PERSONAL INFORMATION

Denis Peruzzo

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Sex Male | Date of birth 17/05/1980 | Nationality Italian

PERSONAL STATEMENT

I am an engineer with a deep passion for scientific discovery and a fascination with the complexity and capabilities of the human brain. Currently, I lead the Neuroimaging Laboratory at the IRCCS Eugenio Medea, a research institute specializing in rehabilitation and developmental diseases in pediatric patients.

My primary research focus is the analysis of magnetic resonance imaging (MRI) and the extraction of quantitative parameters to better characterize the clinical, cognitive, and neurological profiles of patients. Throughout my career, I have worked with a range of MRI techniques, including structural, perfusion, diffusion, and functional imaging. I have applied these methods to study perfusion alterations in patients with arteriosclerosis and in cortical lesions in multiple sclerosis. Additionally, I have utilized diffusion imaging to investigate the relationship between neural organization and psychiatric disorders, as well as to characterize genetically induced malformations of the central nervous system. I have also employed functional MRI to examine the reading circuit and reading-related disorders.

Working in a hospital-based research and healthcare center, my research is particularly focused on developing and applying new analytical methodologies to advance clinical practice and improve the etiological understanding of the different diseases.

WORK EXPERIENCE

28/12/2015 - Current

Bioengineer / MRI scientist
Associazione La Nostra Famiglia / Scientific Institute IRCCS "Eugenio Medea"
Bosisio Parini (LC), Italy

▪ Head of the "Neuroimaging Lab" of CeSNE (Center for Neuroimaging Studies of the Developmental Age)

21/09/2020 - Current

Adjunct Professor
University of Milan
Milano (MI), Italy

▪ Instructor of the module "Medical Imaging and radiotherapy" in the course "Health care services sciences – Bosisio Parini section"

17/03/2015 - 31/12/2015

Bioengineer / MRI scientist
Associazione La Nostra Famiglia / Scientific Institute IRCCS "Eugenio Medea"
Bosisio Parini (LC), Italy

▪ Collaborator in the research project "Correlati anatomo-funzionali dei disturbi del neurosviluppo e dei disturbi del movimento di natura organica e funzionale: studio mediante Risonanza Magnetica a 3 Tesla su popolazione pediatrica e adulta" ("Anatomo-functional interrelationship between neurodevelopmental disorders and organic and functional movement disorders: study of 3T Magnetic Resonance images on pediatric and adult populations") and in the research project "Riconoscimento di pattern RM specifici mediante analisi DTI multi-compartimentale in patologie ipomielinizzanti ereditarie dell'infanzia"

("Identification of specific MRI patterns using multi-compartmental DTI analysis in pediatric hereditary hypomyelinating pathologies")

02/09/2013 – 28/02/2015   Bioengineer / MRI scientist

Associazione La Nostra Famiglia / Scientific Institute IRCCS "Eugenio Medea"
Bosisio Parini (LC), Italy

▪ Collaborator in the research project "Protocollo di acquisizione di dati morfologici quantitativi e funzioni cerebrali con tomografo di risonanza magnetica a 3 Tesla (3T) in popolazione pediatrica con patologia neurologica dell'età evolutiva associata a ritardo mentale e/o disturbo del comportamento" ("Quantitative analysis of morphologic and functional brain data acquired with a 3T Magnetic Resonance Scanner on a pediatric population with developmental neurological pathology associated with mental retardation and/or behavior disorder")

01/11/2012 – 31/10/2013   Post-Doctoral research scientist

Department of Computer Science - University of Verona
Verona (VR), Italy

▪ Research activity as part of the research project "Advanced pattern recognition techniques for the integration of multi-source data"

05/04/2012 – 05/08/2012   Research collaborator

Department of Information Engineering – University of Padova
Padova (PD), Italy

▪ Research activities within the European project "AP@Home"

01/02/2010 – 31/01/2012   Post-Doctoral research scientist

Department of Information Engineering – University of Padova
Padova (PD), Italy

▪ Research activity within the project "Stochastic methods for the generation of parametric images with positron emission tomography"

01/06/2011 – 31/12/2011   Post-Doctoral research fellow

Department of Molecular Imaging, Department of Psychiatry - Columbia University
New York (NY), United States

▪ Development of advanced methods for the analysis of Diffusion Tensor Imaging (DTI) data acquired with a Magnetic Resonance scanner

01/09/2010 – 31/05/2011   Post-Doctoral research scientist

Department of Molecular Imaging, Department of Psychiatry - Columbia University
New York (NY), United States

▪ Development of advanced methods for the analysis of Diffusion Tensor Imaging (DTI) data acquired with a Magnetic Resonance scanner

01/02/2008 – 31/01/2010   Post-Doctoral research scientist

Department of Information Engineering – University of Padova
Padova (PD), Italy

▪ Research activity within the project "Modelling and quantitative imaging of the serotonin system with positron emission tomography"

01/01/2006 – 31/12/2008   PhD student

Department of Information Engineering – University of Padova
Padova (PD), Italy

▪ Research activity in the field of Magnetic Resonance Image analysis

01/11/2006 – 30/11/2006   Research collaborator

Department of Information Engineering – University of Padova
Padova (PD), Italy

▪ Software development and testing for the cluster analysis of PET images with PK21145 tracer

18/02/2005 – 18/05/2005	**Research collaborator**
	Department of Information Engineering – University of Padova
	Padova (PD), Italy
	▪ Development of methods for the selection of the arterial input function for the analysis of dynamic magnetic resonance images acquired with the use of contrast agents

TEACHING EXPERIENCE

A.Y. 2020 – 2025	**Course holder**
	University of Milano
	Milano (MI), Italy
	▪ Instructor of the module "Medical Imaging and radiotherapy" in the course "Health care services sciences – Bosisio Parini section" within the bachelor degree program "Professional Education (Degree class: L/SNT2 - Health professions for rehabilitation)"
A.Y. 2007 – 2009	**Laboratory Assistant**
	Department of Information Engineering - University of Padova
	Padova (PD), Italy
	▪ Laboratory assistant in the course "Neuroengineering" within the master degree program "Bioengineering"
A.Y. 2006 – 2009	**Laboratory Assistant**
	Department of Information Engineering - University of Padova
	Padova (PD), Italy
	▪ Laboratory assistant in the course "Modeling and control of biological systems" within the master degree program "Bioengineering"
A.Y. 2006 – 2008	**Tutor**
	Department of Information Engineering - University of Padova
	Padova (PD), Italy
	▪ Tutor in the study group of the course "Mathematics - A" within the bachelor degree program "Electronic engineering", "Computer engineering" and "Telecommunication engineering"

EDUCATION AND TRAINING

12/03/2009	**Doctor of Philosophy (PhD)**
	Department of Information Engineering – University of Padova
	Padova (PD), Italy
	▪ Thesis title: Quantification of cerebral hemodynamic from Dynamic Susceptibility Contrast - Magnetic Resonance Imaging technique
21/12/2004	**Master degree on Electronic Engineer**
	Department of Information Engineering – University of Padova
	Padova (PD), Italy
	▪ Thesis title: Arterial input function selection methods from magnetic resonance imaging
14/07/1999	**High school diploma on scientific lyceum**
	Liceo Ginnasio Statale G.B. Brocchi
	Bassano del Grappa (VI), Italy
	▪ Thesis title: Quantification of cerebral hemodynamic from Dynamic Susceptibility Contrast - Magnetic Resonance Imaging technique

RESEARCH PROJECTS

Title	Towards personalized medicine: development of analysis methods for biomedical images focused on the individual patient

Role	Principal Investigator
Funding	Italian Ministry of Health ("Ricerca corrente 2024")
Title	Italian network of excellence for advanced diagnosis (INNOVA)
Role	Unit coordinator
Funding	Italian Ministry of Health ("PNC-E3-2022-23683266")
Title	Enhancement of functional MRI signal through multi-echo EPI sequences: optimization of the sequence setup and of the analysis pipeline
Role	Principal Investigator
Funding	Italian government funds ("5 x mille")
Title	Artificial intelligence methods in neuroimaging: implementation and validation of algorithms for the analysis of clinical MR datasets
Role	Principal Investigator
Funding	Italian Ministry of Health ("Ricerca corrente 2020-2023")
Title	Machine Learning methods for the integrated analysis of multi-domain data: pilot study on developmental dyslexia
Role	Principal Investigator
Funding	Italian government funds ("5 x mille")
Title	"Rete di Neuroimaging avanzato-fase IV: laboratorio virtuale di neuroimmagini verso una medicina personalizzata/di precisione" (Advanced Neuroimaging Network - Phase IV: neuroimaging virtual laboratory towards personalized/precision medicine)
Role	Unit coordinator
Funding	Italian Ministry of Health ("Ricerca Corrente Reti IRCCS 2018-2021")
Title	BIaNCA IDEA: Biomarker Imaging and New Challenging Approaches to assess white matter disorders in developmental age
Role	Unit coordinator
Funding	Italian Ministry of Health ("Ricerca Corrente Reti 2019-2021")

AWARDS AND HONOURS

Honours and awards
- One of the top-performing algorithms in the segmentation and biometry task at the "Fetal Tissue Annotation and Segmentation Challenge (FeTA) - 2024" (06/10/2024), satellite event at the 27th Intrventional Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI) (6-10 October 2024 - Marrakesh/Morocco)
- "Best abstract award" Neuroimaging track at III Annual Meeting of the Italian Neuroscience and Rehabilitation Network (Rete Italiana delle Neuroscienze e della Riabilitazione, RIN) – (30/11/2023-01/12/2023 - Rome)
- Recipient of a Titan Xp GPU for deep machine learning analyses within the NVIDIA GPU Grant program (2018)
- Runner-up at the 3rd Cav. Lav. Fulvio Bracco Award "Innovation in Diagnostic Imaging", Bracco Foundation (17/10/ 2016)
- Winner of ASL Acquisition Challenge, organized from COST Action BM1103 (05/10/2012 - Amsterdam)

Invited talks
- "Characterization of Deep and Periventricular Brain Lesions in Steinert's Syndrome Using Magnetic Resonance Imaging" at the "Myotonic dystrophy type 1 (DM1): updates on natural history, fatigue, and brain involvement with a focus on pediatric forms" a Listening Point - Science dissemination conference organized by the "Myotonic Diseases Foundation ETS" (24 January 2025 - IRCCS Eugenio Medea)
- "MRI derived biomarkers for fetal brain development" at the "Depressione 2024: aggiornamento su diagnosi e trattamento nel ciclo di vita. Dalla gravidanza all'età adulta" (25-27 September 2024 - University of Milan)
- "Beyond reading in Developmental dyslexia through functional MRI" at the "Developmental trajectories in Psychopathology: what really matters" closing congress of "Ricerca Finalizzata REMIND - REal Matters IN Developmental psychopathology. A 15 years follow-up study of risk and resilience factors and outcomes from childhood to adulthood." (23-24 November 2023 - University of Milan)
- "Machine Learning Methods for MRI" at the AIRMM IX annual meeting (ISMRM Italian Chapter), (10-11 May 2018 - Padova)

▪ "DTI basis and tractography" at the NYSPI Department of Columbia University (NY) - 2010

Meeting organization

▪ *Local Chair* at the "AIRMM XVI annual meeting" (ISMRM Italian Chapter) (24-26 March 2025 - Lecco)
▪ *Faculty member, Session organizer and moderator* at the "AIRMM XV annual meeting" (ISMRM Italian Chapter) (15-17 April 2024 - Padova)
▪ *Session moderator* at the "ISMRM & ISMRT Annual meeting and exhibition" (03-08 June 2023 - Toronto), session "Radiomics, Quantitative MRI & Miscellaneous Data Acquisition & Analysis"

Reviewer activity

▪ Reviewer volunteer at the MICCAI 2025 -The 28th International Conference on Medical Image Computing and Computer Assisted Intervention.
▪ Reviewer volunteer at the "ISMRM & ISMRT Annual meeting and exhibition" (2023 and 2024)
▪ Project reviewer for ANR (the French National Funding Agency) - 2024

PUBLICATION SUMMARY

H-index	14 (source: scopus.com on 05/03/2025)
Citations	725 (source: scopus.com on 05/03/2025)
Scopus ID	36523700400
ORCID ID	0000-0002-9480-379X

peer-reviewed papers 60

books
Author of chapter "Magnetic Resonance Imaging" in "Basic Neuroimaging: A guide to the methods and their applications"
Editors: Dr. Peter S. Bloomfield, Dr. Sabrina Brigadoi, Dr. Gaia Rizzo, and Dr. Mattia Veronese.
CreateSpace Independent Publishing Platform; 1st edition (01/10/2017)
ISBN-10: 1978133618. ISBN-13: 978-1978133617

Chapter: Nivedita Agarwal, Letizia Losa, Denis Peruzzo, John D Port, Graeme M Bydder "MASDIR (Multiplied, Added, Subtracted, and/or Divided Inversion Recovery) Pulse Sequences and Synergistic Contrast MRI (scMRI)" in "MRI of Short and Ultrashort-T_2 Tissues: Making the Invisible Visible
Editors: Jiang Du, Graeme M. Bydder
Springer International Publishing; 1st edition (20/02/2024)
ISBN: 978-3-031-35196-9

PEER-REVIEWD PUBBLICATIONS

Title Alterations in neural activation in the ventral frontoparietal network during complex magnocellular stimuli in developmental dyslexia associated with READ1 deletion.
Authors Mascheretti S, Arrigoni F, Toraldo A, Giubergia A, Andreola C, Villa M, Lampis V, Giorda R, Villa M, Peruzzo D
Journal Behavioral and Brain Functions. 2024 Jun 26;20(1):16.
doi: 10.1186/s12993-024-00241-2

Title A framework for optimizing the acquisition protocol multishell diffusion-weighted imaging for multimodel assessment
Authors Ciceri T, De Luca A, Agarwal N, Arrigoni F, Peruzzo D
Journal NMR in Biomedicine. 2024;e5141
doi:10.1002/nbm.5141

Title Classification of Muscular Dystrophies from MR Images Improves Using the Swin Transformer Deep Learning Model
Authors Mastropietro A, Casali N, Taccogna MG, D'Angelo MG, Rizzo G, Peruzzo D
Journal Bioengineering (Basel). 2024 Jun 7;11(6):580.
doi: 10.3390/bioengineering11060580.

Title Fetal brain MRI atlases and datasets: A review.

Authors Ciceri T, Casartelli L, Montano F, Conte S, Squarcina L, Bertoldo A, Agarwal N, Brambilla P, Peruzzo D

Journal Neuroimage. 2024 Apr 15;292:120603.
doi: 10.1016/j.neuroimage.2024.120603

Title Enhancing T1 signal of normal-appearing white matter with divided subtracted inversion recovery: A pilot study in mild traumatic brain injury

Authors Losa L, Peruzzo D, Galbiati S, Locatelli F, Agarwal N

Journal NMR Biomedicine. 2024 May 17; 37(10):e5175
doi: 10.1002/nbm.5175

Title Differential diagnosis of neurodegenerative dementias with the explainable MRI based machine learning algorithm MUQUBIA

Authors De Francesco S, Crema C, Archetti D, et al.

Journal Scientific Report. 2023 Oct 13;13(1):17355
doi: 10.1038/s41598-023-43706-6
Erratum in: Sci Rep. 2024 Jan 18;14(1):1603. doi: 10.1038/s41598-024-51435-7

Title Parasagittal dural space is linked to cerebrospinal fluid in young children with autism spectrum disorder

Authors Agarwal N, Frigerio G, Losa L, Ciceri T, Mani E, Lanteri F, Molteni M, Carare R, Peruzzo D

Journal figshare Software
doi: 10.21203/rs.3.rs-3514149/v1

Title Onset of Chiari type 1 malformation: insights from a small series of intrauterine MR imaging cases

Authors Palumbo G, Arrigoni F, Peruzzo D, et al.

Journal Neuroradiology. 2023 Sep;65(9):1387-1394.
doi: 10.1007/s00234-023-03183-0

Title Correction to: Geometric Reliability of Super-Resolution Reconstructed Images from Clinical Fetal MRI in the Second Trimester

Authors Ciceri T, Squarcina L, Pigoni A, Ferro A, Montano F, Bertoldo A, Persico N, Boito S, Triulzi FM, Conte G, Brambilla P, Peruzzo D.

Journal Neuroinformatics. 2023 Oct;21(4):669
doi: 10.1007/s12021-023-09642-6
Erratum for: Neuroinformatics. 2023 Jul;21(3):549-563.

Title Review on deep learning fetal brain segmentation from magnetic resonance images

Authors Ciceri T, Squarcina L, Giubergia A, Bertoldo A, Brambilla P, Peruzzo D

Journal Artificial Intelligence in Medicine 2023; 143: 102608
Doi: 10.1016/j.artmed.2023.102608

Title Context expectation influences the gait pattern biomechanics

Authors Ciceri T, Malerba G, Gatti A, Diella E, Peruzzo D, Biffi E, Casartelli L.

Journal Scientific Reports 2023 Apr 6;13(1):5644.
doi: 10.1038/s41598-023-32665-7

Title Congenital isolated unilateral third nerve palsy in children: the diagnostic contribution of high-resolution MR imaging

Authors Arrigoni F, Rombetto L, Redaelli D, Mancarella G, Polenghi F, Salati R, Romaniello R, Peruzzo D, Bianchi PE, Piozzi E, Mazza M, Magli A

Journal Neuroradiology. 2023 Apr;65(4):865-870
doi: 10.1007/s00234-022-03106-5

Title Geometric Reliability of Super-Resolution Reconstructed Images from Clinical Fetal MRI in the Second Trimester

Authors Ciceri T, Squarcina L, Pigoni A, Ferro A, Montano F, Bertoldo A, Persico N, Boito S, Triulzi FM, Conte G, Brambilla P, Peruzzo D.

Journal Neuroinformatics. 2023 Jul;21(3):549-563.
doi: 10.1007/s12021-023-09635-5

Title Progressive Spinal Cord Degeneration in Friedreich's Ataxia: Results from ENIGMA-Ataxia

Authors Rezende TJR, Adanyeguh IM, Arrigoni F, Bender B, Cendes F, Corben LA, Deistung A, Delatycki M, Dogan I, Egan GF, Göricke SL, Georgiou-Karistianis N, Henry PG, Hutter D,

Journal	Jahanshad N, Joers JM, Lenglet C, Lindig T, Martinez ARM, Martinuzzi A, Paparella G, Peruzzo D, Reetz K, Romanzetti S, Schöls L, Schulz JB, Synofzik M, Thomopoulos SI, Thompson PM, Timmann D, Harding IH, França MC Jr. Movement Disorders 2023 Jan;38(1):45-56. doi: 10.1002/mds.29261
Title	DBB-A distorted brain benchmark for automatic tissue segmentation in paediatric patients
Authors	Amorosino G, Peruzzo D, Redaelli D, Olivetti E, Arrigoni F, Avesani P.
Journal	NeuroImage 2022, 260: 119486 doi.org: 10.1016/j.neuroimage.2022.119486.
Title	Functional MRI Studies in Friedreich's Ataxia: A Systematic Review
Authors	Vavla M., Arrigoni F., Peruzzo D., et al.
Journal	Frontiers in Neurology 2022, 12:802496
Title	Brain structure and degeneration staging in Friedreich ataxia: magnetic resonance imaging volumetrics from the ENIGMA-ataxia working group
Authors	Harding I., Chopra S., …, Peruzzo D., et al.
Journal	Annals of Neurology. 2021, 90 (4):570-583
Title	The paternal brain in action: A review of human fathers' fMRI brain responses to child-related stimuli
Authors	Provenzi L., Lindstedt J., De Coen K., Gasparini L., Peruzzo D., Grumi S., Arrigoni F., Ahlqvist-Björkroth S.
Journal	Brain Sciences, 2021, 11 (6): 816
Title	Neuroimaging and DNA Methylation: An Innovative Approach to Study the Effects of Early Life Stress on Developmental Plasticity
Authors	Mariani Wigley I.L.C., Mascheroni E., Peruzzo D., Giorda R., Bonichini S., Montirosso R.
Journal	Frontiers in Psychology, 2021, 12: 672786
Title	Retrospective study of late radiation-induced damages after focal radiotherapy for childhood brain tumors
Authors	Cavatorta C., Meroni S., Montin E., Oprandi M.C., Pecori E., Lecchi M., Diletto B., Alessandro O., Peruzzo D., Biassoni V., Schiavello E., Bologna M., Massimino M., Poggi G., Mainardi L., Arrigoni F., Spreafico F., Verderio P., Pignoli E., Gandola L.
Journal	PLos ONE, 2021, 16 (2): e0247748
Title	Selecting the most relevant brain regions to classify children with developmental dyslexia and typical readers by using complex magnocellular stimuli and multiple kernel learning
Authors	Mascheretti* S., Peruzzo* D., Andreola C., Villa M., Ciceri T., Trezzi V., Marino C., Arrigoni F. (*: co-first author)
Journal	Brain Sciences, 2021, 11 (6): 722
Title	Multi-steps registration protocol for multimodal MR images of hip skeletal muscles in a longitudinal study
Authors	Fontana L., Mastropietro A., Scalco E., Peruzzo D., Beretta E., Strazzer S., Arrigoni F., Rizzo G.
Journal	Applied Sciences, 2020, 10 (21): 7823 1-16
Title	Sensitivity of Neuroimaging Indicators in Monitoring the Effects of Interferon Gamma Treatment in Friedreich's Ataxia
Authors	Vavla M., Arrigoni F., Toschi N., Peruzzo D., D'Angelo M.G., Gandossini S., Russo A., Diella E., Tirelli S., Salati R., Rufini A., Condo I., Testi R., Martinuzzi A.
Journal	Frontiers in Neuroscience, 2020, 14: 872
Title	Characterizingwhite matter tract organization in polymicrogyria and lissencephaly: A multifiber diffusion mri modeling and tractography study
Authors	Arrigoni F., Peruzzo D., Mandelstam S., Amorosino G., Redaelli D., Romaniello R., Leventer R., Borgatti R., Seal M., Yang J.Y.-M.
Journal	American Journal of Neuroradiology, 2020, 41 (8): 1495-1502
Title	A multi-metric registration strategy for the alignment of longitudinal brain images in pediatric oncology

Authors	Montin E., Belfatto A., Bologna M., Meroni S., Cavatorta C., Pecori E., Diletto B., Massimino M., Oprandi M.C., Poggi G., Arrigoni F., Peruzzo D., Pignoli E., Gandola L., Cerveri P., Mainardi L.
Journal	Medical and Biological Engineering and Computing, 2020, 58 (4): 843-855

Title	Safety and efficacy of interferon γ in friedreich's ataxia
Authors	Vavla M., D'Angelo M.G., Arrigoni F., Toschi N., Peruzzo D., Gandossini S., Russo A., Diella E., Tirelli S., Salati R., Scarpazza P., Luffarelli R., Fortuni S., Rufini A., Condò I., Testi R., Martinuzzi A.
Journal	Movement Disorders, 2020, 35 (2): 370-371

Title	Automatic Tissue Segmentation with Deep Learning in Patients with Congenital or Acquired Distortion of Brain Anatomy
Authors	Amorosino G., Peruzzo D., Astolfi P., Redaelli D., Avesani P., Arrigoni F., Olivetti E.
Journal	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2020, 12449 LNCS: 13-22

Title	The spectrum of brainstem malformations associated to mutations of the tubulin genes family: MRI and DTI analysis
Authors	Arrigoni F., Romaniello R., Peruzzo D., Poretti A., Bassi M.T., Pierpaoli C., Valente E.M., Nuovo S., Boltshauser E., Huisman T.A.G.M., Triulzi F., Borgatti R.
Journal	European Radiology, 2019, 29 (2) :770-782

Title	A different brain: Anomalies of functional and structural connections in williams syndrome
Authors	Gagliardi C., Arrigoni F., Nordio A., De Luca A., Peruzzo D., Decio A., Leemans A., Borgatti R.
Journal	Frontiers in Neurology, 2018, 9: 721

Title	Anterior mesencephalic cap dysplasia: Novel brain stem malformative features associated with joubert syndrome
Authors	Arrigoni F., Romaniello R., Peruzzo D., De Luca A.D., Parazzini C., Valente E.M., Borgatti R., Triulzi F.
Journal	American Journal of Neuroradiology, 2017, 38 (12): 2385-2390

Title	Stable spline deconvolution for dynamic susceptibility contrast MRI
Authors	Peruzzo D., Castellaro M., Pillonetto G., Bertoldo A.
Journal	Magnetic Resonance in Medicine, 2017, 78 (5): 1801-1811

Title	Neurogenetics of developmental dyslexia: From genes to behavior through brain neuroimaging and cognitive and sensorial mechanisms
Authors	Mascheretti S., De Luca A., Trezzi V., Peruzzo D., Nordio A., Marino C., Arrigoni F.
Journal	Translational Psychiatry, 2017, 7 (1): e987

Title	A framework for the automatic detection and characterization of brain malformations: Validation on the corpus callosum
Authors	Peruzzo D., Arrigoni F., Triulzi F., Righini A., Parazzini C., Castellani U.
Journal	Medical Image Analysis, 2016, 32: 233-242

Title	Aberrant supracallosal longitudinal bundle: MR features, pathogenesis and associated clinical phenotype
Authors	Arrigoni F., Romaniello R., Peruzzo D., Righini A., Parazzini C., Colombo P., Bassi M.T., Triulzi F., Borgatti R.
Journal	European Radiology, 2016, 26 (8): 2587-2596

Title	Automatic localization of cerebral cortical malformations using fractal analysis
Authors	De Luca A., Arrigoni F., Romaniello R., Triulzi F.M., Peruzzo D., Bertoldo A.
Journal	Physics in Medicine and Biology, 2016, 61 (16): 6025-6040

Title	Whole-brain DTI assessment of white matter damage in children with bilateral cerebral palsy: Evidence of involvement beyond the primary target of the anoxic insult
Authors	Arrigoni F., Peruzzo D., Gagliardi C., Maghini C., Colombo P., Servodio Iammarrone F., Pierpaoli C., Triulzi F., Turconi A.C.
Journal	American Journal of Neuroradiology, 2016, 37 (7):1347-1353

Title	Estimation of arterial arrival time and cerebral blood flow from QUASAR arterial spin labeling using stable spline
Authors	Castellaro M., Peruzzo D., Mehndiratta A., Pillonetto G., Petersen E.T., Golay X., Chappell M.A., Bertoldo A.
Journal	Magnetic Resonance in Medicine, 2015, 74 (6): 1758-1767

Title	Classification of first-episode psychosis: a multi-modal multi-feature approach integrating structural and diffusion imaging
Authors	Peruzzo D., Castellani U., Perlini C., Bellani M., Marinelli V., Rambaldelli G., Lasalvia A., Tosato S., De Santi K., Murino V., Ruggeri M., Brambilla P.
Journal	Journal of Neural Transmission, 2015, 122 (6):897-905

Title	The use of dynamic susceptibility contrast (DSC) MRI to automatically classify patients with first episode psychosis
Authors	Squarcina L., Perlini C., Peruzzo D., Castellani U., et al.
Journal	Schizophrenia Research, 2015, 165 (1):38-44

Title	Mapping brains on grids of features for schizophrenia analysis
Authors	Perina A., Peruzzo D., Maria Kesa, Jojic N., Murino V., Bellani M., Brambilla P., Castellani U.
Journal	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2014, 8674 LNCS (PART 2): 805-812

Title	Detection of corpus callosum malformations in pediatric population using the discriminative direction in multiple kernel learning
Authors	Peruzzo D., Arrigoni F., Triulzi F., Parazzini C., Castellani U.
Journal	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2014, 8674 LNCS (PART 2): 300-307

Title	A diffusion tensor imaging study of suicide attempters
Authors	Olvet* D.M., Peruzzo* D., Thapa-Chhetry B., Sublette M.E., Sullivan G.M., Oquendo M.A., Mann J.J., Parsey R.V. (*: co-first author)
Journal	Journal of Psychiatric Research, 2014, 51 (1):60-67

Title	Machine learning approaches: From theory to application in schizophrenia
Authors	Veronese E., Castellani U., Peruzzo D., Bellani M., Brambilla P.
Journal	Computational and Mathematical Methods in Medicine, 2013, 2013: 867924

Title	Heterogeneity of cortical lesions in multiple sclerosis: An MRI perfusion study
Authors	Peruzzo D., Castellaro M., Calabrese M., Veronese E., Rinaldi F., Bernardi V., Favaretto A., Gallo P., Bertoldo A.
Journal	Journal of Cerebral Blood Flow and Metabolism, 2013, 33 (3):457-463

Title	Comparative analysis of algorithms for whole-genome assembly of pyrosequencing data
Authors	Finotello F., Lavezzo E., Fontana P., Peruzzo D., Albiero A., Barzon L., Falda M., Di Camillo B., Toppo S.
Journal	Briefings in Bioinformatics, 2012, 13 (3), bbr063:269-280

Title	Automatic selection of arterial input function on dynamic contrast-enhanced MR images
Authors	Peruzzo D., Bertoldo A., Zanderigo F., Cobelli C.
Journal	Computer Methods and Programs in Biomedicine, 2011, 104 (3):e148-e157

Title	Assessment of clinical data of nonlinear stochastic deconvolution versus block-circulant singular value decomposition for quantitative dynamic susceptibility contrast magnetic resonance imaging
Authors	Peruzzo D., Zanderigo F., Bertoldo A., Pillonetto G., Cosottini M., Cobelli C.
Journal	Magnetic Resonance Imaging, 2011, 29 (7), :927-936

Title	Cerebellar and lobar blood flow in schizophrenia: A perfusion weighted imaging study
Authors	Bellani M., Peruzzo D., Isola M., Rambaldelli G., Perlini C., Baiano M., Cerini R., Andreone N., Barillari M., Mucelli R.P., Balestrieri M., Tansella M., Bertoldo A., Brambilla P.
Journal	Psychiatry Research - Neuroimaging, 2011, 193 (1):46-52

Title	The impact of schizophrenia on frontal perfusion parameters: A DSC-MRI study
Authors	Peruzzo D., Rambaldelli G., Bertoldo A., Bellani M., Cerini R., Silvia M., Pozzi Mucelli R., Tansella M., Brambilla P.
Journal	Journal of Neural Transmission, 2011, 118 (4), :563-570

Title	Draft genome sequences of two Neisseria meningitidis serogroup C clinical isolates
Authors	Lavezzo E., Toppo S., Barzon L., Cobelli C., Di Camillo B., Finotello F., Franchin E., Peruzzo D., Toffolo G.M., Trevisan M., Palù G.
Journal	Journal of Bacteriology, 2010, 192 (19): 5270-5271

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C2	C1	C1	C2
French				
A2	A2	A2	A2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills
- Good interpersonal and communication skills

Organizational / managerial skills
- Attitude for teamwork and interaction with people of different cultures and nationalities
- Ability to independently plan daily work and meet deadlines
- Ability to plan and manage a research project

Job-related skills
- Biomedical imaging data management
- Data analysis: system modelling, linear and non-linear estimators, Machine Learning algortihms, cluster analysis, deconvolution, basic statistical analysis
- Research project planning

Computer skills
- Operative systems: Windows, Linux, OS-X
- Office suites: Microsoft Office™, Libre Office
- Programming languages: Matlab, Python, Bash, SQL
- Image analysis softwares: FSL, SPM, FreeSurfer, ANTs, Tortoise

Driving licence A, B

ADDITIONAL INFORMATION

References Reference available upon request

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Bosisio Parini
16 September 2024