Fuscà, M.; Neuling, T.; Ruhnau, P.; Weisz, N. (2018) Local network-level integration mediates effects of transcranial Alternating Current Stimulation. *Brain Connectivity, 8*(4), 212-219. DOI: 10.1101/216176

Ruhnau, P.; Neuling, T.; Fuscà, M.; Herrmann, C.S.; Demarchi, G.; Weisz, N. (2016) Eyes wide shut: Transcranial alternating current stimulation drives alpha rhythm in a state dependent manner. *Scientific Reports*, *6*, 27138. DOI: 10.1038/srep27138

Gregory, S.; Fuscà, M.; Rees, G.; Schwarzkopf, D.S.; Barnes, G. (2016) Gamma frequency and the spatial tuning of primary visual cortex. *Plos One 11*(6), e0157374. DOI: 10.1371/journal.pone.0157374

Neuling, T.; Ruhnau, P.; Fuscà, M.; Demarchi, G.; Herrmann, C.S.; Weisz, N. (2015) Friends, not foes: MEG as a tool to uncover brain dynamics during tACS. *NeuroImage 118*, 406-413. DOI: 10.1016/j.neuroimage.2015.06.026

Accepted - Preprint

Sanchez, G.; Frey, J. N.; Fuscà, M.; Weisz, N. (accepted, 2018) Decoding across sensory modalities reveals common supramodal signatures of conscious perception. *PNAS / bioRxiv, 115535*. DOI: 10.1101/115535

Conference Proceedings

Ruhnau, P.; Neuling, T.; Fuscà, M.; Herrmann, C. S.; Demarchi, G.; Weisz, N. (2017). P166. Evidence for state dependent direct effects of alpha band transcranial alternating current stimulation. *Clinical Neurophysiology, 128*(3), e99. DOI: 10.1016/j.clinph.2016.10.287

Neuling, T.; Ruhnau, P.; Fuscà, M.; Demarchi, G.; Herrmann, C. S.; Weisz, N. (2015). Shed light on the black box: Using MEG to recover brain activity during tACS. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 8*(2), 381-382. DOI: 10.1016/j.brs.2015.01.221

Fuscà, M.; Ruhnau, P.; Demarchi, G.; Weisz, N.; Neuling, T. (2015). Brain Modulation during transcranial Alternating Current Stimulation recorded with MEG. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 8*(2), 386. DOI: 10.1016/j.brs.2015.01.234

Research Experience

PostGraduate Research, INP - CCNi, University of Glasgow *08/2019 - Ongoing*
Critical Oscillations lab; research advisors: *S. Palva, M. Palva*
- MEG and sEEG oscillatory criticality, connectivity and hierarchy

PostGraduate Research, CCNS, University of Salzburg *03/2014 - 03/2019*
Salzburg Brain Dynamics lab; research advisor: *N. Weisz*
- M-EEG with concurrent TMS/tACS, causal inference of ERC-founded project *WIN2CON*

Graduate Research, Dartmouth College *07/2014 - 09/2016*
Haxby lab; project partners: *M. Visconti di Oleggio Castello, N. Oosterhof, I. Gobbini*
- Collaboration on a familiarity decoding multimodal fMRI and MEG study

Graduate Research, CIMeC, University of Trento *10/2011 - 10/2014*
Perception and Attention lab; research advisor: *J.V. Schwarzbach*
- MEG and fMRI in the Perceptual decision making project
- Eyetracking/fMRI in the ITPAR project (India-Trento Program for Advanced Research)

Graduate Research, FIL - UCL *01 - 07/2013*
Schwarkopf lab; research advisors: *S. D. Schwarzkopf, G.R. Barnes, G. Rees*
- Multimodal fMRI and MEG project relating retinotopic maps to perceptual function

Teaching Experience

Lecturer, Dept. of Psychology, University of Salzburg *10/2018 - 03/2019*
Empirical Seminar; Bachelor´s Programme in Psychology
- MEG, Predictive Coding, MVPA Decoding, Conducting and Analysing an MEG study

Teaching Assistant, CCNS, University of Salzburg *04/2017*
Open University Course; Lecturer: *G. Sanchez*
- Bayesian Inference, Free energy, SPM12 DCM

Teaching Assistant, CCNS, University of Salzburg *04 - 05/2016*
Open University Course; Lecturers: *G. Sanchez, C. Lithari*
- Connectivity, Granger Causality, Graph Mapping, Fieldtrip Analyses Pipeline

Workshop Assistant, FIL - UCL *05/2013*
SPM for EEG/MEG; Workshop Organizer: *G. Barnes*
- SPM8 Analyses Pipeline, Prepocessing, ERP/Fs, TFRs, Source Reconstruction, DCM

Education

Doctoral Degree, Cognitive Neuroscience, University of Trento, Trento, Italy *10/2014 – 03/2018*
Three-year PhD program in CIMeC (Center for Mind/Brain Sciences)
Supervisor: *Weisz, N.*
Thesis: *Predispositions of Conscious Perception: from Correlation to Causation*
Overall class grade: *cum laude*

Master Degree, Cognitive Neuroscience, University of Trento, Trento, Italy *09/2011 - 12/2013*
Two-year research-focused Master's course in Cognitive Neuroscience in CIMeC
Supervisor: *Schwarzbach, J.V.*
Thesis: *Abstract Auditory Categorical Representations and Domain-General Decision Making*
Overall class grade: *110 (out of 110) cum laude* (Best CIMeC Graduate 2013)

Bachelor's Degree, Cognitive Psychology, University "La Sapienza", Rome, Italy *09/2008 - 07/2011*
Three-year Laurea in "*Psychological sciences and techniques for the analysis and the clinical evaluation of cognitive processes*" at the Medicine and Psychology Faculty
Supervisor: *Rossi-Arnaud, C.*
Thesis: *Processing Central and Peripheral Details: How Emotional Content Influences Memory*
Overall class grade: *110 (out of 110) cum laude*

Conferences and Posters

First author poster presentations

10 years of CIMeC, 2017 Poster Presentation, Rovereto, Italy *10/2017*
Conference for 10th anniversary of CIMeC. Poster: *What happens in the brain during tACS?*

BioMag 2016 Poster Presentation, Seoul, South Korea *10/2016*
20th International Conference. Poster: *Online State-Dependent Effects of tACS*

Model-Based Neuroscience Summer School / Poster Presentation, Amsterdam, NL *07/2016*
3rd Workshop and Conference. Poster: *Rapid Auditory Categorization in the right Parietal lobe*

International Brain Stimulation Conference Poster Presentation, Singapore *03/2015*
1st International Elsevier Conference. Poster: *Brain Modulation during tACS recorded with MEG*

BioMag 2014 Poster Presentation, Halifax, NS, Canada *08/2014*
19th International Conference on Biomagnetism. Poster: *Abstract Auditory Categorical Representations and Domain-General Decision Making: a Multivariate MEG study*

Conferences attended

Cognitive Science Arena, 2015, 2017; Tübingen MEG Symposium, 2015; RAW, 2015; CAOs, 2014, 2015, 2017; SAMBA Meeting, 2017, 2018, 2019 (Organizer).

Workshops attended

SPM MEG course, 2013 (Organizer); Donders Tool-kit on tBS, 2014; The Brain and Ideas, 2014; Model-Based Neuroscience, 2016; Motivation, Selection, and Information, 2017.

Honours and Awards

Best CIMeC MSc Graduate 2013 Prize, University of Trento, Trento, Italy *13/11/2014*

Scholarship, Opera Universitaria, University of Trento, Trento, Italy *10/2011 - 12/2013*

Fellowship, College of Merit "Bernardo Clesio", University of Trento *07/2012- 12/2013*

Languages

Mother tongue	**Italian**
Second Language	**English** *(C2)*
Other Languages	*Spanish (B2); French (A2); German (A2)*

Other Skills and Competences

Informatics	MATLAB (Fieldtrip, SPM), Python (MNE), Rstudio, VB, HTML, SPSS. Windows and Linux computer environments, bash scripting, services and policies. Word processing programs, spreadsheets, databases, browsers, network management, multimedia, image and audio processing.
Social	Relational and orientation skills, acquired during working activities. High ability to adapt to different environments, gained through abroad studies.
Technical	Basic competence in electronics, electrical circuits and signal processing.