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OrcID

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Publications

Place and

Date of birth

Peer-Reviewed Articles

Rome (Italy)

28 March 1988

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

Nationality Italian

Ruhnau, Philipp; Neuling, Toralf; Fuscà, Marco; Herrmann, Christoph S.; Demarchi, Gianpaolo; Weisz, Nathan (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, Sarah; Fuscà, Marco; Rees, Geraint; Schwarzkopf, D. Samuel; Barnes, Gareth (2016) Gamma frequency and the spatial tuning of primary visual cortex. *Plos One 11*(6), e0157374. DOI: 10.1371/journal.pone.0157374

Neuling, Toralf; Ruhnau, Philipp; Fuscà, Marco; Demarchi, Gianpaolo; Herrmann, Christoph S.; Weisz, Nathan (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

Submitted - Preprint

Sanchez, G.; Frey, J. N.; Fuscà, M.; & Weisz, N. (submitted, 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

Curriculum Vitae Marco Fuscà

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Research Experience

PostGraduate Research, CCNS, University of Salzburg

03/2014 - Ongoing

Salzburg Brain Dynamics lab; research advisor: N. Weisz

- M-EEG with concurrent TMS/tACS, causal inference of ERC-founded project WIN2CON

<u>Graduate Research</u>, 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, 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, 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 - Ongoing

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

<u>Master Degree</u>, 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)

<u>Bachelor's Degree</u>, 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

Curriculum Vitae Marco Fuscà

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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 (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, 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.