

## Personal and Contact Details

First name	Marco		
Surname	Fusca		
Address	- Permanent : ..... via Menofilo, 65, 00178 Rome (Italy) - Current : ..... Johannes-Filzer-Straße 30, 5020 Salzburg (Austria) - Office : ..... NAWI, Hellbrunnerstraße 34/II, 5020 Salzburg (Austria)		
Telephone	- Mobile (Italy): ..... (+39)3402934893 (Austria): ..... (+43)68110478782		
E-mail	<a href="mailto:marco.fusca@sbg.ac.at">marco.fusca@sbg.ac.at</a> <a href="mailto:marco.fusca@gmail.com">marco.fusca@gmail.com</a>	Skype	<a href="#">markwelt</a>
Place and	Rome (Italy)	Nationality	Italian
Date of birth	28 March 1988		

## Publications

- Fusca, 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](https://doi.org/10.1101/216176)
- Ruhnau, Philipp; Neuling, Toralf; Fusca, 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](https://doi.org/10.1038/srep27138)
- Gregory, Sarah; Fusca, 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](https://doi.org/10.1371/journal.pone.0157374)
- Neuling, Toralf; Ruhnau, Philipp; Fusca, Marco; Demarchi, Gianpaolo; Herrmann, Christoph S.; Weisz, Nathan (2015) **Friends, not foes: Magnetoencephalography as a tool to uncover brain dynamics during transcranial alternating current stimulation** *NeuroImage* 118, 406-413. - DOI: [10.1016/j.neuroimage.2015.06.026](https://doi.org/10.1016/j.neuroimage.2015.06.026)

## Conferences and Posters

- [BioMag 2016](#) Poster Presentation, Seoul, South Korea October 2016  
20<sup>th</sup> International Conference. Poster title: 'Online State-Dependent Effects of tACS'
- [Model-Based Neuroscience](#) Summer School / Poster Presentation, Amsterdam, NL July 2016  
3<sup>rd</sup> Summer School in Model-Based Neuroscience. Poster title: 'Rapid Auditory Categorization in the right Parietal lobe'
- [International Brain Stimulation Conference](#) Poster Presentation, Singapore March 2015  
1<sup>st</sup> International Elsevier Brain Stimulation Conference. Poster title: 'Brain Modulation during transcranial Alternating Current Stimulation recorded with Magnetoencephalography'
- [BioMag 2014](#) Poster Presentation, Halifax, NS, Canada August 2014  
19<sup>th</sup> International Conference on Biomagnetism. Poster title: 'Abstract Auditory Categorical Representations and Domain-General Decision Making: a Multivariate MEG study'

## **Education**

**Doctoral Degree**, Cognitive Neuroscience, University of Trento, Trento, Italy 10/2014 – 03/2018

Three-year integrated program of research, instruction, and professional development in Cognitive Neuroscience based in the CIMEC - Center for Mind&Brain Sciences

Supervisor: Weisz, N.

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 English

Supervisor: Schwarzbach, J.V.

Overall class grade: 110 (out of 110) *cum laude* (Best CIMEC Graduate 2013)

**LLP Erasmus Study Programme**, Cognitive Neuroscience, UCL, London, UK 01/2013 - 07/2013

Full time Affiliate Graduate student in a 6 month programme at UCL, Psychology and Language Sciences Division. Consists of a MSc taught module and an internship project

Project Supervisors: Schwarzkopf, S.D.; Barnes, G.R.; Rees, G.

**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

Thesis: *Processing Central and Peripheral Details: How Emotional Content Influences Memory*

Overall class grade: 110 (out of 110) *cum laude*

## **Research Experience**

**PostGraduate Research Assistant**, CIMEC & NAWI 03/2014 - Ongoing

Interdepartmental Center for Mind/Brain Sciences; University of Trento, Italy

Naturwissenschaftliche Fakultät; Universität Salzburg, Austria

([Ongoing Brain Oscillations and Behaviour Lab](#); research advisor: N. Weisz).

- MEG and EEG with concurrent stimulation methods (TMS and tACS) in the causal inference part of the European Research Council- founded project WIN2CON

**Graduate Research**, CIMEC 10/2011 - Ongoing

Interdepartmental Center for Mind/Brain Sciences; University of Trento, Italy

([Perception and Attention lab](#); research advisor: J.V. Schwarzbach).

- MEG and fMRI in the Perceptual decision making project

trying to disentangle the sensory and motor systems from the decision variables independent of response and perceptual modalities with behavioural tasks and an fMRI experiment.

- Eyetracking in the ITPAR project (India-Trento Program for Advanced Research)

replicate and implement an fMRI/Eyetracking study examining neural mechanisms involved in the processing of motion in the visual and motor system in a joint venture with the Centre For Neuroscience of the Indian Institute of Science.

**Graduate Research**, FIL - UCL 01/2013 - 07/2013

Wellcome Trust Centre for Neuroimaging; University College London, UK

([Schwarkopf lab](#); research advisors: S. D. Schwarzkopf, G.R. Barnes, G. Rees).

- Multimodal fMRI and MEG project relating retinotopic maps to perceptual function.

The MEG/fMRI project elaborates on previous studies (Schwarzkopf et al., 2012, J.Neurosci.

32(4):1507–1512) trying to relate receptive field parameters and interindividual differences, gathered through fMRI, to MEG measures, namely the visually induced gamma oscillation frequency.

## **Work Experience**

- Research Assistant, NAWI - Universität Salzburg, Salzburg, Austria *02/2018 - Ongoing*  
MEG and tCS research in the Christian-Doppler-Klinik Universitätsklinikum
- Research Assistant, CIMeC - University of Trento, Trento, Italy *03/2014 - 09/2014*  
MEG and EEG with concurrent direct stimulation methods in the causal inference part of the European Research Council- founded project *WIN2CON*
- Collaboration Internship, Winner of an University work announcement *10/2011 - 03/2012*  
Collaboration (Bando di collaborazione 150 ore) at the "Welcome Office" of the University of Trento.  
Foreign students documentation management; activities organizing; public relationship, foreign students guidance and information service.
- Collaboration Internship, Winner of an University work announcement *04/2010 - 07/2010*  
Collaboration (Bando di collaborazione 150 ore) at the "Ufficio Tesi" and the "Nucleo di Valutazione di Facoltà" of "la Sapienza". Documentation management; student guidance; surveying of students' opinion; gathering of data from the structures, didactic and scientific activities.

## **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**

<i>Informatics</i>	Good knowledge of programming languages and programs creation (MATLAB, VB, HTML, SPSS). Excellent knowledge of informatics, computer environment and operating systems, particularly Windows and Linux platforms. Excellent knowledge of word processing programs, spreadsheets, databases, browsers, network management, multimedia, image and audio processing.
<i>Social</i>	Relational and orientation skills, acquired during working activities. High ability to adapt to multicultural and complicated environments, gained through abroad studies.
<i>Technical</i>	Basic competence in electronics, electrical circuits and signal processing.