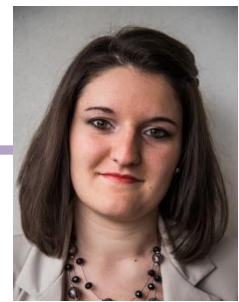


# Silvia Obertino



## Contacts and Details

 <u>Born</u>	December 31th, 1990, in Verona
 <u>Nationality</u>	Italian
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## Education

<u>01/10/2015 -</u>	<b>PhD in Computer Science, school in Natural Sciences and Engineering, University of Verona, Verona (Italy).</b> Supervisor: Prof. Gloria Menegaz
<u>01/10/2013 - 15/07/2015</u>	<b>Master degree in Computer Science and Engineering, specialized in Visual Computing, University of Verona, Verona (Italy).</b> Grade: 110/110 L, GPA: 27.8/30. Diploma project: “Cortical and subcortical motor networks assessment based on SHORE-derived biomarkers with application to stroke” Supervisor: Prof. Gloria Menegaz
<u>01/10/2010 - 15/07/2013</u>	<b>Bachelor degree in Bioinformatic, University of Verona, Verona (Italy),</b> Grade: 101/110, GPA: 26.45/30. Diploma project: “Investigation of myelin plasticity of the subcortical motor network through DSI-based tractometry” Supervisor: Prof. Gloria Menegaz
<u>01/09/2005 - 04/07/2010</u>	<b>Scientific high school diploma, science and technology high school “G. Galilei”, Verona (Italy), Grade: 67/100.</b> Thesis about fourth dimension.

## Research Experiences

December 2014 – June 2015, Stage in Computer Science Department University of Verona

<u>Supervisor</u>	Dr. Mauro Zucchelli
<u>Description</u>	Study and development of small analysis tool about Neuronavigator system in collaboration with EBNeuro Company, analysis of electromagnetic fields, and small courses about using Transcranial Magnetic Stimulation with Prof. Paolo Manganotti. Moreover, analysis of diffusion weighted images and in development of quantitative methods of numerical biomarkers analysis to characterized the structure of brain tissue.

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October 2012 – April 2013, Stage in Computer Science Department University of Verona

Supervisor

Dr. Francesca Pizzorni Ferrarese

Description

Study and analysis of diffusion weighted images, and use of toolbox for Magnetic Resonance imaging as Freesurfer for segmentation, diffusion toolkit for signal reconstruction, Trackvis to view volume data. Moreover, study of connectome mapper pipeline.

## — Languages

Italian

Mother tongue

English

Spoken fairly good, written fairly good

## — Computer skills

Programming

**Java** (intermediate, 3 years' experience)

**Python** (beginner, 6 months' experience)

**C/C++** (intermediate, 3 years' experience)

Scientific computing

**Matlab** (intermediate, 4 years' experience)

**Qt** (beginner, 6 months' experience)

**SQL** (beginner, 1 year's experience)

**HTML** (intermediate, 3 years' experience)

**XML** (beginner, 1 year's experience)

## — Publications

**Journal:**

Brusini, L., Obertino, S., Galazzo, I. B., Zucchelli, M., Krueger, G., Granziera, C., & Menegaz, G. (2016). Ensemble average propagator-based detection of microstructural alterations after stroke. *International Journal of Computer Assisted Radiology and Surgery*, pp. 1-13. (doi: 10.1007/s11548-016-1442-z)

**Conference Proceeding:**

Méndez C.A., Obertino S., Menegaz G. (2016). Shore-based microstructural indices: do they tell us more? Conference proceeding: 6<sup>th</sup> *International Workshop on PRNI*. Trento, Italy. To appear (*oral session*)

Obertino S., Roffo G., Granziera C., Menegaz G. (2016). Infinite feature selection on shore-based biomarkers reveals connectivity modulation after stroke. Conference proceeding: 6<sup>th</sup> *International Workshop on PRNI*. Trento, Italy. To appear (*oral session*)

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Obertino S., Brusini L., Boscolo Galazzo I., Zucchelli M., Granziera C., Cristani M., Menegaz G. (2016). Shore-based biomarkers allow patient versus control classification in stroke. Conference proceeding: *ISBI: From Nano to Macro*. Prague, Czech Republic. pp. 1097-1100 (oral session) (doi: 10.1109/ISBI.2016.7493457)

Brusini L., Obertino S., Zucchelli M., Boscolo Galazzo I., Krueger G., Granziera C., and Menegaz G. (2015). Assessment of Mean Apparent Propagator-based indices as biomarkers of axonal remodeling after stroke. Conference proceeding: *18<sup>th</sup> International Conference on MICCAI*. Munich, Germany. pp. 199-206. (traditional poster) (doi: 10.1007/978-3-319-24553-9\_25)

## Abstract:

Brusini L., Zucchelli M., Obertino S., Menegaz G. (2016). Characterization of diffusion MRI signal non Gaussianity using MAPMRI. Conference proceeding: *ISMRM Workshop on Breaking the Barriers of Diffusion MRI*. Lisbon, Portugal. To appear (traditional poster)

Obertino S., Storti S.F., Daducci A., Granziera C., Menegaz G. (2016). Graph-based analysis of the structural connectivity network modulation in stroke patients. Conference proceeding: *22<sup>nd</sup> Annual meeting of OHBM*. Geneva, Switzerland. (traditional poster: 3303)

Obertino S., Daducci A., Granziera C., Menegaz G. (2016). Analysis of GFA changes along the subcortical motor network after stroke. Conference proceeding: *Italian Chapter ISMRM*. Bologna, Italy. (traditional poster: 48)

Obertino S., Brusini L., Boscolo Galazzo I., Zucchelli M., Daducci A., Menegaz G., and Granziera C. (2016). Cortico-Subcortical motor network integrity relates to functional recovery after stroke. Conference proceeding: *24<sup>th</sup> Joint Annual Meeting and Exhibition ISMRM*. Singapore. (E-poster: 3074)

Obertino S., Zucchelli M., Daducci A., Granziera C. and Menegaz G. (2015). Tractometry of the subcortical motor network using SHORE-based indices. Conference proceeding: *Italian Chapter ISMRM*. Verona, Italy. (traditional poster: 32)

Obertino S., Lin Y., Daducci A., Thiran J., Meuli R., Krueger G., Granziera C. and Menegaz G. (2014). Tract-based assessment of the subcortical motor network plasticity after stroke. Conference proceeding: *22<sup>nd</sup> Joint Annual Meeting ISMRM-ESMRMB*. Milan, Italy. (traditional poster: 4764)

Obertino S., Lin Y., Thiran J., Meuli R., Krueger G., Daducci A., Granziera C. and Menegaz G. (2013). A Diffusion Spectrum Imaging study of the cortico-subcortical motor connections after Stroke. Conference proceeding: *ISMRM Diffusion Workshop on Diffusion as a Probe of Neural Tissue Microstructure*. Podstrana, Croatia. (traditional poster: 22)