

Docente non Universitario

Esperienze

Employment History June 2016 – Present

Visiting Professor, Department of Human Kinesiology, KU Leuven, Belgium.

September 2015 – December 2015

Adjunct Professor at Department of Information Engineering - Università Politecnica delle Marche, Ancona, IT-60131 Italy. Master course in Biomedical Engineering. Teaching course - Bio-imaging and Brain Research.

June 2014 – September 2015

Visiting Professor, Neural Control of Movement Lab Department of Health Sciences and Technology ETH Zurich, Switzerland.

January 2012 – Present

Independent Researcher, LET'S, Institute of Cognitive Sciences and Technologies (ISTC) – National Research Council (CNR), Rome, Italy.

January 2012 – present

Visiting Research Fellow, Institute of Neuroscience, Newcastle University, Medical School, Framlington Place, Newcastle upon Tyne, NE2 4HH, UK.

January 2011 – December 2013 (Honorary academic title conferred after award of Royal Society Project)

Honorary Research Fellow, School of Psychology, Birmingham University, Birmingham, UK.

January 2011 – December 2011

Post-Doc - Independent Research Fellow, Institute of Neuroscience, Newcastle University, Medical School, Framlington Place, Newcastle upon Tyne, NE2 4HH, UK.

March 2008 – December 2010

Post-Doc - Research Fellow, School of Psychology, Birmingham University, Birmingham, UK. "Development of Single Trial EEG-fMRI: Investigations of Dynamic Brain Function at High Temporal and Spatial Resolution"

April 2007 - March 2008

Research Fellow, Institute for Advanced Biomedical Technologies (ITAB), University of Chieti, Italy. "EEG/MEG Signal analysis during sleep in healthy subjects and patients".

May - August 2007 - Visiting Research Fellow, Aston University, Birmingham UK. Title of collaboration 'Evaluation of the performance of linear and non-linear measures of connectivity in bioelectric signals'.

May - August 2006 – Visiting Research Fellow, Aston University, Birmingham UK. Title of collaboration 'Functional Source Separation applied to induced visual gamma activity'.

July 2004 – March 2007

Research Fellow, AFaR (Association for Research Fatebenefratelli) Center of Medical Statistics and IT, Rome, Italy. Neuroscience Department. Title of research: "Source extraction from Magnetoencephalographic (MEG) recordings to find maturation cortical index".

Academic History

2004-2008 Ph.D, "Functional Neuroimaging: from cells to systems". Institute for Advanced Biomedical Technologies (ITAB), Chieti University, Italy (with honours). "Development of Tools to Estimate Functional Connectivity among Cerebral Sensorimotor Sources".

2001-2004 Master II Level, "Bank, Insurance and Finance Management". Faculty of Economics of the University of Rome "La Sapienza", Italy. "Applying Independent Component Analysis to Factor Model in Finance".

1995-2001 MSc Computer Science, Faculty of Science, Mathematics, Physics and Natural of the University of Rome "La Sapienza", Italy. In collaboration with ISTC-National Research Council (CNR) at the Fatebenefratelli Hospital (Isola Tiberina, Rome, Italy). Dissertation in: Coherence analysis of bio-electrical signals.

Pubblicazioni

Main Research Interests

? Neural source identification from
electrophysiological non-invasive recordings;
? Cerebral sensorimotor cortical function;
? MEG-EEG/fMRI Integration;
? Logical Reasoning and Neuroscience;
? Brain Machine Interface-BMI ? Language: Overt Speech Production
? Human brain imaging;
? Functional Connectivity by MultiVariate AutoRegressive Model(MVAR);
? Fetal Magnetocardiography and Fetal Magnetoencephalography;

I am currently involved in planning, organising and running experiments with different neuroimaging techniques, such as EEG/MEG, fMRI and concurrent EEG/fMRI. As evidenced by my publications, I have developed strong collaborations with Italian, German, Dutch and English scientists, in various universities and research facilities. The individuals and project areas include: Dr. Tecchio, Dr. Salustri, Laboratory of Electrophysiology for Translational neuroScience (LET'S)-ISTC-National Research Council CNR (Functional Source Separation, sensorimotor control, fatigue); Prof. Pierelli, Dr. Coppola, University of Rome Sapienza (cortico-subcortical networks); Dr. Di Lorenzo, Prof. Siracusano, Department of Neuroscience University of Rome Tor Vergata (Low and High Frequency Oscillations); Prof. Abrusci, Prof. Casadio, Philosophy Department, University 'Roma Tre' (Logic Reasoning); Prof. Rossini, Dr. Tombini, Dr. Di Pino Clinical Neurology and Biomedical Robotics and Biomicrosystems Lab., Campus BioMedico of Rome University (Robotic Hand Control); Prof. Romani, Prof. Pizzella, Dr. Zappasodi, Department of Neuroscience and Imaging, University of Chieti-Pescara (Time-frequency analysis, Independent Component Analysis ICA, MEG, EEG); Dr. Oswald, Department of Neurology and Bernstein Centre for Computational Neuroscience, Charité, Berlin, Germany (Information theory); Dr. Hadjipapas, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen (visual induced gamma and evoked activity); Prof. Meyer, Netherlands Max Planck Institute for Psycholinguistics, Nijmegen (Overt Speech Production, EEG); Prof. Eyre, Institute of Neuroscience, Newcastle University (cortical plasticity in cerebral palsy, EEG); Prof. Seri, School of Life and Health Sciences, Aston University (Contradictory Reasoning, EEG, MEG); Dr. Bagshaw, Dr. Mayhew, Dr. Krott, Dr. Rotshtein, School of Psychology and Birmingham University Imaging Centre, University of Birmingham (Logic Reasoning, Overt Speech Production, Development of Single Trial Analysis Tools, fMRI, EEG, concurrent EEG- fMRI); Dr. Barnes, Wellcome Trust Centre for Neuroimaging, UCL, London (static and dynamic visual stimulation, MEG and EEG).
Awards

2012 Di Pino G*, Porcaro C*, Tombini M, Assenza G, Pellegrino G, Tecchio F, Rossini PM. A neurally-interfaced hand prosthesis tuned inter-hemispheric communication. *Restorative Neurology and Neuroscience*, 30:407-18, 2012. *These authors contributed equally to this work. This paper has been selected by IOS Press, publisher of *Restorative Neurology and Neuroscience* to be brought to the attention of the media in the September issue (30:5). The news release will be distributed via the scientific news services EurekaAlert (AAAS) and AlphaGalileo, serving primarily UK, Europe and Rest of World.

- <http://www.sciencedaily.com/releases/2012/08/120820114058.htm>

- http://www.iospress.nl/ios_news/neural-interface-for-hand-prosthesis-can-restore-function-in-brain-areas-responsible-for-motor-control/

2011 University Research Fellowship, Newcastle University (2 years - £100000).

2010 Best Poster at ICCN2010 28 October – 1 November, Kobe, Japan.

2010 International Federation Of Clinical Neurophysiology (IFCN) - Fellowship to attend the International Congress of Clinical Neurophysiology 28 October – 1 November, Kobe, Japan
-ICCN2010 Award – \$1000.

2008 Research Award – AFaR (Association for research Fatebenefratelli) – €1000.