

Alessia VOZZI

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Date of birth: 11/04/1990 | Nationality: Italian



EDUCATION

12/2013- 10/2016
Rome, Italy

Master's degree in **Biomedical engineering** at Sapienza-University of Rome

- Master's degree thesis: "**Neuroemotion; the estimation of emotions induced from classical music through the analysis of brain electrical activity.**" Supervisor Prof. Fabio Babiloni
Master's degree marker: 110/110

9/2009- 12/2013
Rome, Italy

Bachelor's degree in **Clinical engineering** at Sapienza-University of Rome

- Bachelor's degree thesis: "**Analysis of EEG signal, during the appreciation of artworks**". Supervisor Prof. F. Babiloni
Bachelor's degree marker: 98/110

9/2004-7/2009
Rome, Italy

High school graduation

- Liceo scientifico Democrito

WORK EXPERIENCES

01/2018- Now
Rome, Italy

Biomedical Engineer & GDPR specialist at **BrainSigns (Rome)**

- Acquisition of EEG, GSR and eye tracking signals in the field of neuromarketing.
- Experimental data processing and analysis.
- Graphic Computer Interface (GUI) optimization, working in a Matlab environment
- Responsible for the GDPR compliance

04/2017- 10/2018
Paris, France

Neuroscience researcher at **myBrain Technologies (France)**

- Designing of EEG experiments, paving the way for industrial partnerships and developing new features for the main product of the company: *melomind* (<https://www.melomind.com/>).
- EEG data acquisition, processing and interpretation by means of statistical analysis.
- Redaction of white papers and PPT presentations for co-workers and industrial partners.
- Two main researches conducted for the company: brain response in listening of familiar songs, considering musical liking and emotions as main factors of interest; study of brain activity modulation in response to different relaxation.

10/2016- 03/2017
Rome, Italy

Internship in biomedical engineering at **BrainSigns (Italy)**

- Acquisition of EEG, GSR and eye tracking signals in the field of neuromarketing.
- Experimental data processing and analysis.
- Study of event related potentials (ERP). Employment of LDA classifiers

03/2016- 08/2016
Paris, France

Internship in neuroscience at **myBrain Technologies (France)**

- Study of brain electrical activity during auditory stimulation.
- EEG data acquisition and processing. Application of statistical analysis.
- Master thesis redaction.
- This internship was financed by the ERASMUS PLUS TRAINEESHIP grant

04/2013- 11/2013
Rome, Italy

Internship in neuroscience at **BrainSigns (Italy)**

- Artefact removal and PSD computation from EEG data acquired in a real art gallery in Rome, during the observation of artwork. Collaboration in experimental executions and data meaning.

07/2013- 08/2013
Minneapolis, USA

Student experience at **University of Minnesota (USA)**

- EEG data acquisition and data processing in collaboration with the team of the professor Bin He, Dept. Biomedical Engineering, University of Minnesota, USA.

SCIENTIFIC ARTICLES AND CONFERENCES

- Ana C. Martinez-Levy, Nicolina Sciaraffa, Patrizia Cherubino, Alessia Vozzi, Vincenzo Ronca and Fabio Babiloni. Cognitive mental effort during unfamiliar food tasting experiences. H-WORKLOAD 2019
- Gianluca Di Flumeri, Pietro Aricò, Gianluca Borghini, Nicolina Sciaraffa, Vincenzo Ronca, Alessia Vozzi, Silvia Francesca Storti, Gloria Menegaz, Paolo Fiorini and Fabio Babiloni. EEG-based workload index as a taxonomic tool to evaluate the similarity of different robot-assisted surgery systems. H-WORKLOAD 2019
- Vera Rick, Julia N. Czerniak, Alexander Mertens, Vincenzo Ronca, Alessia Vozzi, Pietro Aricò, Gianluca Di Flumeri, Nicolina Sciaraffa, Carlos Alberto Catalina Ortega, Marteyn van Gasteren, Maite Cobo, Verena Nitsch, Fabio Babiloni and Gianluca Borghini. WorkingAge: Smart Working Environments for all Ages. H-WORKLOAD 2019.
- Gianluca Borghini, Pietro Aricò, Gianluca Di Flumeri, Vincenzo Ronca, Alessia Vozzi, Fabio Babiloni, “Monitoring performance of professional/occupational operators.” In press book chapter for the “Handbook of Clinical Neurology”, Elsevier.
- Conference paper at the 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'19) in Berlin, Germany:” Toward a cooperation index based on EEG-workload causality: preliminary findings on aerospace-like tasks” Nicolina Sciaraffa*, Gianluca Borghini, Pietro Arico, Gianluca Di Flumeri, Stefano Bonelli, Fabrice Drogoul, Alessia Vozzi, Vincenzo Ronca, Anastasios Bezerianos, Nitish Thakor, Fabio Babiloni
- Fanny Grosselin, Xavier Navarro-Sune, Alessia Vozzi, Katerina Pandremmenou, Fabrizio De Vico Fallani, Yohan Attal and Mario Chavez, “Quality Assessment of Single-Channel EEG for Wearable Devices”, Sensors 2019, 19(3), 601.
- E. Modica, G. Cartocci, P. Cherubino, A.G. Maglione, G. Di Flumeri, M. Mancini, D. Perrotta, P. Di Feo, P. Aricò, A. Vozzi, V. Ronca, F. Babiloni, Neurophysiological response to the packaging and product experience, Computational Intelligence and Neuroscience, 2018
- Poster at Cell-NERF Symposium: Neurotechnologies, Leuven, Belgium, September 30 – October 2, 2018. “Relax is a matter of brain: alpha and theta oscillations are sensitive to different states of relaxation”
- Poster at Cell-NERF Symposium: Neurotechnologies, Leuven, Belgium, September 30 – October 2, 2018. “I’m crazy about this song! Electrophysiological correlates of music liking and their interaction with emotions”
- G. Cartocci, A. G. Maglione, E. Modica, D. Rossi, N. Quaranta, M. Zinfullino, A. Ardito, A. Vozzi, V. Ronca, F. Babiloni. Is the younger the less effortful? An electroencephalographic comparison among consecutive generations of cochlear implant sound processors. International Journal of Bioelectromagnetism, Vol. 19, No. 1, pp. 11 - 17, 2017.

SUPPLEMENTARY SKILL

- Reviewer for the journals **TNSRE** (Transactions on Neural Systems & Rehabilitation Engineering) and **TBME** (Transactions on Biomedical Engineering)
- Very good knowledge of **Office** suite, **LaTeX**, **MATLAB** and **Statistica**
- Basic knowledge of **Python** (Scikit-learn library), **C++** and **Java** and coding software
- Teamwork, problem solving, flexibility, organization and communication

LANGUAGES

Italian: mother tongue | **English:** B2 | **French:** B1

HOBBIES

- Acting and singing in an amateur theatre company
- Practicing sports. I love trekking and climbing in the mountains
- Traveling to discover new countries and cultures
- Reading books in my spare time
- Voluntary activity: distributing of meals to the homeless people; sponsoring a child in El Salvador

I authorize the processing of my personal information in compliance with the European General Data Protection Regulation (UE n.679/2016 - GDPR).

