

# Silvia F. Storti

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## *Curriculum Vitae*

### **Silvia Francesca Storti**

Position Assistant Professor  
Affiliation Department of Computer Science, University of Verona  
Strada Le Grazie, 15 - 37134 Verona  
Office Ca' Vignal 2, Floor 1, Room 64A  
Labs Neuroimaging Lab; Vision, Image Processing & Sound Lab  
E-mail [silviafrancesca.storti@univr.it](mailto:silviafrancesca.storti@univr.it)  
Webpage <http://www.univr.it/~storti>

### **Brief Bio**

Silvia F. Storti is Assistant Professor at the Department of Computer Science, University of Verona, Italy. She received the Master Degree in Electronic Engineering from the University of Padova (2007) and the Ph.D. Degree in Neuroscience from the University of Verona, Italy (2012). In 2008 she worked as research associate at the Department of Neurological and Vision Sciences, University of Verona; from Jan 2012 to Dec 2013 she worked as post-doctoral researcher at the Department of Neurological and Movement Sciences, University of Verona. From 2014 to 2018, she worked as Post-Doc Researcher in the Neuroimaging Lab led by Prof. Gloria Menegaz at the Department of Computer Science, University of Verona. Since 2018 she is Assistant Professor (RTDb) at the same Department.

She is co-author of 50 publications on International Peer-Reviewed Journals. She is currently developing novel methods for estimating the brain connectivity from non-invasive brain imaging recording (electroencephalography (EEG)/high-density EEG, functional magnetic resonance imaging (fMRI) and arterial spin labeling (ASL) data) in healthy and pathological conditions. In particular, the current focus is on the development of brain connectivity methods for estimating the cortical activity, characterize the temporal dynamics and decode the functional connectivity patterns of the brain regions. The challenge is to develop new measures of brain network characteristics and integrating them with the information derived from multiple imaging modalities including microstructural diffusion MRI. She is also currently involved in the study of alterations in source and connectivity EEG patterns during hyperbaric oxygen breathing in professional divers under simulated deep-sea condition in collaboration with the Italian Navy Medical Service Comsubin Varignano, Le Grazie (La Spezia).

## Italian National Scientific Qualification

mar. 2017 She complies with the Italian requirements (Italian National Scientific Qualification 2016 - Abilitazione Scientifica Nazionale) for the role of Associate Professor in the Academic Area of Bioengineering 09/G2 from 03/30/2017 to 03/30/2023

## Bibliometric Parameters

ORCID <http://orcid.org/0000-0002-8605-803X>  
Scopus ID 24339432600  
Researcher ID K-3142-2016  
H-index 17 - Scopus (April 5th, 2019)  
Citations 662 - Scopus

## Scientific Production Summary

50 Papers on international peer-reviewed journals (13 as first author, 14 as second author, 1 as last author)  
10 Short-papers (proceedings) on international conferences  
1 National book chapter  
>60 International and national conference abstracts

## Education

Nov. 2007 **Master Degree (Laurea) in Electronic Engineering (curriculum Biomedical Engineering)** (*University of Padova, Italy*)

Graduation thesis: "Methods for modeling brain activation in fMRI", supervisor: Prof. Gianna M. Toffolo.

Jan. 2009– **Ph.D. Degree in Neuroscience** (*University of Verona, Italy*)

Dec. 2011 Graduate School of Sciences Engineering Medicine, PhD degree in Neuroscience (XXIV cycle).

Dissertation: "Multimodal imaging approach for quantitative assessment of epilepsy". Supervisor: Prof. Paolo Manganotti, Reviewer: Prof. Michel M. Christoph (University of Genève).

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## Work Experiences

- Mar. 2008– **Research Fellow** (*University of Verona, Italy*)  
Dec. 2008 Research activity on “Vascular changes and neuroinflammation in the experimental and human epilepsy: identification of new drug targets. EEG-fMRI coregistrations”. Supervisor: Prof. Paolo Manganotti; Department of Neurological and Vision Sciences, University of Verona. Research fellowship funded by the Cariverona Foundation (Fondazione Cassa di Risparmio di Verona Vicenza Belluno e Ancona), S.S.D. MED26.
- Jan. 2012– **Post-Doctoral Research Fellow - Two years** (*University of Verona, Italy*)  
Dec. 2013 Research activity on “Multimodal approach to the study of dementia and mild cognitive impairment”. Supervisor: Prof. Paolo Manganotti; Department of Neurological and Movement Sciences, University of Verona. Two-year scholarship funded by the Cariverona Foundation (Fondazione Cassa di Risparmio di Verona Vicenza Belluno e Ancona), S.S.D. MED26
- Apr. 2014– **Post-Doctoral Research Fellow - Two years** (*University of Verona, Italy*)  
Sep. 2016 Research activity on “Assessment of functional connectivity in motor tasks and investigation of its relation with DTI-derived structural pathways”. Supervisor: Prof. Gloria Menegaz, Department of Computer Science, University of Verona, S.S.D. INF01  
Maternity leave from Oct 23th, 2014 to Mar 23th, 2015.
- Oct. 2016– **Post-Doctoral Research Fellow** (*University of Verona, Italy*)  
Sep. 2017 Research activity on “Studio, implementazione e validazione di interfacce per sistemi robotici”. Supervisor: Prof. Gloria Menegaz, Department of Computer Science, University of Verona, S.S.D. INF01, FSE 2014-2020.
- Oct. 2017– **Post-Doctoral Research Fellow** (*University of Verona, Italy*)  
Oct. 2018 Research activity on “Brain microstructural modeling for improved TMS anchoring”. Supervisor: Prof. Gloria Menegaz, Department of Computer Science, University of Verona, S.S.D. INF01, Project “BrAnch” - Joint Projects 2015.  
Maternity leave from Jan 2nd to Aug 30th, 2018.
- Nov. 2018– **Current Position: Assistant Professor (RTDb)** (*University of Verona, Italy*)  
Oct. 2021 Department of Computer Science, University of Verona.

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## Research and Consulting assignments

- Jan. 2008 **Research contract** (*University of Padova, Italy*)  
Description: statistical analysis of biomedical signals. Supervisor: Prof. Gianna M. Toffolo, Department of Information Engineering, University of Padova.

- Nov. 2012– **Research contract** (*EB Neuro Spa, Florence, Italy*)
- Jun. 2013 Description: quantitative analysis of electroencephalographic data of healthy and oxygen-sensitive subjects acquired during the breathing of air at 0 msw, oxygen at 18 msw and air after the decompression phase at 0 msw in a hyperbaric chamber (Italian Navy divers, Italian Navy Medical Service CONSUBIN Varignano, Le Grazie, La Spezia).
- Jul. 2014– **Research contract** (*EB Neuro Spa, Florence, Italy*)
- Aug. 2014 Description: quantitative analysis of electroencephalographic data of students (not experienced divers) acquired during the breathing of air and oxygen at normobaric pressure; breathing air at 0 msw, oxygen at 18 msw and breathing air at 0 msw after the decompression phase in a hyperbaric chamber (Italian Navy divers, Italian Navy Medical Service CONSUBIN Varignano, Le Grazie, La Spezia).

## Scientific Participation in Research Projects

### Projects funded by Public Organizations

- 2009-2010 **Ricerca Sanitaria Finalizzata – Regione Veneto** (*Venezia, Verona, Treviso, Vicenza*).
- “Studio sull’uso della Stimolazione Magnetica Transcranica e della Stimolazione Elettrica Diretta Continua Transcranica, per migliorare la diagnosi e la prognosi e per proporre un approccio terapeutico innovativo nei pazienti in stato vegetativo” (PI: Dr. S. Casson), duration: 24 months.
- 2012-2013 **Joint Project 2011 - Università di Verona - ATES MEDICA Device s.r.l.**
- “Highly reliable image-guided multimodal neuronavigation for motor cortex stimulation - JP 2011”. PI: Prof. P. Manganotti, partner: ATES MEDICA Device s.r.l. (Verona, Italy), duration: 24 months.
- 2013-2014 **Joint Project 2012 - Università di Verona - EBNeuro s.r.l.**
- “AHeAD, Automatic Human behavior Analysis in neurological Diseases: the case of epilepsy - JP 2012”. PI: Prof. G. Menegaz, partner: EB Neuro Spa (Firenze, Italy), duration: 24 months.
- 2015-2016 **Joint Project 2014 - Università di Verona - EBNeuro s.r.l.**
- “BRAINCO, Investigation of structural and functional brain connectivity from multimodal data - JP 2014”. PI: Prof.ssa G. Menegaz, partner: EB Neuro Spa (Firenze, Italy), duration: 24 months.
- 2016-2017 **Joint Project 2015 - Università di Verona - EBNeuro s.r.l.**
- “BrAnch, Brain microstructural modeling for improved TMS anchoring - JP 2015”. PI: Prof.ssa G. Menegaz, partner: EB Neuro Spa (Firenze, Italy), duration: 24 months.

## Projects funded by Private Organizations

- 2007-2008 **Italian Foundation Project (Fondazione Cariverona)**  
“Vascular changes and neuroinflammation in experimental and human epilepsy: identification of new drug targets” PI: Dr. B. Dalla Bernardina, duration: 24 months.
- 2011-2013 **Italian Foundation Project (Fondazione Cariverona)**  
“Disabilità cognitiva e comportamentale nelle demenze e nelle psicosi”, PI: Prof. N. Rizzuto, duration: 36 months.
- 2016 **Italian Foundation Project (Verona Brain Research Foundation)**  
“Mapping functional connectivity patterns in neurological and neurosurgical diseases with Arterial Spin Labeling and Blood Oxygenation Level Dependent MRI”, PIs: Prof. G. Menegaz - Dr. F.B. Pizzini, duration: 12 months.
- 2017 **Italian Foundation Project (Verona Brain Research Foundation)**  
“Brain connectivity underlying physiological and pathological patterns in action tremor”, PIs: Prof. G. Menegaz - Dr. F.B. Pizzini, duration: 12 months.

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## International Events Organization

- Jan 2008 **International Workshop on: “Dense Array EEG and Epilepsy”**, Jan 26, 2008, Policlinico Universitario G.B.Rossi, Verona, Italy. Member of the Local Organizing Committee.
- May 2008 **International Workshop on: “Coregistration EEG-fMRI and epilepsy”**, May 30, 2008, Policlinico Universitario G.B.Rossi, Verona, Italy. Member of the Local Organizing Committee.
- Mar 2012 **International Workshop on: “Multimodal Brain Imaging in Epilepsy”**, Mar 23, 2012, Department Neurosciences, Biomedicine and Movement Sciences, University of Verona, Italy. Member of the Local Organizing Committee.
- Sep 2016 **“2016 Summer School on Brain Connectomics - First Edition”**. Sponsored by PhD School in Natural Sciences and Engineering and Dept. of Computer Science University of Verona, Fondazione Bruno Kessler, MICCAI, ISMRM Italian Chapter, AINR, University of Trieste. Sep 19-22, 2016, Department of Computer Science, University of Verona, Italy. Member of the Organizing Committee. <http://brainconnectomics.org/archive/2016/index.html>
- Oct 2017 **“2017 IEEE SPS Winter School on Brain Connectomics - Second Edition”**, sponsored by PhD School in Natural Sciences and Engineering and Dept. of Computer Science University of Verona, IEEE Signal Processing Society, MICCAI, Brain Research Foundation. Oct 09-13, 2017, Department of Computer Science, University of Verona, Italy. Member of the Scientific Organizing and Local Committee. <http://brainconnectomics.org>

## Editorial Responsibilities

- Nov 2017-ongoing **Associate Editor** for *BioMedical Engineering OnLine*
- 2013-2014 **Guest Associate Editor** for *Frontiers in Neurology - Epilepsy*  
Co-editor of the Research Topic "The role of neuroimaging in the pre-surgical evaluation of the epileptic patient".
- Apr-Nov 2017 **Editorial Board Member** for *BioMedical Engineering OnLine*
- Dic 2017-ongoing **Review Board Member** for *Brain Topography*

## Reviewing

### Reviewer for international projects

- 2018 Swiss National Science Foundation (SNF).

### Referee activity

- Since 2010 Referee for several international peer-reviewed journals, including: Journal of Neuroscience Methods, Journal of Neuroengineering and Rehabilitation, Experimental Brain Research, IEEE Transactions on Biomedical Engineering, PloS One, Brain Topography, Biomedical Signal Processing and Control, EURASIP Journal on Image and Video Processing, IEEE Journal of Biomedical and Health Informatics, BioMedical Engineering OnLine.
- Since 2014 Referee for several international conferences, including: Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC, International Workshop on Pattern Recognition in Neuroimaging, PRNI, International Conference on Biological Information and Biomedical Engineering, BIBE, International Symposium on Biomedical Imaging, ISBI.

## Visiting

- Jul 2008 *Visiting Scientist* at IRCCS Venice, San Camillo Hospital, Lido di Venezia, Dr. Franco Piccione.
- Jun 2012 *Visiting Scientist* at the Functional Brain Mapping Laboratory (University of Genève, Switzerland, Prof. Christoph Michel).
- Jun 2013 *Visiting Scientist* at Italian Navy, Le Grazie, La Spezia, Prof. Lucio Pastena.

## Awards

- 2008 Oral Presentation Award "Continuous EEG-fMRI study in patients with partial epilepsy and focal interictal slow-rate discharges on EEG", at the 13th European Congress of Clinical Neurophysiology, May 9, 2008, Istanbul, Turkey.

- 2012 Paul Durst Prize - 2012 awarded by the National Group of Bioengineering for the best Italian Ph.D. Thesis in Bioengineering.
- 2018 Best Poster Award at the 2nd International Workshop on Connectomics in Neuroimaging (CNI) held in conjunction with MICCAI 2018, September 20, 2018, Granada, Spain.

## Presentations to International Conferences and Schools

### International Conferences (Oral and Invited Talks)

- Sep 5 2013 "Combination of ESI, ASL and PET for quantitative assessment of drug-resistant focal epilepsy", *International Conference on Basic and Clinical Multimodal Imaging, BACI*, Genève, Switzerland.
- Nov 21 2013 "Non-invasive multimodal imaging approach for quantitative assessment of drug-resistant focal epilepsy". *Workshop: Brain Connectivity in Epilepsy and Sleep*, Modena, Invited Talk.
- May 13 2014 "Resting-state cerebral blood flow and functional connectivity in focal epilepsy as assessed by arterial spin labeling". *Joint Annual Meeting ISMRM-ESMRMB 2014*, Milano.
- Jun 17 2016 "High-density EEG and Functional MRI in epileptic patients" *Research meeting: "Translational neurophysiology and neuroimaging in neurological disorders*, Department of Medical, Surgical and Health Sciences, Clinical Neurology Unit, Cattinara University Hospital, Trieste, Invited Talk.
- Sep 21 2018 "Teaching Course EEG ad alta specializzazione" *Research meeting: "Teaching Course EEG ad alta specializzazione"*, Department of Medical, Surgical and Health Sciences, Clinical Neurology Unit, Cattinara University Hospital, Trieste, Invited Talk.

### National Conferences (Invited Talks)

- Apr 10 2008 "Coregistrazione fMRI e movimento e potenziali evocati", *Primo Workshop interdipartimentale Addiction & Neuroscience*, Dipartimento delle Dipendenze, Università di Verona.
- May 20 2015 "Multimodalità e movimento: il progetto NAVLab", *Incontro congiunto SINC-SIAMOC*, Dipartimento di Informatica, Università di Verona.
- May 21 2015 "Metodiche EEG ad alta specializzazione nella pratica clinica. Applicazione di high-density EEG nello studio dell'epilessia focale", *60° Congresso Nazionale Società Italiana di Neurofisiologia Clinica*, Polo Zanutto - Università di Verona.
- May 27 2016 G.S. Neurofisiologia del Movimento. Dal planning alla performance motoria: strumenti e metodologie di analisi. "L'analisi del segnale EEG: un nuovo approccio allo studio dei pattern motori?", *61° Congresso Nazionale Società Italiana di Neurofisiologia Clinica*, Sapienza Università di Roma, Facoltà di Economia - Latina, Roma.

## International Schools

- Oct 9-13 "Decoding the brain activity: functional neuroimaging and connectivity." *2017 IEEE*  
2017 *SPS Winter School of Brain Connectomics - Second Edition, Session: Functional Imaging*, Department of Computer Science, University of Verona.

## National Schools

- Feb 29-Mar 5 "Principi di risonanza magnetica funzionale. Confronto con l'esperto." *Corso di Ri-*  
2016 *abilitazione e Neurofisiologia Clinica, Sessione: Neuroimaging e Recupero Motorio*, Abano Terme.

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## Invited Seminar Activity

- Mar 16 2011 "Human movement analysis for hand performance in the EEG-fMRI coregistration",  
*Appointments of Physiology of Exercise and Sport*, Dipartimento di Scienze Motorie,  
Università di Verona.
- Jun 29 2012 "A multimodal imaging approach for quantitative assessment of epilepsy", Functional  
Brain Mapping Laboratory, University of Genève.
- May 8 2013 "A multimodal imaging approach for quantitative assessment of epilepsy", *Lecture*  
*Alumni*, Dipartimento di Scienze Neurologiche e del Movimento, University of  
Verona.
- Dic 12 2013 "Neuroimaging techniques and multimodal analysis in epilepsy", Department of  
Mathematics, University of Trento.
- Dic 2 2015 "High-density Electroencephalography and Electrical Source Imaging", Department  
of Mathematics, University of Trento.
- Dic 7 2017 "Decoding the brain activity: from functional neuroimaging to connectivity", Padua  
Neuroscienze Center, PNC, University of Padova.

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## Poster Presentations

### International Conferences

- May 4-9 2008 "Effect of stimulus rate during median nerve stimulation on BOLD activity: a  
3T fMRI study" *13th European Congress of Clinical Neurophysiology*, Istanbul,  
Turkey.
- Sep 24-27 "Functional magnetic resonance imaging study: choice among linear basis set for  
2008 hemodynamic response functions in acute stroke patients" *World Stroke Forum*,  
Wien, Austria.
- Jun 18-23 "Wavelet analysis as a tool for investigating movement-related cortical oscillations  
2009 in EEG signals acquired during 3T fMRI recordings" *15th Annual Meeting of the*  
*Organization of the Human Brain Mapping*, San Francisco, California, USA.



- Jun 18-23 2009 "Selection of optimal hemodynamic response function for fMRI analysis on acute stroke patients" *15th Annual Meeting of the Organization of the Human Brain Mapping*, San Francisco, California, USA.
- Jun 6-10 2010 "Automatic Selection of ICA Components in fMRI Resting-State Time Series" *16th Annual Meeting of the Organization of the Human Brain Mapping*, Barcelona, Spain.
- Jun 20-24 2011 "Multimodality approach in presurgical evaluation of epilepsy" *14th European Congress of Clinical Neurophysiology*, Rome, Italy.
- Agio 28 - Sep 1 2011 "Multimodality approach in presurgical evaluation of epilepsy" *29th International Epilepsy Congress*, Rome, Italy.
- Jun 16-20 2013 "Combination of ESI, ASL and PET for quantitative assessment of pharmaco-resistant focal epilepsy" *19th Annual Meeting of the Organization of the Human Brain Mapping*, Seattle, WA, USA.
- Jun 16-20 2013 "Modelling hemodynamic response function in epilepsy" *19th Annual Meeting of the Organization of the Human Brain Mapping*, Seattle, WA, USA.
- Jun 16-20 2013 "Effect of voluntary long-lasting muscle contraction on BOLD signal assessed by the optimal HRF" *19th Annual Meeting of the Organization of the Human Brain Mapping*, Seattle, WA, USA.
- Sep 5 2013 "Quantitative EEG during hyperbaric oxygen breathing in professional divers" *International Conference on Basic and Clinical Multimodal Imaging, BACI*, Genève, Switzerland.
- Sep 16 2014 "Towards the assessment of motor network's behavioral correlates by Video-EEG" *IEEE International Conference on Healthcare Informatics (ICHI 2014)*, Verona, Italy.
- Jun 29 2016 "Epileptic brain networks as detected by time-variant effective connectivity and graph analysis of high-density EEG data." *22nd Annual Meeting of the Organization for Human Brain Mapping*, Genève, Switzerland.
- Jun 28 2016 "Functional Sensitivity of Dual-Echo ASL in Localizing Active and Imagery Hand Movements." *22nd Annual Meeting of the Organization for Human Brain Mapping*, Genève, Switzerland.

### National Conferences

- May 15-17 2008 "Studio FMRI: scelta della HRF tra un set di risposte lineari in pazienti con stroke in fase acuta con attivazione dell'area sensitivo-motoria durante la stimolazione elettrica del nervo mediano" *Congresso Nazionale della Società Italiana di Neurofisiologia Clinica*, Venezia.
- Jul 3-5 2008 "fMRI study: choice among linear basis set for HRF in acute stroke patients with activation in motor-sensory cortex during median nerve electrical stimulation" *Primo Congresso Nazionale di Bioingegneria*, Pisa.
- Jul 8-10 2010 "Automatic Selection of ICA Components in fMRI Resting-State Time Series" *Secondo Congresso Nazionale di Bioingegneria*, Torino.

## Teaching and Advisory Activity

- 2019 "Probability and Statistics", BSc in Computer Science - BSc in Bioinformatics (8 CFU)
- 2008-2018 Teaching Assistant for MSc in Bioengineering (University of Padova, Italy), MSc in Bioinformatics and Medical Biotechnology (University of Verona, Italy), MSc in Mathematics (University of Trento, Italy), and MSc in Computer Science and Engineering (University of Verona, Italy).
- Since 2008 Co-advisor of 6 students of MSc in Bioengineering, University of Padova (Italy), 2 students of the Post-Degree Graduate Course, 1st level, in Information Elaboration of Biomedical data and Telecontrol in medicine (financed by the European Social Fund), University of Verona (Italy), 1 student of MSc in Bioinformatics e Medical Biotechnology, University of Verona (Italy), 2 student of the BSc in Bioinformatics, University of Verona (Italy), 1 student of the BSc in Computer Science, University of Verona (Italy)

## Scientific Production

### Papers on International Peer-Reviewed Journals

- [IJ1-2008] Avesani M., Formaggio E., **Storti S.**, Alessandrini F., Bongiovanni L.G., Cordioli C., Beltramello A., Fiaschi A., and Manganotti P. f-MRI in epilepsy with spike and wave activity evoked by eye closure: different BOLD activation in a patient with idiopathic partial epilepsy with occipital spikes and a control group. *Neuroradiology Journal*, 21(2):159–165, 2008. ISSN: 1971-4009, doi: 10.1177/197140090802100201.
- [IJ2-2008] Formaggio E., Avesani M., **Storti S.F.**, Milanese F., Gasparini A., Acler M., Cerini R., Pozzi Mucelli R., Fiaschi A., and Manganotti P. Effect of a static magnetic field (1.5T) on brain oscillatory activities in resting state condition. *Neuroradiology Journal*, 21(5):629–635, 2008. ISSN: 1971-4009, doi: 10.1177/197140090802100504.
- [IJ3-2008] Manganotti P., Formaggio E., Gasparini A., Cerini R., Bongiovanni L.G., **Storti S.F.**, Pozzi Mucelli R., Fiaschi A., and Avesani M. Continuous EEG-fMRI in patients with partial epilepsy and focal interictal slow-wave discharges on EEG. *Magnetic Resonance Imaging*, 26(8):1089–1100, 2008. ISSN: 0730-725X, doi: 10.1016/j.mri.2008.02.023.
- [IJ4-2008] Formaggio E., **Storti S.F.**, Avesani M., Cerini R., Milanese F., Gasparini A., Acler M., Pozzi Mucelli R., Fiaschi A., and Manganotti P. EEG and fMRI coregistration to investigate the cortical oscillatory activities during finger movement. *Brain Topography*, 21(2):100–111, 2008. ISSN: 0896-0267, doi: 10.1007/s10548-008-0058-1.
- [IJ5-2009] Del Felice A., Zanoni T., Avesani M., Formaggio E., **Storti S.**, Fiaschi A., Moretto G., and Manganotti P. EEG-fMRI coregistration in non-ketotic hyperglycemic occipital seizures. *Epilepsy Research*, 85(2-3):321–324, 2009. ISSN: 0920-1211, doi: 10.1016/j.epilepsyres.2009.03.025.

- [IJ6-2009] Manganotti P., Formaggio E., **Storti S.F.**, Avesani M., Acler M., Sala F., Magon S., Zoccatelli G., Pizzini F., Alessandrini F., Fiaschi A., and Beltramello A. Steady-state activation in somatosensory cortex after changes in stimulus rate during median nerve stimulation. *Magnetic Resonance Imaging*, 27(9):1175–1186, 2009. ISSN: 1873-5894, doi: 10.1016/j.mri.2009.05.009.
- [IJ7-2010] **Storti S.F.**, Formaggio E., Beltramello A., Fiaschi A., and Manganotti P. Wavelet analysis as a tool for investigating movement-related cortical oscillations in EEG-fMRI coregistration. *Brain Topography*, 23(1):46–57, 2010. ISSN: 0896-0267, doi: 10.1007/s10548-009-0117-2.
- [IJ8-2010] Manganotti P., Acler M., Formaggio E., Avesani M., Milanese F., Baraldo A., **Storti S.F.**, Gasparini A., Cerini R., Mucelli R.P., and Fiaschi A. Changes in cerebral activity after decreased upper-limb hypertonus: An EMG-fMRI study. *Magnetic Resonance Imaging*, 28(5):646–652, 2010. ISSN: 0730-725X, doi: 10.1016/j.mri.2009.12.023.
- [IJ9-2010] Borelli P., Avesani M., Formaggio E., **Storti S.F.**, Zanoni T., Moretto G., Fiaschi A., Cerini R., and Manganotti P. EEG-fMRI as an useful tool to detect epileptic foci associated with secondary bilateral synchrony. *Seizure*, 19(9):605–608, 2010. ISSN: 1059-1311, doi: 10.1016/j.seizure.2010.09.001.
- [IJ10-2010] Formaggio E., **Storti S.F.**, Cerini R., Fiaschi A., and Manganotti P. Brain oscillatory activity during motor imagery in EEG-fMRI coregistration. *Magnetic Resonance Imaging*, 28(10):1403–1412, 2010. ISSN: 1873-5894, doi: 10.1016/j.mri.2010.06.030.
- [IJ11-2011] Piccione F., Cavinato M., Manganotti P., Formaggio E., **Storti S.F.**, Battistin L., Cagnin A., Tonin P., and Dam M. Behavioral and neurophysiological effects of repetitive transcranial magnetic stimulation on the minimally conscious state: A case study. *Neurorehabilitation and Neural Repair*, 25(1):98–102, 2011. ISSN: 1545-9683, doi: 10.1177/1545968310369802.
- [IJ12-2011] Formaggio E., **Storti S.F.**, Bertoldo A., Manganotti P., Fiaschi A., and Toffolo G.M. Integrating EEG and fMRI in epilepsy. *NeuroImage*, 54(4):2719–2731, 2011. ISSN: 1053-8119, doi: 10.1016/j.neuroimage.2010.11.038.
- [IJ13-2011] Manganotti P., Brigo F., Zoccatelli G., Alessandrini F., Pizzini F.B., Beltramello A., **Storti S.F.**, Formaggio E., Fiaschi A., and Bongiovanni L.G. Highly focal BOLD activation on functional MRI in a patient with progressive myoclonic epilepsy and diffuse giant somatosensory evoked potentials. *Epilepsy and Behavior*, 20(3):579–582, 2011. ISSN: 1525-5050, doi: 10.1016/j.yebeh.2011.01.011.
- [IJ14-2012] Manganotti\* P., **Storti S.F.\***, Formaggio E., Acler M., Zoccatelli G., Pizzini F.B., Alessandrini F., Bertoldo A., Toffolo G.M., Bovi P., Beltramello A., Moretto G., and Fiaschi A. Effect of median-nerve electrical stimulation on BOLD activity in acute ischemic stroke patients. *Clinical Neurophysiology*, 123(1):142–153, 2012. \*These authors equally contributed to this work. ISSN: 1388-2457, doi: 10.1016/j.clinph.2011.05.028.
- [IJ15-2012] Del Felice A., Formaggio E., **Storti S.F.**, Fiaschi A., and Manganotti P. The gating role of the thalamus to protect sleep: An f-MRI report. *Sleep Medicine*, 13(4):447–449, 2012. ISSN: 1389-9457, doi: 10.1016/j.sleep.2011.07.021.

- [IJ16-2012] Manganotti P., Formaggio E., **Storti S.F.**, De Massari D., Zamboni A., Bertoldo A., Fiaschi A., and Toffolo G.M. Time-frequency analysis of short-lasting modulation of EEG induced by intracortical and transcallosal paired TMS over motor areas. *Journal of Neurophysiology*, 107(9):2475–2484, 2012. ISSN: 0022-3077, doi: 10.1152/jn.00543.2011.
- [IJ17-2012] **Storti S.F.**, Formaggio E., Franchini E., Bongiovanni L.G., Cerini R., Fiaschi A., Michel C.M., and Manganotti P. A multimodal imaging approach to the evaluation of post- traumatic epilepsy. *Magnetic Resonance Materials in Physics, Biology and Medicine*, 25(5):345–360, 2012. ISSN: 0968-5243, doi: 10.1007/s10334-012-0316-9.
- [IJ18-2013] Formaggio E., **Storti S.F.**, Tramontano V., Casarin A., Bertoldo A., Fiaschi A., Talacchi A., Sala F., Toffolo G.M., and Manganotti P. Frequency and time-frequency analysis of intraoperative ECoG during awake brain stimulation. *Frontiers in Neuro-engineering*, 6(1), 2013. ISSN: 1662-6443, doi: 10.3389/fneng.2013.00001.
- [IJ19-2013] Formaggio E., **Storti S.F.**, Boscolo Galazzo I., Gandolfi M., Geroin C., Smania N., Spezia L., Waldner A., Fiaschi A., and Manganotti P. Modulation of event-related desynchronization in robot-assisted hand performance: brain oscillatory changes in active, passive and imagined movements. *Journal of NeuroEngineering and Rehabilitation*, 10(1), 2013. ISSN: 1743-0003, doi: 10.1186/1743-0003-10-24.
- [IJ20-2013] **Storti S.F.**, Formaggio E., Nordio R., Manganotti P., Fiaschi A., Bertoldo A., and Toffolo G.M. Automatic selection of resting-state networks with functional magnetic resonance imaging. *Frontiers in Neuroscience*, 7(72), 2013. ISSN: 1662-4548, doi: 10.3389/fnins.2013.00072.
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### Ph.D. Thesis

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Verona, Apr 05th, 2019

Silvia Francesca Storti