

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s)

**Eleonora Maggioni**

Address(es)

Telephone(s)

Fax(es)

E-mail

[eleonora.maggioni@polimi.it](mailto:eleonora.maggioni@polimi.it)

Nationality

Italian

### Desired employment / Occupational field

**Biomedical engineering**

### Work experience

Dates

Oct. 2011 onwards

Occupation or position held

**PhD candidate in Biomedical Engineering at Politecnico di Milano, Milan, Italy & I.R.C.C.S E.Medea, Bosisio Parini (LC), Italy**

Main activities and responsibilities

Development of techniques for the analysis of brain Magnetic Resonance Images and electrophysiological signals

Name and address of employer

Prof. A.M. Bianchi, Politecnico di Milano, p.za Leonardo Da Vinci 32, Milano  
Ing. G. Reni, IRCCS E.Medea, via Don Luigi Monza 10, Bosisio Parini, (LC)

Type of business or sector

Neuroimaging

Dates

September 2013 – February 2014

Occupation or position held

**PhD exchange period at Forschungszentrum of Juelich (Germany)**

Main activities and responsibilities

Processing of EEG signal acquired within MR environment at 3T and 9.4 T

Name and address of employer

Prof. N.J. Shah, Forschungszentrum Juelich GmbH, 52425 Juelich (Germany)

Type of business or sector	Neuroimaging
<b>Education and training</b>	
Dates	<b>February 15<sup>th</sup>, 2012</b>
Title of qualification awarded	<b>M. Sc. in Biomedical Engineering, 110 cum laude/110 (double degree)</b>
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	Politecnico di Torino, Turin, Italy
Dates	<b>October, 2008 to March, 2011</b>
Title of qualification awarded	<b>M. Sc. in Biomedical Engineering, 110 cum laude/110</b>
Principal subjects/occupational skills covered	<b>Master thesis: "fMRI connectivity networks: a whole brain functional parcellation method for nodes definition. Application to the analysis of epileptic activity propagation".</b> Creation of a new functional clustering algorithm useful as preliminary step for effective connectivity analysis.
Name and type of organisation providing education and training	Politecnico di Milano, Milan, Italy
Dates	<b>October, 2008 to March, 2010</b>
Title of qualification awarded	<b>Alta Scuola Politecnica (ASP) degree</b>
Principal subjects/occupational skills covered	<i>ASP mission is to provide high-profile graduates combining in-depth disciplinary knowledge with interdisciplinary skills that are needed to work and contribute leadership in a multidisciplinary environment.</i> <b>ASP PROJECT:</b> "Reinventing the wheels... into wills": development of a new generation manual wheelchair with propulsion aids, combining high technology with a "user-centered" design.
Name and type of organisation providing education and training	Politecnico di Milano & Politecnico di Torino, Italy
Dates	<b>August, 2009 to December, 2009</b>
Title of qualification awarded	<b>Erasmus Exchange Program</b> - Danmarks Tekniske Universitet, Lyngby, Denmark
Principal subjects/occupational skills covered	<i>ASP mission is to provide high-profile graduates combining in-depth disciplinary knowledge with interdisciplinary skills that are needed to work and contribute leadership in a multidisciplinary environment.</i> <b>ASP PROJECT:</b> "Reinventing the wheels... into wills": development of a new generation manual wheelchair with propulsion aids, combining high technology with a "user-centered" design.
Name and type of organisation providing education and training	Politecnico di Milano & Politecnico di Torino, Italy
Dates	<b>September, 2005 to September, 2008</b>
Title of qualification awarded	<b>B.Sc. in Biomedical Engineering, 110 cum laude/110</b> , Politecnico di Milano, Italy.
Principal subjects/occupational skills covered	<b>Bachelor thesis: "EEG response to Intermittent Photic Stimulation in control subjects and in patients with Unverricht Lundborg syndrome".</b>
Name and type of organisation providing education and training	Politecnico di Milano, Milan, Italy
Dates	<b>September, 2007</b>
Title of qualification awarded	175 hours stage in Clinical Engineering
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	at the Hospital of Busto Arsizio (VA), Italy

## Publications

Dates October 2014

Title Maggioni E., Arrubla J., Warbrick T., Dammers J., Bianchi A.M., Reni G., Tosetti M., Neuner I., Shah N.J., "Removal of pulse artifact from EEG data recorded in MR environment at 3T. Setting of ICA parameters for marking artefactual components: application to resting-state data." Plos One, in press

Dates March, 2014

Title Maggioni E., Tana M.G., Arrigoni F., Zucca C., Bianchi A.M., "Constructing fMRI connectivity networks: a whole brain functional parcellation method for node definition.", Journal of Neuroscience Methods, in press.

Dates March, 2014

Title Maggioni E., Costagli M., Reni G., Bianchi A.M., Tosetti M., "Minimum Intensity Snake Algorithm (MISA) for segmenting brain tissues in MR TBE images.", ISMRM 2014, May 12-16, Milano, Italy (1 page).

Dates April, 2013

Title Maggioni E., Molteni E., Arrigoni F., Zucca C., Reni G., Triulzi F.M, Bianchi A.M, "Coupling of fMRI and NIRS Measurements in the Study of Negative BOLD Response to Intermittent Photic Stimulation", Contributed paper for the 35th Annual International IEEE EMBS Conference, July 3- 7, 2013, Osaka, Japan

Dates April, 2013

Title Cavalleri M., Carcano A., Morandi F., Piazza C., Maggioni E., Reni G. "A New Device for the Care of Congenital Central Hypoventilation Syndrome Patients During Sleep". Contributed paper for the 35th Annual International IEEE EMBS Conference, July 3-7, 2013, Osaka, Japan. (4 pages)

Dates January, 2013

Title Arrigoni F, Maggioni E., Zucca C., Bianchi A.M, Reni G., Triulzi F.M. *Symmetric negative BOLD signal in extrastriate visual cortex during intermittent photic stimulation*. Abstract at 19th Annual Meeting of the Organization for Human Brain Mapping, June 16-20, 2013, Seattle, WA, USA

Dates August, 2011

Title Maggioni E., Tana M.G. and Bianchi A.M., *A whole-brain functional parcellation method for the construction of fMRI networks*. Proceedings of Il Terzo Congresso Nazionale di Bioingegneria, June 26-29, 2012, Rome, Italy

Mother tongue(s) **Italian**

Other language **English**  
**PET from Cambridge University ESOL examinations - passed with merit**  
**FIRST by Cambridge University ESOL examinations - grade B**  
**Internet based TOEFL - grade 95/120**

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Intermediate I	C1	Advanced	B1	Intermediate	B1	Intermediate	C1	Advanced
A2	Elementary	A2	Elementary	A2	Elementary	A2	Elementary	A2	Elementary

(\*) Common European Framework of Reference for Languages

Social skills and competences Voluntary work in soup kitchen

Organisational skills and competences Team working in multidisciplinary projects

Computer skills and competences Machine languages: Matlab, C, Java, MySql  
 Medical software: SPM, BrainVoyager, Freesurfer, Slicer3D, FSL, MRICro, ImageJ, EEGlab,  
 Office suite  
 Operating Systems: Windows, Linux

Artistic skills and competences Playing percussions and singing in an acoustic group. Cooking.

