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Ilaria Boscolo Galazzo

Curriculum Vitæ

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Ilaria Boscolo Galazzo

Assistant Professor (RTDa)

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Brief Bio

Ilaria Boscolo Galazzo is currently Assistant Professor (RTDa) at the Department of Computer Science, University of Verona, Italy. She graduated cum laude in Biomedical Engineering at the University of Padova (2010) and received the Ph.D. degree in Neuroscience from the University of Verona (May 2014). She took a position as Research Associate at the Institute of Nuclear Medicine, UCL, London from 2014 to 2016 and then at the Dept. of Computer Science, University of Verona from 2016 to July 2020.

She is co-author of 31 publications on international peer-reviewed journals and of more than 60 contributions to international conferences. She is Associate Editor for IEEE Access and Review Editor for Frontiers in Neuroinformatics. Her main research activities include imaging genetics, statistical and machine learning for neuroimaging, modelling of Arterial Spin Labeling data, quantification of functional MRI and brain connectivity from non-invasive imaging recordings.

Education

Jan 2011 - Dec 2013	**PhD in Neuroscience** (XXVI cycle), University of Verona, Graduate School of Sciences Engineering and Medicine Thesis: "Arterial Spin Labeling methods for quantitative brain perfusion mapping". Supervisor: Prof. Paolo Manganotti. External Reviewers: Prof. Michael Chappell, Prof. Gabriele Miceli Doctoral degree obtained in May 2014
Oct 2007 - Jul 2010	**Master's degree in Bioengineering**, University of Padova Thesis: "Models for the PET quantitative imaging of the adenosine receptor radioligand [11C]SCH442416 in humans". Supervisor: Prof. Alessandra Bertoldo Degree final mark: 110/110 cum laude

Oct 2004 - Sep 2007	**Bachelor's degree in Biomedical Engineering**, University of Padova Thesis title: "PET applications in the diagnosis and follow-up of Alzheimer's disease and other neurodegenerative pathologies". Supervisor: Prof. Claudio Cobelli Degree final mark: 100/110

Work Experiences

Aug 2020 - today	**Assistant Professor (RTDa)**, University of Verona Research activity in the context of **EDIPO** project - *A computational solution for bringing neuroimaging genetic into translational research* (PI: Prof. Gloria Menegaz), SSD ING-INF/06.
Sep 2018 - July 2020	**Post-doc Researcher**, University of Verona Research activity: "Investigation and modeling of the structure/function link in brain connectivity". Supervisor: Prof. Gloria Menegaz. Department of Computer Science, SSD INF/01.
Sep 2017 - Aug 2018	**Post-doc Researcher**, University of Verona Research activity: "Brain connectivity underlying physiological and pathological patterns in action tremor". Supervisor: Prof. Gloria Menegaz. Department of Computer Science, SSD INF/01. Project funded by Verona Brain Research Foundation (2017).
Sep 2016 - Aug 2017	**Post-doc Researcher**, University of Verona Research activity: "Methods for the analysis of brain MRI data (perfusion and structural MRI coregistration)". Supervisor: Prof. Gloria Menegaz. Department of Computer Science, SSD INF/01. Project co-funded by the Ministry of Health (Bando Giovani Ricercatori GR-2011-02349787) and Verona Brain Research Foundation (2016).
Sep 2014 - Aug 2016	**Post-doc Research Associate**, University College London (UCL) Research activity: "Advanced models and methods for multi-parametric PET/MR imaging in epilepsy". Supervisors: Prof. Ashley Groves, Dr. Francesco Fraioli. Medical Physics Group, Institute of Nuclear Medicine.
Jan 2014 - Dec 2014	**Post-doc Research Fellow**, University of Verona and IRCCS SDN Naples Research activity: "New post-processing strategies and analyses for ASL and PET data acquired with a PET/MRI scanner in controls and patients with neurodegenerative disorders". Supervisor: Prof. Paolo Manganotti. Department of Neurological and Movement Sciences. Co.Co.Pro funded by IRCCS SDN Foundation-Institute of Diagnostic and Nuclear Development, Naples.

Sep 2010 - Dec 2010	**Research Fellow**, University of Padova Research activity: "Models and methods for the analysis of PET images ([11C]SCH442416, [18F]FDG)". Supervisor: Prof. Alessandra Bertoldo. Department of Information Engineering, SSD ING-INF/06.

Visiting

Oct 2019 - Oct 2020	**Visiting Researcher** at University College London (UCL), Division of Medicine – Institute of Nuclear Medicine. Research activity in the context of neuroimaging projects carried out in the local PET/MR system. Referees: Prof. Ashley Groves, Dr. Francesco Fraioli, Dr. Anna Barnes.
Aug 2016 - Aug 2018	**Associate Staff Status** at University College London (UCL), Division of Medicine – Institute of Nuclear Medicine. Research activity in the context of the funded UK multicentre study "NEST: NMDA-receptors in Epilepsy, Stroke and TBI". Referees: Prof. Ashley Groves, Dr. Anna Barnes.
Oct 2012 – Mar 2013	**Visiting PhD student** at the Department of Biomedical Engineering (IBME), University of Oxford, UK. Development of new methods and algorithms for the analysis of multiple time point Arterial Spin Labeling data. Supervisor: Prof. Michael Chappell.

Citation Indices

ORCID ID	0000-0002-4153-3749
Scopus ID	57218114400 (https://www.scopus.com/authid/detail.uri?authorId=57218114400)
H-index	Scopus = 12, Google Scholar = 14
Citations	Scopus = 466, Google Scholar = 639

Scientific Production Summary

31	Papers on International Peer-Reviewed Journals (9 as first author, 6 as second author, 2 as last author)
17	Proceedings on International Conferences
3	Proceedings on National Conferences
52	Abstracts in International Conferences
6	Abstracts in National Conferences

Scientific Participation in Research Projects

Projects funded by Public Organizations

2015 - 2020   **Multicentre research study – Medical Research Council (MRC)**
Title: "NEST: NMDA-receptors in Epilepsy, Stroke and TBI" (Principal Investigator: Prof. Matthias Koepp). Participating partners: UCL, Imperial College London, Cambridge University Hospitals NHS Foundation. Duration: 60 months. Role: associate member of UCL unit, collaborator for the analysis of PET/MR data from the UCL centre acquired on epilepsy patients.

2015 - 2020   **Multicentre research study – University College London**
Title: "Optimization of Magnetic Resonance Vascular Imaging for planning and follow up of Gamma Knife Radiosurgery for brain arteriovenous malformations" (Principal Investigator: Prof. Rolf Jager). Participating partners: UCL, Institute of Neurology, London, UK and Azienda Ospedaliera Universitaria Integrata of Verona, Italy. Duration: 60 months.
Role: member of AOUI Verona unit, responsible for analysing ASL data (Research Unit Principal Investigator: Dr. Francesca B. Pizzini).

2014 - 2018   **Italian research project – Ministry of Health (Bando Giovani Ricercatori 2011-2012)**
Title: "A non-invasive, multimodal approach to restore functional networks and cognition in Alzheimer's disease and frontotemporal dementia" (Principal Investigator: Dr. Michela Pievani). Participating partners: IRCCS Fratebenefratelli Brescia and Azienda Ospedaliera Universitaria Integrata of Verona, Italy. Duration: 48 months.
Role: member of the operative unit in Verona (UO3) responsible for the collection of MRI data, analysis of ASL and multimodal integration with other biomarkers (Research Unit Principal Investigator: Dr. Francesca B. Pizzini).

2015 - 2016   **PRIN 2010-2011 – Ministry of Education, Universities and Research**
Title: "Impact of physical activity on healthy aging: multidisciplinary analysis of mechanisms and outcomes" (Principal Investigator: Prof. Angela Di Baldassarre). Participating partners: D'Annunzio University of Chieti–Pescara, University of Perugia, University of Verona, University of Padua, University of Rome. Duration: 36 months.
Role: co-coordinator for MRI data collection and analysis in Verona (Research Unit Principal Investigator: Prof. Federico Schena).

2015 - 2016   **Joint Project 2014 – University of Verona, EB Neuro S.p.A.**
Title: "BRAINCO, Investigation of structural and functional brain connectivity from multimodal data - JP 2014" (Principal Investigator: Prof. Gloria Menegaz, Scientific Collaborator: Prof. Paolo Manganotti). Partner: EB Neuro S.p.A. (Florence, Italy). Duration: 24 months.
Role: member of the unit in charge for the analysis of EEG and MRI data, in terms of brain connectivity and their multimodal integration.

2014 - 2016	**Innovative Medicines Initiative PharmaCog Project – European Community's FP7/2007-2013**

Title: "Prediction of cognitive properties of new drug candidates for neurodegenerative diseases in early clinical development" (Academic Coordinator: Prof. Regis Bordet). Complete list of partecipating sites at https://www.imi.europa.eu/projects-results/project-factsheets/pharma-cog. Duration: 72 months.

Role: co-coordinator of the multicentre sub-study on "ASL-MRI in PharmaCOG" (Scientific Coordinator: Prof. Giovanni B. Frisoni).

2012-2013	**Joint Project 2011 – University of Verona, ATES MEDICA Device s.r.l.**

Title: "Highly reliable image-guided multimodal neuronavigation for motor cortex stimulation - JP 2011" (Principal Investigator: Prof. Paolo Manganotti, Scientific Collaborator: Prof. Gloria Menegaz). Partner: ATES MEDICA Device s.r.l. (Verona, Italy). Duration: 24 months.

Role: member of the unit in charge for the analysis of EEG and MRI data.

Projects funded by Private Organizations

Aug 2020 - today	**Research Project - Fondazione Cariverona**

Title: "A computational solution for bringing neuroimaging genetic into translational research (EDIPO)" (Principal Investigator: Prof. Gloria Menegaz). Duration: 36 months.

Role: Responsible of the scientific management of WP1 (*MRI derived phenotypes*) and WP3 (*Data modeling for imaging genetics*), integration of project results and dissemination.

2017	**Research project – Verona Brain Research Foundation**

Title: "Brain connectivity underlying physiological and pathological patterns in action tremor" (Principal Investigators: Prof. Gloria Menegaz, Dr. Francesca B. Pizzini). Duration: 12 months.

Role: responsible for the analysis of fMRI data (BOLD and ASL, task and resting-state).

2016	**Research project – Verona Brain Research Foundation**

Title: "Mapping functional connectivity patterns in neurological and neurosurgical diseases with Arterial Spin Labeling and Blood Oxygenation Level Dependent MRI" (Principal Investigators: Prof. Gloria Menegaz, Dr. Francesca B. Pizzini). Duration: 12 months.

Role: responsible for the analysis of fMRI data (BOLD and ASL in resting-state).

Results of Technology Transfer

2016 - today **Intellectual Property with University of Oxford**, titled "Reduced blurring in 3D-MRI" (ISIS project 12409). Description of the technology: method, know-how and software for post-processing to reduce the effects of blurring introduced in magnetic resonance imaging when acquired using a 3D readout. Authors: Prof. Michael Chappell, Prof. Mark Woolrich, **Dr. Ilaria Boscolo Galazzo**, Dr. Enrico De Vita.

2012 - 2013 **Development of an highly reliable multimodal neuronavigation system**, based on multiple images for guiding the stimulation of the motor cortex. This was achieved during the research project Joint Project 2011 - University of Verona and ATES MEDICA Device s.r.l. Principal Investigator: Prof. Paolo Manganotti, Scientific Collaborator: Prof. Gloria Menegaz. Partner: ATES MEDICA Device s.r.l. (Verona, Italy).

Participation to Research Groups (National and International) and Collaborations

2018 - today **Member of the European Network "MAGNIMS (Magnetic Resonance Imaging in MS)"**
The European MAGNIMS research network has collectively made a major contribution to defining the role of MRI in diagnosis and monitoring treatments in MS, thanks to the joint work of an increasing number of academics. Research project carried out within the MAGNIMS framework: *"Non-invasive perfusion patterns in multiple sclerosis phenotypes"*. Coordinators: Prof. M. Calabrese, **Dr. I. Boscolo Galazzo**. This is a multicentre and multidisciplinary study (Verona - leading site, Basel, Bochum, Graz, London and Amsterdam) aiming at acquiring perfusion data through ASL MRI on different MS types and healthy controls. The main goal is to verify whether different flow levels underline the pathology and if this technique, which is challenging from the harmonisation and analysis point of views, can be useful as novel biomarker in MS.

2015 - today   **Member of the Research Group "Neuroimaging Lab"**
Coordinator: Prof. Gloria Menegaz, Department of Computer Science, University of Verona.
The research group is characterised by several national and international collaborations which led to multiple scientific publications. The lab activity is centered on neuroimaging, medical imaging and computational vision, with a particular focus on brain connectivity from multi-modal data (diffusion MRI, functional MRI, ASL, EEG). This has the twofold challenge of characterizing brain networks and to assess their integrity in pathological conditions.
Selected collaborations to highlight: *Dept. of Neurosciences, Biomedicine and Movement Sciences, University of Verona (IT)* - Prof. Massimiliano Calabrese, Prof. Michele Tinazzi; *Dept. of Molecolar Medicine, Sapienza University of Rome (IT)* - Prof. F. Babiloni; *Movement Laboratory, Don Carlo Gnocchi Foundation, Rome (IT)* - Dr. P. Caliandro; *Institute of Nuclear Medicine, UCL, London (UK)* - Prof. A. Groves, Prof. F. Fraioli, Dr. A. Barnes; *Inria Sophia Antipolis, France (FR)* - Prof. R. Derich; *Dept. of Computer Engineering and Industrial Automation, University of Campinas, Brazil (BR)* - Prof. L. Rittner.

2014 - 2021   **Member of the Research Group at the Institute of Nuclear Medicine**
Coordinators: Prof. Ashley Groves and Prof. Brian Hutton, Institute of Nuclear Medicine, University College London.
The research group is characterised by several national and international collaborations focused on both clinical and methodological aspects. During the years, I have been personally involved in the activities of the Medical Physics Group which undertakes basic research related to nuclear medicine and multimodality imaging (as image denosing, kinetic modelling, MRI data integration). In addition, I was involved with more clinically oriented research projects carried out on the local PET/MR system, aiming at broadening the knowledge of specific human pathologies, such as epilepsy and dementia.
Selected collaborations to highlight: *UCL Institute of Neurology, Queen Square* - Prof. X. Golay, Prof. M. Koepp; *Dept. of Biomedical Engineering, King's College London* - Dr. E. De Vita; *Nuclear Medicine Institute, Università Cattolica del Sacro Cuore, Rome (IT)* - Prof. M.L. Calcagni, Dr. M.V. Mattoli; *Department of Bioengineering, University of Pennsylvania (USA)* - Prof. D. Bassett.

2013 - 2016   **Collaboration between University of Verona and Niguarda Hospital (Milan)**
This collaboration has been carried out in the context of the following project: "Neurophysiological study of the diagnostic potential of high-density EEG and perfusion MRI in patients with drug-resistant focal epilepsy in the presurgical workup". Coordinators: Prof. P. Manganotti, Department of Neurological and Movement Sciences, University of Verona; Dr. G. Lo Russo, Niguarda Hospital, Milan; Dr. A. Beltramello, University Hospital Verona (AOUI). Role: Member of the research unit led by Prof. P. Manganotti in charge for the high-density EEG analysis, perfusion quantification and multimodal integration.

2011 - 2015   **Member of the European COST Action BM1103**

This COST Action, entitled "Arterial spin labeling Initiative in Dementia (AID)", brought together a network of over 200 scientists and clinicians, working alongside industry partners, to develop new biomarkers in dementia using the novel ASL MRI technique. The main goal was to provide the entire community with a reliable and comparable way to measure perfusion with this MRI technique, and to standardise its acquisition, analysis and comparison. Chair: Prof. X. Golay.

Role: Active member of the Verona unit within the European network.

2011 - 2014   **Member of the Research Laboratory "Clinical Neurophysiology and Functional Neuroimaging Unit"**

Coordinator: Prof. Paolo Manganotti, Department of Neurological and Movement Sciences, University of Verona.

The research group was characterised by several national and international collaborations which led to multiple scientific publications. The main activity was centered on functional neuroimaging and electrophysiology, with a particular focus on methodological aspects for the data analyses and on the multimodal data integration. These studies were performed in both healthy controls and patients (mainly epilepsy and stroke).

Selected collaborations to highlight: *Dept. of Information Engineering, University of Padua (IT)* - Prof. G.M. Toffolo, Prof. A. Bertoldo; *Epilepsy Surgery Center, Ospedale Cà Granda Niguarda, Milano (IT)* - Dr. R. Mai, Dr. G. Lo Russo; *Dept. of Neurophysiology, IRCCS San Camillo, Venice (IT)* - Dr. F. Piccione; *Quantitative Biomedical Inference Group, University of Oxford (UK)* - Prof. M.A. Chappell; *Functional Brain Mapping Laboratory, Université de Genève (CH)* – Prof. C.M. Michel.

International Event Organization

Nov 2019   **2019 IEEE Winter School on Imaging Genetics**. Sponsored by the PhD School in Natural Sciences and Engineering and Dept. of Computer Science at University of Verona, IEEE Signal Processing Society, ESU Verona, InfOmics and IOR. Nov 26-29, 2019, Department of Computer Science, University of Verona, Italy. Member of the Organizing Commitee. http://igs.di.univr.it/.

Sept 2019   **2019 Winter School on Brain Connectomics - third edition**. Sponsored by the PhD School in Natural Sciences and Engineering and Dept. of Computer Science at University of Verona, MICCAI. Sep 23-27, 2019, Department of Computer Science, University of Verona, Italy. Member of the Organizing Commitee. http://brainconnectomics.org.

Apr 2019   **2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI)**. Apr 8-11, 2019, Hilton Mulino Stucky, Venice, Italy. Member of the Organizing Commitee, in charge for Student Liaisons https://biomedicalimaging.org/2019/.

Oct 2017	**2017 IEEE SPS Winter School of Brain Connectomics - second edition**. Sponsored by the PhD School in Natural Sciences and Engineering and Dept. of Computer Science at University of Verona, IEEE Signal Processing Society, MICCAI, Verona Brain Research Foundation. Oct 09-13, 2017, Department of Computer Science, University of Verona, Italy. Member of the Local Committee. http://brainconnectomics.org/archive/2017/index.html
Sept 2016	**2016 Summer School on Brain Connectomics - first edition**. Sponsored by the PhD School in Natural Sciences and Engineering and Dept. of Computer Science at 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
Mar 2012	**International Workshop on Multimodal Brain Imaging in Epilepsy**. Mar 23, 2012, Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Italy. Member of the Local Organizing Committee.

Oral Communications

Invited talks - National and International Conferences

3-5 Oct 2019	"Arterial Spin Labeling: Perfusion". *ESMRMB 2019 - European Society for Magnetic Resonance in Medicine and Biology, 36th Annual Scientific Meeting*, Rotterdam, NL.
3-4 Nov 2017	"Arterial Spin Labeling: acquisition and postprocessing". *IV Congresso Nazionale di Neuroradiologia Funzionale*, Parma, Italy.
17 Jun 2016	"Arterial Spin Labelling MRI in normal subjects and neurological disorders". *International Research Meeting: Traslational Neurophysiology and Neuroimaging in Neurological disorders*, Department of Medical, Surgical and Health Sciences, Clinical Neurology Unit, Cattinara University Hospital, Trieste, Italy.

Invited talks - National and International Schools

15-18 Apr 2020	"Imaging di perfusione con ASL: principi – sequenze – post-processing". *National Course, Second Edition: Imaging Avanzato in Neuroradiologia*, Naples, Italy (*postponed due to the pandemic*).
26-29 Nov 2019	"What can we learn from functional MRI data?". *2019 IEEE Winter School on Imaging Genetics*, Department of Computer Science, University of Verona, Italy.
23-27 Sep 2019	"Decoding brain activity and connectivity from functional neuroimaging". *2019 Winter School on Brain Connectomics - third edition*, Department of Computer Science, University of Verona, Italy.

23-27 Sep 2019	"Resting-state functional MRI: from pre-processing to functional brain connectivity". Hands-on session at the *2019 Winter School on Brain Connectomics - third edition*, Department of Computer Science, University of Verona, Italy.
3-5 Dec 2018	"Perfusione: Principi e Sequenze". *National Course, First Edition: Imaging Avanzato in Neuroradiologia*, Naples, Italy.
21 Mar 2017	"Advanced neuroimaging techniques in epilepsy". *ECM Course: Updates in MRI (Dementia, MS, Epilepsy)*, Department of Diagnostics and Pathology, University Hospital Verona, Italy.

Oral - International Conferences

16 Sep 2018	"Can diffusion MRI reveal stroke-induced microstructural changes in GM?". *Stroke Workshop on Imaging and Treatment Challenges (SWITCH) held in conjunction with MICCAI 2018*, Granada, Spain.
9 May 2016	"Mapping resting state networks in epilepsy with Arterial Spin Labeling connectivity analysis". *ISMRM 2016 - International Society for Magnetic Resonance in Medicie, 24th Annual Scientific Meeting*, Singapore.
4 Oct 2013	"Ascribing confidence to perfusion estimates in multiple time point Arterial Spin Labeling data". *ESMRMB 2013 - European Society for Magnetic Resonance in Medicine and Biology, 30th Annual Scientific Meeting*, Toulose, France.
4 Oct 2013	"Evaluation of an improved framework for minimizing blurring artifacts in 3D-GRASE Arterial Spin Labeling data". *ESMRMB 2013 - European Society for Magnetic Resonance in Medicine and Biology, 30th Annual Scientific Meeting*, Toulose, France.
4 Oct 2013	"Quantitative assessment of drug-resistant focal epilepsy using a noninvasive multimodal imaging approach: combination of ESI, ASL and PET". *ESMRMB 2013 - European Society for Magnetic Resonance in Medicine and Biology, 30th Annual Scientific Meeting*, Toulose, France.

Invited Seminars

4 Jun 2018	"A multi-view perspective of neuroimaging - Functional magnetic resonance imaging (fMRI)", Department of Biotechnology, University of Verona, Italy.
12 Jan 2018	"Functional Neuroimaging and Brain Connectivity", Negrar Hospital, Verona, Italy.
11 Dec 2015	"Arterial Spin Labeling Methods for quantitative perfusion mapping in epilepsy", IRCCS C. Mondino Pavia, Italy.
09 Feb 2015	"Arterial Spin Labeling methods for perfusion mapping", University Hospital Verona, Italy.
29 Oct 2014	"Arterial Spin Labeling methods for quantitative brain perfusion mapping", University College London Hospital, London, UK.
18 Oct 2013	"Arterial Spin Labeling: principi, tecnica ed applicazioni cliniche", IRCSS SDN Foundation, Naples, Italy.

Poster Presentations

International Conferences

13-16 Apr 2021	"Reliability of functional connectivity measures in resting-state test-retest fMRI data". *IEEE 18th International Symposium on Biomedical Imaging (ISBI)*, Nice, France (virtual due to pandemic).
13-16 Apr 2021	"Multivariate Data Analysis Suggests the Link between Brain Microstructure and Cognitive Impairment in Multiple Sclerosis". *IEEE 18th International Symposium on Biomedical Imaging (ISBI)*, Nice, France (virtual due to pandemic).
2-6 Sep 2019	"Perfusion-based Brain Connectivity: PASL vs pCASL." *27th European Signal Processing Conference (EUSIPCO)*, A Coruna, Spain.
8-11 Apr 2019	"Can single shell diffusion mri detect synaptic plasticity in mice?" *16th IEEE International Symposium on Biomedical Imaging (ISBI)*, Venice, Italy.
16-20 Sep 2018	"Vector graphs can reveal functional polymorphism of brain regions". *2nd International Workshop on Connectomics in NeuroImaging (CNI) held in conjunction with MICCAI 2018*, Granada, Spain.
11-16 Jun 2018	"Probing functional connectivity and network modelling from perfusion neuroimaging with Arterial Spin Labeling". *ISMRM 2018 - 26th Annual Scientific Meeting*, Paris, France.
11-16 Jun 2018	"Using Social Network Analysis to enhance the understanding of Brain Connectivity". *ISMRM 2018 - 26th Annual Scientific Meeting*, Paris, France.

26-30 Jun 2016	"Exploring the Brain Connectivity of Epileptic Resting State Networks using Arterial Spin Labeling". *22nd Annual Meeting of the Organization for Human Brain Mapping*, Geneva, Switzerland.
3-5 Oct 2013	"Assessment of the labeling duration impact on perfusion estimates from a multiple time point pCASL acquisition". *ESMRMB 2013 - 30th Annual Scientific Meeting*, Toulose, France.
4-6 Oct 2012	"Assessment of Arterial Spin Labeling for functional localization of active and passive motor tasks". *ESMRMB 2012 - 29th Annual Scientific Meeting*, Lisbon, Portugal.
4-6 Oct 2012	"Single post-labeling versus multi post-labeling pCASL: evaluation of differences in cerebral blood flow estimation". *ESMRMB 2012 - 29th Annual Scientific Meeting*, Lisbon, Portugal.
6-8 Oct 2011	"Usefulness of Arterial Spin Labeling and high density electroencephalography in the evaluation of complex partial seizures: a case study". *ESMRMB 2011 - 28th Annual Scientific Meeting*, Leipzig, Germany.

National Conferences

25-27 Jun 2018	"A comparison of pre-processing pipelines for the analysis of resting-state data in Epilepsy". *Sixth National Congress of Bioengineering (GNB)*, Milan, Italy.
25-27 Jun 2018	"Diffusion MRI sensitivity to contralateral GM modulations after stroke". *Sixth National Congress of Bioengineering (GNB)*, Milan, Italy.
10-11 May 2018	"The Challenge of Separating BOLD fMRI Signals from Noise-related Fluctuations in Resting-state: a Comparison of Different Cleaning Pipelines". *ISMRM Italian Chapter 2018*, Padova, Italy.

Editorial Responsibilities for International Peer-Reviewed Journals

Dec 2019 - today	**Associate Editor** for IEEE Access (IF 2020: 3.367).
Aug 2019 - today	**Review Editor** for Frontiers in Neuroinformatics (IF 2020: 4.081).
2013 - 2014	**Guest Associate Editor** for Frontiers in Neurology - Epilepsy (IF 2020: 4.003). Co-editor of the Research Topic "The role of neuroimaging in the pre-surgical evaluation of the epileptic patient".

Referee Activities

International Peer-Reviewed Journals

- Nature Scientific Reports (from 2016)

- BioMed Research International (from 2016)

- Epileptic Disorders (from 2016)

- Neurorehabilitation and Neural Repair (from 2018)

- EJNMMI Research (from 2018)

- Aging and Disease (from 2019)

- BioMedical Engineering OnLine (from 2019)

- IEEE Transactions on on Neural Systems and Rehabilitation Engineering (from 2019)

- IEEE Access (from 2019)

- Brain Topography (from 2020)

- Human Brain Mapping (from 2021)

International Conferences

- International Symposium on Biomedical Imaging, ISBI (from 2016)

- Internation Workshop on Pattern Recognition in Neuroimaging, PRNI (from 2016)

- Organization for Human Brain Mapping, OHBM (from 2017)

- International Society for Magnetic Resonance in Medicine, ISMRM (from 2018)

- International Conference on Medical Image Computing & Computer Assisted Intervantion, MICCAI (from 2020)

Awards and Grants

Sep 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.
Title: "Vector graphs could reveal functional polymorphism of brain regions".

Apr 2017 Winner of a **Mobility Grant** from the University of Verona (University Internationalization programme CooperInt – 2017). Declined for family reasons.

Oct 2012 **2nd place award** at the European competition entitled "EU-COST: ASL Acquisition Challenge" aimed at the acquisition of the best ASL image with the highest spatial resolution. Endorsed by the European COST Action BM1103.

Oct 2012 Winner of a **Short Term Scientific Mission (STSM)** Grant from the European COST Action BM1103 (Arterial spin labeling Initiative in Dementia). Host: Prof. M.A. Chappell, University of Oxford, UK.

Teaching Activities

Frontal Teaching Activities

2021-2022 **Department of Computer Science, University of Verona**
Statistical Models for Data Science, S.S.D. MAT/06, Master's degree in Data Science.
Theory and Laboratory: 24 hours.

2021-2022 **Department of Computer Science, University of Verona**
Laboratory of Signal and Image Processing, S.S.D. INF/01, Bachelor's degree in Computer Science.
Laboratory: 24 hours.

2020-2021 **Department of Computer Science, University of Verona**
Laboratory of Signal and Image Processing, S.S.D. INF/01, Bachelor's degree in Computer Science.
Laboratory: 48 hours.

2019 **Doctoral School on Natural and Engineering Sciences, Department of Computer Science, University of Verona**
Course on Statistics. Course lecturer, PhD in Computer Science and PhD in Nanoscience and Advanced Technologies.
Theory and Laboratory: 20 hours in total.

2019 - 2020 **Department of Computer Science, University of Verona**
Signal and Image Processing for bioinformatics, S.S.D. INF/01 (Co-teacher, Coordinator: Prof. G. Menegaz, Bachelor's degree in Bioinformatics).
Laboratory: 6 hours. Analysis of functional MRI data.

2017 - 2018 **Department of Computer Science, University of Verona**
Biomedical Image Processing, S.S.D. INF/01 (Co-teacher, Coordinator: Prof. A. Daducci, Master's degree in Medical Bioinformatics).
Theory: 4 hours. Laboratory: 6 hours. EEG and Functional Magnetic Resonance Imaging.

Support Teaching Activities

2019 - 2020 **Department of Computer Science, University of Verona**
Signal and image processing for bioinformatics, S.S.D. INF/01 (Coordinator: Prof. G. Menegaz, Bachelor's degree in Bioinformatics).
Theory: 2 hours. Pratictical exercises on signal processing.

2015 - 2016	**Department of Biotechnology, University of Verona** *Bioimaging and Biomedical Data Processing*, S.S.D. INF/01 (Coordinator: Prof. G. Menegaz, Master's degree in Bioinformatics and Medical Biotechnology). Theory: 2 hours. Laboratory: 3 hours. Basic Principles of Magnetic Resonance Imaging.
2012 - 2013	**School of Medicine and Surgery, University of Verona** *Clinical and organizational progress in rehabilitation context*, S.S.D. MED/36 (Coordinator: Prof. P. Manganotti, Master's degree in Rehabilitation Science in Healthcare Professions). Theory: 1 hour. Structural and Functional Neuroimaging.
2011 - 2012	**Department of Biotechnology, University of Verona** *Neurology*, S.S.D. MED/36 (Coordinator: Prof. P. Manganotti, Master's degree in Bioinformatics and Medical Biotechnology). Theory: 2 hours. Arterial Spin Labelling.

Advisory Activities

PhD Programmes

June 2020 - today	"Brain age estimation using genotypes and MRI phenotypes". Candidate: Ahmed Salih, PhD in Computer Science, University of Verona, Italy. Primary Supervisor: Prof. G. Menegaz. Co-Supervisors: *Dr. I. Boscolo Galazzo*, Prof. P. Radeva (University of Barcelona).
2016 - 2020	"Multi-Parametric Imaging Using Hybrid PET/MRI to Investigate Neurological Disorders". Candidate: Bianca De Blasi, PhD in Medical Physics and Bioengineering, UCL, London, UK. Primary Supervisors: Dr. A. Barnes (non-clinical), Prof. M. Koepp (clinical). Other Supervisors: *Dr. I. Boscolo Galazzo (non-clinical)*, Prof. M. Tindsell (clinical).

Master's degrees

2020 - 2021	"Predicting upper limb functional recovery in sub-acute stroke patients by using statistical and machine learning methods: an observational cohort study in the neurorehabilitation setting". Candidate: Rudy Gasparin Pavan, Master's degree in Rehabilitation Science in Healthcare Professions, School of Medicine and Surgery, University of Verona. Supervisor: Prof. M.L. Gandolfi. Co-supervisors: Dr. Nicola Vale, *Dr. I. Boscolo Galazzo*.

Bachelor's degrees

2019 - 2020 "Analisi della rete cerebrale in dati fMRI test-retest in condizione di resting state". Candidate: Francesco Zumerle, Bachelor's degree in Computer Science, Dept. of Computer Science, University of Verona. Supervisor: Prof. S.F. Storti. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2019 - 2020 "Analisi di affidabilità delle misure di connettività funzionale ed effettiva in dati test-retest fMRI". Candidate: Edoardo Paolini, Bachelor's degree in Computer Science, Dept. of Computer Science, University of Verona. Supervisor: Prof. S.F. Storti. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2019 - 2020 "Analisi di affidabilità della connettomica cerebrale: confronto tra metriche di connettività funzionale ed effettiva". Candidate: Walter Endrizzi, Bachelor's degree in Computer Science, Dept. of Computer Science, University of Verona. Supervisor: Prof. S.F. Storti. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2019 - 2020 "Analisi morfometrica e microstrutturale da dati MRI per lo studio di soggetti sani e pazienti con tremore essenziale". Candidate: Kuate Aristide, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Supervisor: Prof. G. Menegaz. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2018 - 2019 "Studio dei patterns di connettività funzionale a riposo e loro link con connettività strutturale in soggetti sani e patologici". Candidate: Margrate Anyanwu, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Supervisor: Prof. G. Menegaz. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2018 - 2019 "Modelling of white matter bundles from diffusion-weighted images in healthy and pathological subjects". Candidate: Eva Viesi, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Supervisor: Prof. G. Menegaz. Co-supervisor: *Dr. I. Boscolo Galazzo.*

2016 - 2017 "Analisi delle componenti indipendenti per l'estrapolazione dei network cerebrali da segnali di risonanza funzionale in soggetti normali ed epilettici". Candidate: Carlotta Fabris, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Supervisor: Prof. G. Menegaz. Co-supervisors: *Dr. I. Boscolo Galazzo*, Dr. S.F. Storti.

2015 - 2016 "Pattern recognition models for brain decoding using resting and task fMRI". Candidate: Giulia Luchesa, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Supervisor: Prof. G. Menegaz. Co-supervisors: *Dr. I. Boscolo Galazzo*, Dr. S.F. Storti.

Stage and Internships

2020 - 2021   "Intelligenza artificiale (AI) e nuovi approcci nell'ambito dell'explainable AI ". Student: Dario Serez, Master's degree in Computer Science and Engineering, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2020 - 2021   "Metodi per la quantificazione della perfusione cerebrale in soggetti sani e pazienti con tremore essenziale". Student: Sofia Vangelista, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2020 - 2021   "Confronto di dati ASL per la stima della connettività cerebrale". Student: Veronica Papini, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2019 - 2020   "Pipeline automatica per il preprocessing e l'elaborazione di dati fMRI". Student: Francesco Zumerle, Bachelor's degree in Computer Science, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Dr. S.F. Storti.

2019 - 2020   "Metodi per lo studio della connettività funzionale ed effettiva a partire da dati fMRI". Student: Walter Endrizzi, Bachelor's degree in Computer Science, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Dr. S.F. Storti.

2019 - 2020   "Analisi morfometrica e microstrutturale da dati MRI per lo studio di soggetti sani e pazienti con tremore essenziale". Student: Aristide Kuate, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2018 - 2019   "Metodi di denoising avanzati per il preprocessing di dati fMRI in soggetti sani e patologici". Student: Margrate Anyanwu, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2018 - 2019   "Tecniche di trattografia per lo studio dei fasci di materia bianca a partire da sequenze dMRI avanzate". Student: Eva Viesi, Bachelor's degree in Bioinformatics, Dept. of Computer Science, University of Verona.
Company Tutor: *Dr. I. Boscolo Galazzo*. Academic Tutor: Prof. G. Menegaz.

2018 - 2019   "Probing the viability of diffusion MRI based microstructural indices in MS". Student: Muge Akinci, Master's Degree in Cognitive Science, CIMeC, University of Trento.
Stage Tutors in Verona: Prof. G. Menegaz, Dr. L. Brusini, *Dr. I. Boscolo Galazzo*.

2013 - 2014   "Temporal analysis of the fMRI signal using continous wavelet transform". Student: Roberto Pedrazzoli, Master's degree in Mathematics, Dept. of Mathematics, University of Trento.
Stage Tutors in Verona: Prof. P. Manganotti, *Dr. I. Boscolo Galazzo*, Dr. E. Formaggio.

Technical and Computer Skills

MRI   Siemens Allegra 3T, Philips Achieva 1.5T and 3T with their relative software

EEG   Standard EEG systems, video-EEG, high-density EEG, EEG-MRI compatible systems (Electrical Geodesics Inc., Eugene, OR, USA; EBNeuro, Colognola ai Colli, VR; Micromed, Mogliano Veneto, TV)

Programming   Java, Matlab, Python

Scientific   LaTeX
Writing

Neuroimaging   FSL, SPM, Freesurfer, ITKSnap, MRICro, ANTs, AFNI
Software

Other   SPSS, EEGlab, LabVIEW, SAAM II
Software

Scientific Production

Papers on International Peer-Reviewed Journals

[J31 - 2022]   **Boscolo Galazzo I**, Cruciani F, Lorenzi L, Salih A, Radeva P, Storti SF, Menegaz G. Explainable Artificial Intelligence for MRI aging brainprints: grounds and challenges. *IEEE Signal Processing Magazine*, 2022 in press.

[J30 - 2022]   Pini L, Pizzini FB, **Boscolo Galazzo I**, Ferrari C, Galluzzi S, Cotelli M, Gobbi E, Cattaneo A, Cotelli MS, Geroldi C, Zanetti O, Corbetta M, van den Heuvel M, Frisoni GB, Manenti R, Pievani M. Brain network modulation in Alzheimer's and frontotemporal dementia with transcranial electrical stimulation. *Neurobiology of Aging*; 111: 24-34, 2022. doi: 10.1016/j.neurobiolaging.2021.11.005.

[J29 - 2022]   **Boscolo Galazzo I**, Brusini L, Akinci M, Cruciani F, Pitteri M, Ziccardi S, Bajrami A, Castellaro M, Salih AMA, Pizzini FB, Jovicich J, Calabrese M, Menegaz G. Unraveling the MRI-Based Microstructural Signatures Behind Primary Progressive and Relapsing-Remitting Multiple Sclerosis Phenotypes. *Journal of Magnetic Resonance Imaging*; 55(1): 154-163, 2022. doi: 10.1002/jmri.27806.

[J28 - 2021] Salih A, **Boscolo Galazzo I**, Raisi-Estabragh Z, Rauseo E, Gkontra P, Petersen S, Lekadir K, Altmann A, Radeva P, Menegaz G. Brain age estimation at tract group level and its association with daily life measures, cardiac risk factors and genetic variants. *Scientific Reports*; 11(1):20563, 2021. doi: 10.1038/s41598-021-99153-8.

[J27 - 2021] Cruciani F, Brusini L, Zucchelli M, Retuci Pinheiro G, Setti F, **Boscolo Galazzo I**, Deriche R, Rittner L, Calabrese M, Menegaz G. Interpretable deep learning as a means for decrypting disease signature in multiple sclerosis. *Journal of Neural Engineering*; 18(4), 2021. doi: 10.1088/1741-2552/ac0f4b.

[J26 - 2021] Quattrini G, Marizzoni M, Pizzini FB, **Boscolo Galazzo I**, Aiello M, Didic M, Soricelli A, Albani D, Romano M, Blin O, Forloni G, Golay X, Jovicich J, Nathan PJ, Richardson JC, Salvatore M, Frisoni GB, Pievani M; PharmaCog Consortium. Convergent and Discriminant Validity of Default Mode Network and Limbic Network Perfusion in Amnestic Mild Cognitive Impairment Patients. *Journal of Alzheimer's Disease*; 82(4):1797-1808, 2021. doi: 10.3233/JAD-210531.

[J25 - 2021] Pitteri M, **Boscolo Galazzo I**, Brusini L, Cruciani F, Dapor C, Marastoni D, Menegaz G, Calabrese M. Microstructural MRI Correlates of Cognitive Impairment in Multiple Sclerosis: The Role of Deep Gray Matter. *Diagnostics*; 11(6):1103, 2021. doi: 10.3390/diagnostics11061103.

[J24 - 2020] **Boscolo Galazzo I**, Magrinelli F, Pizzini FB, Storti SF, Agosta F, Filippi M, Marotta A, Mansueto G, Menegaz G, Tinazzi M. Voxel-based morphometry and task functional magnetic resonance imaging in essential tremor: evidence for a disrupted brain network. *Scientific Reports*; 10(1):15061. doi: 10.1038/s41598-020-69514-w.

[J23 - 2020] De Blasi B, Caciagli L, Storti SF, Galovic M, Koepp M, Menegaz G, Barnes A, **Boscolo Galazzo I**. Noise removal in resting-state and task fMRI: functional connectivity and activation maps. *Journal of Neural Engineering*; 17(4):046040, 2020. doi: 10.1088/1741-2552/aba5cc.

[J22 - 2020] Pizzini FB, Sarno A, **Boscolo Galazzo I**, Fiorino F, Aragno AMR, Ciceri E, Ghimenton C, Mansueto G. Usefulness of High Resolution T2-Weighted Images in the Evaluation and Surveillance of Vestibular Schwannomas? Is Gadolinium Needed? *Otology and Neurotology*; 41(1):E103-E110, 2020. doi: 10.1097/MAO.0000000000002436.

[J21 - 2019] Menegaz G, Tomazzoli C, Cristani M, **Boscolo Galazzo I**[*], Storti SF[*]. Characterising Functional Brain Connectivity as Social Network: the Transtopic Centrality index. *Fundamenta Informaticae*; 172(2):169-186, 2020. doi: 10.3233/FI-2020-1899.

[J20 - 2019] **Boscolo Galazzo I**, Storti SF, Barnes A, De Blasi B, De Vita E, Koepp M, Duncan JS, Groves A, Pizzini FB, Menegaz G, Fraioli F. Arterial spin labeling reveals disrupted brain networks and functional connectivity in drug-resistant temporal epilepsy. *Frontiers in Neuroinformatics*; 12:101, 2019. doi: 10.3389/fninf.2018.00101.

[J19 - 2019] Pedrinolla A, Venturelli M, Tamburin S, Fonte C, Stabile AM, **Boscolo Galazzo I**, Ghinassi B, Venneri MA, Pizzini FB, Muti E, Smania N, Baldassarre AD, Naro F, Rende M, Schena F. Non-Aβ-Dependent Factors Associated with Global Cognitive and Physical Function in Alzheimer's Disease: A Pilot Multivariate Analysis. *Journal of Clinical Medicine*; 8:E224, 2019. doi: 10.3390/jcm8020224.

[J18 - 2018] De Blasi B, Barnes A, **Boscolo Galazzo I**, Hua CH, Shulkin B, Koepp M, Tisdall M. Age-Specific 18F-FDG Image Processing Pipelines and Analysis Are Essential for Individual Mapping of Seizure Foci in Paediatric Patients with Intractable Epilepsy. *Journal of Nuclear Medicine*; 59(10):1590-1596, 2018. doi: 10.2967/jnumed.117.203950.

[J17 - 2018] Gandolfi M, Formaggio E, Geroin C, Storti SF, **Boscolo Galazzo I,** Bortolami M, Saltuari L, Picelli A, Waldner A, Manganotti P, Smania N. Quantification of Upper Limb Motor Recovery and EEG Power Changes after Robot-Assisted Bilateral Arm Training in Chronic Stroke Patients: A Prospective Pilot Study. *Neural Plasticity*; 8105480, 2018. doi: 10.1155/2018/8105480.

[J16 - 2018] Venturelli M, Pedrinolla A, **Boscolo Galazzo I,** Fonte C, Smania N, Tamburin S, Muti E, Crispoltoni L, Stabile A, Pistilli A, Rende M, Pizzini FB, Schena F. Impact of Nitric Oxide Bioavailability on the Progressive Cerebral and Peripheral Circulatory Impairments During Aging and Alzheimer's Disease. *Frontiers in Physiology*; 9:169, 2018. doi: 10.3389/fphys.2018.00169.

[J15 - 2018] **Boscolo Galazzo I**, Brusini L, Obertino S, Zucchelli M, Granziera C, Menegaz G. On the Viability of Diffusion MRI-Based Microstructural Biomarkers in Ischemic Stroke. *Frontiers in Neuroscience*; 12:92, 2018. doi: 10.3389/fnins.2018.00092.

[J14 - 2018] Storti SF, **Boscolo Galazzo I**, Pizzini FB, Menegaz G. Dual-echo ASL based assessment of motor networks: a feasibility study. *Journal of Neural Engineering*; 15(2): 026018, 2018. doi: 10.1088/1741-2552/aa8b27.

[J13 - 2017] Storti SF, **Boscolo Galazzo I**, Montemezzi S, Menegaz G, Pizzini FB. Dual-echo ASL contributes to decrypting the link between functional connectivity and cerebral blow flow. *Human Brain Mapping*; 38(12): 5831-5844, 2017. doi: 10.1002/hbm.23804.

[J12 - 2017] Pievani M, Pini L, Ferrari C, Pizzini FB, **Boscolo Galazzo I**, Cobelli C, Cotelli M, Manenti R, Frisoni GB. Coordinate-based meta-analysis of the default mode and salience network for target identification in non-invasive brain stimulation of AD and bvFTD networks. *Journal of Alzheimer's Disease*; 57(3): 825–843, 2017. doi: 10.3233/JAD-161105.

[J11 - 2017] Storti SF, **Boscolo Galazzo I**, Khan S, Manganotti P, Menegaz G. Exploring the Epileptic Brain Network using Time-Variant Effective Connectivity and Graph Theory. *IEEE Journal of Biomedical and Health Informatics*; 21(5):1411-1421, 2017. doi: 10.1109/JBHI.2016.2607802.

[J10 - 2016] Brusini L, Obertino S, **Boscolo Galazzo I**, Zucchelli M, Krueger G, Granziera C, Menegaz G. Ensemble average propagator-based detection of microstructural alterations after stroke. *International Journal of Computer Assisted Radiology and Surgery*; 11(9):1585-1597, 2016. doi: 10.1007/s11548-016-1442-z

[J9 - 2016] **Boscolo Galazzo I**, Mattoli MV, Pizzini FB, De Vita E, Barnes A, Duncan JS, Jäger HR, Golay X, Bomanji JB, Koepp M, Groves AM, Fraioli F. Cerebral metabolism and perfusion in MR-negative individuals with refractory focal epilepsy assessed by simultaneous acquisition of (18)F-FDG PET and arterial spin labeling. *Neuroimage: Clinical*; 11: 648-657, 2016. doi: 10.1016/j.nicl.2016.04.00.

[J8 - 2015] **Boscolo Galazzo I**, Storti SF, Del Felice A, Pizzini FB, Arcaro C, Formaggio E, Mai R, Chappell M, Beltramello A, Manganotti P. Patient-specific detection of cerebral blood flow alterations as assessed by arterial spin labeling in drug-resistant epileptic patients. *PLoS One*; 10(5): e0123975, 2015. doi: 10.1371/journal.pone.0123975.

[J7 - 2015] Formaggio E, Storti SF, **Boscolo Galazzo I**, Gandolfi ML, Geroin C, Smania N, Fiaschi A, Manganotti P. Time frequency modulation of ERD and EEG coherence in robot assisted hand performance. *Brain Topography*; 28(2): 352-363, 2015. doi: 10.1007/s10548-014-0372-8.

[J6 - 2015] Gandolfi ML, Formaggio E, Geroin C, Storti SF, **Boscolo Galazzo I,** Waldner A, Manganotti P, Smania N. Electroencephalographic changes of brain oscillatory activity after upper limb somatic sensation training in a patient with somatosensory deficit after stroke. *Clinical EEG and Neuroscience*; 46(4): 347-52, 2015. 10.1177/1550059414536895.

[J5- 2015] Storti SF, Del Felice A, Formaggio E, **Boscolo Galazzo I**, Bongiovanni LB, Cerini R, Fiaschi A, Manganotti P. Spatial and temporal EEG-fMRI changes during pre-ictal and postictal Phases in a patient with posttraumatic epilepsy. *Clinical EEG and Neuroscience*; 46(3): 247-52, 2015. doi: 10.1177/1550059414523960

[J4 - 2014]   **Boscolo Galazzo I**, Storti SF, Formaggio E, Pizzini FB, Fiaschi A, Beltramello A, Bertoldo A, Manganotti P. Investigation of brain hemodynamic changes induced by active and passive movements: a combined Arterial Spin Labeling - BOLD fMRI study. *Journal of Magnetic Resonance Imaging*, 40(4): 937-948, 2014. doi: 10.1002/jmri.24432.

[J3 - 2014]   Formaggio E, Storti SF, **Boscolo Galazzo I**, Bongiovanni LB, Cerini R, Fiaschi A, Manganotti P. Reproducibility of EEG-fMRI results in a patient with fixation-off sensitivity. *Clinical EEG and Neuroscience*, 45(3): 212-217, 2014. 10.1177/1550059413497946

[J2- 2014]   Storti SF, **Boscolo Galazzo I,** Del Felice A, Pizzini FB, Arcaro C, Formaggio E, Mai R, Manganotti P. Combining ESI, ASL and PET for quantitative assessment of drug-resistant focal epilepsy. *Neuroimage*, 102 Pt 1: 49-59, 2014. doi: 10.1016/j.neuroimage.2013.06.028.

[J1 - 2013]   Formaggio E, Storti SF, **Boscolo Galazzo I**, Gandolfi ML, Geroin C, Spezia L, Waldner A, Fiaschi A, Smania N, 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: 24, 2013. doi: 10.1186/1743-0003-10-24.

Proceedings on International Conferences

[IP17 - 2021]   Elshatoury H, Cruciani F, Zumerle F, Storti SF, Altmann A, Lorenzi M, Anbarjafari G, Menegaz G, **Boscolo Galazzo I**. Disentangling the association between genetics and functional connectivity in Mild Cognitive Impairment. Proceedings of 2021 IEEE EMBS International Conference on Biomedical and Health Informatics, Virtual conference, 2021.

[IP16 - 2021]   Salih A, **Boscolo Galazzo I**, Estabragh ZR, Petersen S, Gkontra P, Lekadir K, Menegaz G, Radeva P. A new scheme for the assessment of the robustness of explainable methods applied to brain age estimation. Proceedings - IEEE Symposium on Computer-Based Medical Systems, 34th IEEE International Symposium on Computer-Based Medical Systems, CBMS, 492 - 497, 2021.

[IP15 - 2021]   **Boscolo Galazzo I**, Zumerle F, Paolini E, Endrizzi W, Menegaz G, Storti SF. Test-Retest Reliability of Graph Metrics in Functional Brain Network. *Proceedings of 10th International IEEE EMBS Conference on Neural Engineering (NER)*, Virtual Meeting, May 4-6, 2021.

[IP14 - 2021]   Brusini L, Cruciani F, **Boscolo Galazzo I**, Pitteri M, Storti SF, Calabrese M, Lorenzi M, Menegaz G. Multivariate Data Analysis Suggests the Link between Brain Microstructure and Cognitive Impairment in Multiple Sclerosis. *Proceedings of IEEE 18th International Symposium on Biomedical Imaging (ISBI)*, Nice, France, April 13-16, 2021 (virtual due to pandemic).

[IP13 - 2021] **Boscolo Galazzo I**, Paolini E, Endrizzi W, Zumerle F, Menegaz G, Storti SF. Reliability of functional connectivity measures in resting-state test-retest fMRI data. *Proceedings of IEEE 18th International Symposium on Biomedical Imaging (ISBI)*, Nice, France, April 13-16, 2021 (virtual due to pandemic).

[IP12 - 2021] Cruciani F, Brusini L, Zucchelli M, Pinhero GR, Setti F, **Boscolo Galazzo I**, Deriche R, Rittner L, Calabrese M, Menegaz G. Explainable 3D-CNN for Multiple Sclerosis Patients Stratification.*Proceedings of Pattern Recognition. ICPR International Workshops and Challenges 2021*, Lecture Notes in Computer Science, vol 12663, pp.103-114, Virtual Event, January 10–15, 2021. http://dx.doi.org/10.1007/978-3-030-68796-08

[IP11 - 2020] Brusini L, **Boscolo Galazzo I**, Akinci M, Cruciani F, Pitteri M, Ziccardi S, Bajrami A, Castellaro M, Salih A, Pizzini FB, Jovicich J, Calabrese M, Menegaz G. Microstructural Modulations in the Hippocampus Allow to Characterizing Relapsing-Remitting Versus Primary Progressive Multiple Sclerosis. *Proceedings of the 6th International Workshop, BrainLes 2020 held in conjunction with MICCAI 2020*, Lecture Notes in Computer Science, vol 12658, pp.70-79, Lima, Peru, October 4, 2020. https://doi.org/10.1007/978-3-030-72084-17

[IP10 - 2020] Salih A, **Boscolo Galazzo I**, Jaggi A, Estabragh ZR, Petersen S, Lekadir K, Radeva P, Menegaz G. Multi-modal brain age estimation: a comparative study confirms the importance of microstructure. *Proocedings of Computational Diffusion MRI - MICCAI Workshop*, Lima, Peru, October 8, 2020.

[IP9 - 2019] De Blasi B, Barnes A, Storti SF, Koepp M, Menegaz G, De Vita E, **Boscolo Galazzo I**. Perfusion-based Brain Connectivity: PASL vs pCASL. *Proceedings of the 27th European Signal Processing Conference (EUSIPCO)*, pp. 1-4, A Coruna, Spain, September 2-6, 2019. doi: 10.23919/EUSIPCO.2019.8903183.

[IP8 - 2019] Brusini L, Cruciani F, **Boscolo Galazzo I**, Galbusera A, Borin M, Paolone G, Diana M, Buffelli M, Gozzi A, Menegaz G. Can single shell diffusion mri detect synaptic plasticity in mice? *Proceedings of the 2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI)*, pp. 182-185, Venice, Italy, Apr 8-11, 2019. doi: 10.1109/ISBI.2019.8759467.

[IP7 - 2018] Brusini L, **Boscolo Galazzo I**, Zucchelli M, Granziera C, Menegaz G. Can diffusion MRI reveal stroke-induced microstructural changes in GM? *Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics*, Vol. 11383 LNCS, pp. 464-471. 4th International MICCAI Brainlesion Workshop, BrainLes 2018, Granada, Spain, Sep 16, 2018. doi: 10.1007/978-3-030-11723-847.

[IP6 - 2018] Storti SF, **Boscolo Galazzo I**, Iacovelli C, Caliandro P, Menegaz G. Connectivity Modulations induced by Reaching and Grasping Movements. *Proceedings of the 26th European Signal Processing Conference (EUSIPCO)*, pp. 1392-1396, Rome, Italy, Sep 3-7, 2018. doi: 10.23919/EUSIPCO.2018.8553355.

[IP5 - 2018]   De Blasi B, **Boscolo Galazzo I**, Pasetto L, Storti SF, Koepp M, Barnes A, Menegaz G. Pipeline comparison for the pre-processing of resting-state data in Epilepsy. *Proceedings of the 26th European Signal Processing Conference (EU-SIPCO)*, pp. 1137-1141, Rome, Italy, Sep 3-7, 2018. doi: 10.23919/EU-SIPCO.2018.8553119.

[IP4 - 2017]   Tomazzoli C, Storti SF, **Boscolo Galazzo I**, Cristani M, Menegaz G. The Brain is a Social Network. *Proceedings of the 3rd International Workshop on Knowledge Discovery on the Web, KDWEB 2017*, Vol. 1959, pp. 1-14, Cagliari, Italy, Sep 11-13, 2017.

[IP3 - 2017]   Obertino S, Jiménez Hernàndez S, **Boscolo Galazzo I,** Pizzini FB, Zucchelli M, Menegaz G. Exploiting machine learning principles for assessing the fingerprinting potential of connectivity features. *Proceedings of the Computational Diffusion MRI - MICCAI 2017 Workshop*, Quebec, Canada, Sep 4, 2017. doi: 10.1007/978-3-319-73839-014.

[IP2 - 2016]   Obertino S, Brusini L, **Boscolo Galazzo I**, Zucchelli M, Granziera C, Cristani M, Menegaz G. Shore-based biomarkers allow patients versus controls classification in stroke. *Proceedings of the 2016 IEEE 13th International Symposium on Biomedical Imaging (ISBI)*, pp. 1097-1100, Prague, Czech Republic, Apr 13-16, 2016. doi: 10.1109/ISBI.2016.7493457.

[IP1 - 2015]   Brusini L, Obertino S, Zucchelli M, **Boscolo Galazzo I,** Krueger G, Granziera C, Menegaz G. Assessment of Mean Apparent Propagator-Based Indices as Biomarkers of Axonal Remodeling after Stroke. *Lecture Notes in Computer Science*, Vol. 9349, pp. 199-206. MICCAI 2015, Munich, Germany, Oct 5-9, 2015. doi: 10.1007/978-3-319-24553-925.

Proceedings on National Conferences

[PN3 - 2018]   De Blasi B, **Boscolo Galazzo I**, Pasetto L, Storti SF, Koepp M, Barnes A, Menegaz G. A comparison of pre-processing pipelines for the analysis of resting-state data in Epilepsy. *Proceedings of the Sixth National Congress of Bioengineering (GNB)*, Milan, Italy, Jun 25-27, 2018.

[PN2 - 2018]   Brusini L, **Boscolo Galazzo I**, Zucchelli M, Granziera C, Menegaz G. Diffusion MRI sensitivity to contralateral GM modulations after stroke. *Proceedings of the Sixth National Congress of Bioengineering (GNB)*, Milan, Italy, Jun 25-27, 2018.

[PN1 - 2018]   Brusini L, Cruciani F, **Boscolo Galazzo I**, Galbusera A, Borin M, Diana G, Buffelli M, Gozzi A, Menegaz G. Assessing the effects of synaptic plasticity using structural MRI in the mouse. *Proceedings of the Sixth National Congress of Bioengineering (GNB)*, Milan, Italy, Jun 25-27, 2018.

Abstracts on International Conferences

[IA52 - 2021]   Pini L, de Lange S, Pizzini FB, **Boscolo Galazzo I**, Manenti R, Van Den Heuvel M, Pievani M. Divergent brain connectivity patterns in relation to cognition in alzheimer's disease and frontotemporal dementia. *Abstract of the 2021 AAIC Conference*, Amsterdam, July 26-30, 2021.

[IA51 - 2020]   Quattrini G, Marizzoni M, Pizzini FB, **Boscolo Galazzo I**, Didid M, Soricelli A, Nathan PJ, Richardson JC, Blin O, Forloni G, Albani D, Jovich J, Salvatore M, Frisoni GB, Pievani M. Brain perfusion in Alzheimer's disease networks and association with pathophysiological features in mild cognitive impairment patients. *Abstract of the 2020 AAIC Neuroscience Next Congress*, Virtual Event, July 27-30, 2020.

[IA50 - 2019]   Villabona AR, Pizzini FB, **Boscolo Galazzo I**, Sokolska M, Plebani M, Golay X, Kitchen N, Jager HR. Quantification of brain AVM circulation time using ASL based MR Angiography vs DSA and its relation to AVM size and nidal blood perfusion. *Abstract of the 2019 WFNS Special World Congress*, Sept 9-12, 2019, Bejing, China.

[IA49 - 2019]   Brusini L, Cruciani F, Akinci M, **Boscolo Galazzo I**, Pizzini FB, Jovich J, Storti SF, Calabrese M, Menegaz G. Can DTI and 3D-SHORE Based Indices Differentiate RRMS from PMS Patients? *Abstract of the 25th Annual Meeting of the Organization for Human Brain Mapping, n. T222*, Jun 9-13, 2019, Rome, Italy.

[IA48 - 2019]   De Blasi B, Caciagli L, Storti SF, Koepp M, Menegaz G, Barnes A, **Boscolo Galazzo I**. How are BOLD Measures and Connectivity Affected by Noise Removal in Resting-state and Task fMRI? *Abstract of the 25th Annual Meeting of the Organization for Human Brain Mapping, n. W345*, Jun 9-13, 2019, Rome, Italy.

[IA47 - 2019]   Pievani M, Pini L, Ferrari C, **Boscolo Galazzo I**, Cobelli C, Cotelli M, Frisoni GB, Manenti R, Pizzini FB. How are BOLD Measures and Connectivity Affected by Noise Removal in Resting-state and Task fMRI? *Alzheimer's and Dementia, Volume 15 – Issue 7 , p.576-577*, AAIC 2019, Jul 14-17, 2019, Los Angeles, USA.

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Doctoral Thesis

[DT - 2014] Boscolo Galazzo I. Arterial Spin Labeling methods for quantitative brain perfusion mapping. University of Verona (2014). Supervisor: Prof. Paolo Manganotti. http://hdl.handle.net/11562/711962.

La sottoscritta Boscolo Galazzo Ilaria, BSCLRI85R71C638Y, nata a Chioggia (VE) il 31/10/1985 a conoscenza che ai sensi dell'art. 26 della Legge 15/68 le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali e consapevole delle sanzioni penali richiamate dall'art. 76 del D.P.R 28/12/00 n. 445 in caso di dichiarazioni mendaci e della decadenza dei benefici eventualmente conseguenti al provvedimento emanato sulla base di dichiarazioni non veritiere, di cui all'art. 75 del D.P.R. del 28/12/00 n. 445, ai sensi e per gli effetti degli art. 46 e 47 del citato D.P.R. 445/2000, sotto la propria responsabilità dichiara che quanto riportato nel presente CV corrisponde al vero.

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Verona, January 26, 2022   Ilaria Boscolo Galazzo