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1. Personal Information and Curriculum Vitae

Personal information



Dr. Marco Ricci


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Sex: M | Date of birth: 02/02/1978 | Nationality: Italian

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 marco.ricci@unical.it


Scholar Google profile:

<https://scholar.google.it/citations?user=3QGzokEAAAAJ&hl=it>

 Scopus author page:

<https://www.scopus.com/authid/detail.uri?authorId=7201452637>

OrcID page: <https://orcid.org/0000-0003-1938-1758>

 Skype: marco.tricci

Current academic position

From 31 December 2016

Associate Professor of Electrical Engineering (ING-IND\31 - ELETTROTECNICA)

University of Calabria, Department of Informatics, Modeling, Electronics and System Engineering, via Pietro Bucci, 87036 Arcavacata di Rende, Cs, Italy

Main activities/responsibilities: Teacher of Electrical Engineering – Elettrotecnica at the Bachelor Courses of a) Electronic Engineering, b) Information Engineering, c) Supervision of students, PhDs;

Previous academic positions & work experiences

*From 10 September 2007
to 30 December 2016*

Researcher (Ricercatore Tempo Indeterminato) of Electrical Engineering (ING-IND\31 - ELETTROTECNICA)

University of Perugia, Department of Engineering (former Department of Industrial Engineering)

Main activities/responsibilities: Teaching activity on Electrical Engineering (Bachelor Courses) and Nondestructive Testing Evaluation (Master Course of Industrial Engineering); Supervision of students, PhDs, research fellows;

From 1 January 2015 to 30 December 2016: Head of the laboratory of Nondestructive Testing of the Department of Engineering

*From 1 December 2005
to 10 September 2007*

Research Grant (Assegno di Ricerca) at the Department of Industrial Engineering University of Perugia, Department of Industrial Engineering

Main activities/responsibilities: Research Activity on Non-Destructive Testing, Inverse Problems, Signal Processing

*From March 2005 to
August 2005*

Research Grant – (CO.CO.CO.)

Istituto Nazionale per la Fisica della Materia

Title of the research project: Applications of the quantum cloning to measurement protocols and to the transmission of quantum information

- From February 2004 to August 2004* Research Grant – (CO.CO.CO.)
 Istituto Nazionale per la Fisica della Materia
Title of the research project: Experimental implementation of quantum cloning and quantum purification protocols by means of linear optics
- From January 2003 to August 2003* Research Grant – (CO.CO.CO.)
 Istituto Nazionale per la Fisica della Materia
Main activities/responsibilities: Development of a Fock-states detector and of quantum-states interferometer

Education

- From September 2002 to January 2006* PhD in Physics (with Grant, 1st classified in the selection procedure)
 University of Roma “La Sapienza”, Dept. of Physics
 Research Topic: Quantum information and quantum measurement theory, quantum optics.
 Supervisor: Prof. Francesco De Martini
- From September 1996 to July 2002* Laurea Degree in Physics (110/110)
 University of Roma “La Sapienza”, Dept. of Physics.
 Thesis Topic: Quantum information and quantum measurement theory, quantum optics.
 Supervisor: Prof. Francesco De Martini

Job-related skills

Linguistic Skills
Mother tongue Italian

<i>Other language(s)</i>	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
<i>English</i>	B2	C1	B2	B2	C1

- Specific technical skills* Advanced knowledge of the following scientific software: MATLAB, Labview, Mathematica, Origin, LaTeX.
 Intermediate knowledge of Python language, Arduino platform.
 Advanced expertise in data-acquisition hardware and scientific instrumentation (e.g. National Instruments data acquisition hardware, Thorlabs instruments, FLIR infrared camera, etc...)
- Communication skills* Good communication skills gained through experience as: 1) teacher in bachelor and master degree courses since 2007, 2) speaker in several international conferences and workshops, 3) invited speaker in various local radio and television programs for research dissemination
- Organisational / managerial skills* Skills acquired through coordination of research groups and of international and national research and applied research projects.

2. Italian Scientific Qualification (Abilitazione Scientifica Nazionale) achieved

- Italian Scientific Qualification for Full Professor, Call 2016, 4th session, Recruitment sector 09/E1, Scientific sector ING-IND\31 ELETTROTECNICA, achieved on date 28/03/2018, expiry date on 28/03/2024
- Italian Scientific Qualification for Associate Professor, Call 2012, Recruitment sector 09/E1, Scientific sector ING-

IND\31 ELETTROTECNICA, achieved on date 03/02/2014, expiry date on 03/02/2020;

3. Scientific activity short description

Marco Ricci is active in scientific research since 2003 and since then his research activity have been mainly focused on the study of electromagnetic and acoustic fields and on their interaction with matter and materials.

In these years, his research activity covered various topics: he started investigating quantum-optics implementation of quantum-information and optimal quantum-measurement procedures during the thesis and the PhD, whereas his research activity is currently mainly focused on developing nondestructive testing and evaluation (NDT&E) measurement procedures applied to industrial goods, food and cultural heritage by exploiting eddy-current, ultrasound and thermography and pulse-compression theory.

Despite the different research fields above mentioned, in both cases Marco Ricci's research methodology is characterized by a theoretical modelling activity of innovative measurement, processing and imaging protocols supported by an enduring experimental validation effort aimed to verify the theory and fostering practical applications.

In parallel, during the last ten years his research interest has been also devoted to study magnetism and in particular spintronics phenomena.

Within this framework, Marco Ricci acquired an extended knowledge of electromagnetic, acoustic and heat theories and in several aspects of signal and image processing, especially applied to NDT&E techniques. He gained also expertise on various scientific software such as MATLAB, Labview, Mathematica and OriginLab among the others.

Simultaneously, the enduring experimental activity allowed him to obtain experience and skills in data acquisition systems (digital oscilloscopes, arbitrary waveform generators, frame grabbers, etc.), ultrasonic and acoustic transducers, IR cameras, laser systems, motorized translation stages and related drivers, etc. and in managing even complex measurement setups by using Labview and MATLAB.

He is co-author of about ninety papers on international journals and international conference proceedings, of three Italian patents and various book chapters. He was the editor of a book on Industrial application of Ultrasonic NDT that summarize the research results obtained during an Italian research project PRIN2009 funded by the Ministry of Education, University and Research.

In the field of nondestructive testing & evaluation, which represents his main research activity, he coordinated/coordinates and he is involved in various national and international research and applied research projects in collaboration with renowned researchers (Prof. D.A. Hutchins from Warwick University, Prof. G.Y. Tian from Newcastle University, Prof. X. Maldague from Laval University, etc.) and prestigious foreign academic and industrial partners such as SIEMENS, University of Warwick, Fraunhofer Institute, KU Leuven, University of Newcastle, Commissariat à l'énergie atomique et aux énergies alternatives, etc..

The results obtained allowed him to gain international reputation in the nondestructive testing and evaluation community and indeed he recently became member of the Editorial Board of the "NDT & E International" journal, one of the most prestigious journals in that sector.

Besides the use of NDT techniques to test industrial products, Marco Ricci also applied them the inspection of food products (in collaboration with COLUSSI and Biscotti Gentilini) and recently to the inspection of Cultural Heritage. Concerning the latter topic, which is rapidly developing and very promising, he is the Coordinator of a proposal for a European Training Network submitted to the call H2020-MSCA-ITN2019 the last January. Various researchers, universities, research centres, companies working on Cultural Heritage are part of the consortium as well as prestigious important EU museums (the Staatliche Kunstsammlungen Dresden, the Museum of Antiquities of the University of Leipzig, the Accademia Carrara of Bergamo).

4. Coordination of research and technology transfer groups and projects, participation in research and technology transfer projects

Concerning the coordination of research and technology transfer groups and projects, Marco Ricci gained experience through the following actions:

4.1 Coordination and management of the research groups:

- Currently Marco Ricci leads the research group of Electrical Engineering at the DIMES Dept of the University of Calabria. He also works closely in collaboration with the NDT Laboratory at the Engineering Dept. of the University of Perugia, supervising the research activities in the field of thermography, eddy current and ultrasound.
- From January 2015 to December 2016 he was the Coordinator of the NDT Laboratory of the Dept. of Engineering- Polo Scientifico Didattico di Terni, University of Perugia;
- He was the Supervisor/Cosupervisor of >20 Undergraduate/Graduate Thesis, 5 PhD students (XXXVII and XXX cycles)
- He was the Joint-Supervisor of a PhD student that developed the PhD in Joint-supervision (Cotutelle) between the PhD School of Engineering of the University of Warwick and the PhD School in Industrial and Information Engineering - University of Perugia (XXIX cycle)
- He was the Supervisor of two PhD students enrolled in the PhD school of Industrial and Information Engineering - University of Perugia – XXXII cycle in the framework of the NDTonAIR H2020-MSCA-ITN2016 project;
- Currently he is the Thesis Supervisor of 6 Undergraduate students at the University of Calabria
- Marco Ricci was the Scientific Supervisor of a “3-years Fixed Time Research Grant” (Ricercatore a tempo determinato Tipo A legge 240/2010 – Settore concorsuale 09/E1 – Elettrotecnica – Profilo SSD ING-IND/31 – Elettrotecnica). The contract has been awarded within the project “Hyperspectral imaging system for advanced non-destructive testing and evaluation of materials” funded by the “Fondazione Cassa di Risparmio di Terni e Narni” and of which Marco Ricci is the Scientific Coordinator;
- Marco Ricci was the Scientific Supervisor of n°3 “1-year Research Grant” (Assegni di Ricerca) awarded within the following projects funded by the “Fondazione Cassa di Risparmio di Terni e Narni” of which he was the Scientific Coordinator: 1) “Quality control of industrial products through an ultrasonic imaging system based on pseudo-orthogonal sequences”; 2) “Electromagnetics techniques for the non-destructive evaluation of the welding in complex metallic structures”; 3) “Design and development of spintronic sensors for microwave imaging with applications to the non-destructive evaluation and the characterization of materials”.

4.2 Scientific responsibility (Principal Investigator) of competitive National and International research projects, awarded through a peer-review process.

- Principal Investigator (Coordinator) of the Project: NDTonAIR - Training Network in Non-Destructive Testing and Structural Health Monitoring of Aircraft structures, start date 1st October 2016- end date 30th September 2020.
The project was approved for funding under the Call H2020-MSCA-ITN-2016 MARIE SKŁODOWSKA-CURIE INNOVATIVE TRAINING NETWORKS – Funding Scheme: EUROPEAN TRAINING NETWORK. Project Estimated budget 3.808.670€.
Marco Ricci coordinated the project for the University of Perugia since the submission stage up to the 30 December 2016, date of the move to the University of Calabria. Since 31 December 2016 he is the Chair of the Supervisory Board of the Project. For more information about the project, please visit <http://www.ndtonair.eu/> and <https://cordis.europa.eu/project/rcn/205434/en>
- Unit PI (from January 2017) within the NDTonAIR project for the University of Calabria, which is a Partner Organization.

- Unit PI (from May 2016 to December 2016) for the University of Perugia in the framework of the Italia-China bilateral scientific and cooperation agreement “di Grande Rilevanza ITALIA-CINA 2016-2018 (Grant CN16GR09)” founded by Ministero degli Affari Esteri e della Cooperazione Internazionale.– Title: “Nanorecettori alle microonde a banda larga basati sul trasferimento di momento magnetico di spin / Broadband microwaves nano-receivers based on spin-transfer-torque”

4.3 Scientific responsibility of National and International research projects, ruled through partnership agreements with companies and/or public private bodies, which are leaders in their own sector.

- from June 2015 to September 2016, Scientific Supervisor of the Applied Research Project: “Development of a pre-competitive apparatus with the related data acquisition and storing software for the inspection of forging through the integration of: (I) an ultrasonic Non-Destructive testing system; (II) an ultrasonic positioning system for the tracking of the measurement points over the forgings”, (35000 €), financed by Divisione Fucine di Acciai Speciali Terni S.p.A. - Thyssen Krupp (Italy);
- from April 2015 to June 2016, Scientific Supervisor of the Applied research project: “Application of Pulse Compression to automatic ultrasonic inspection and imaging” (45000 €), financed by SIEMENS A.G. (Germany);
- from July 2013 to December 2014, Scientific Supervisor of the Applied Research Project: “Ultrasonic Technique for the inspection of forgings with high dissipation: validation with third-parties, development of a prototype system integrating the inspection system, a positioning system for the localization of the probes over the forging and an automatic report generator software”, (35000 €), financed by Società delle Fucine S.r.l. – Acciai Speciali Terni- Thyssen Krupp (Italy);
- from October 2011 to December 2012, Scientific Supervisor of the Applied Research Project Scientific Supervisor of the Applied Research Project: “Ultrasonic Technique for the inspection of forgings with high dissipation: validation of the technique and development of custom hardware parts”, (50000 €), founded by Società delle Fucine S.r.l. – Acciai Speciali Terni- Thyssen Krupp (Italy);

4.4 Participation in National and International research, applied research and technology transfer projects

- MSCA-RISE-2019. Member of unit of Università della Calabria in the project TECTONIC
- MIUR- PRIN 2009. Participation as researcher of the Università degli studi di Perugia at the project "Diagnostica non distruttiva ad ultrasuoni tramite sequenze pseudo-ortogonali per imaging e classificazione automatica di prodotti industriali ", Coordinator: Prof. Pietro Burrascano, Università degli Studi di Perugia,
- MIUR-PRIN 2004. Participation as researcher of the Università degli studi di Perugia at the project “Applicazioni di Metodi per Diagnostica Elettromagnetica (AMDE)”, Coordinator: Prof. E. Cardelli, Università degli Studi di Perugia
- MIUR PRIN 2005. Participation as researcher of the Università degli studi di Roma “La Sapienza” at the project "Distribuzione di informazione quantistica e crittografia", Coordinator Prof. G. M. D'Ariano, Università degli Studi di Pavia
- Miur- prin (cofin) 2002. Participation as researcher of the Università degli studi di Roma “La Sapienza” at the project "Misure ad alta sensitività' assistite da entanglement"- Coordinator Prof. G. M. D'Ariano, Università degli Studi di Pavia
- FP5-IST FET European Network IST-2000-29681. Participation as researcher of the Università degli studi di Roma “La Sapienza” at the project “ATESIT- Active Teleportation and Entangled State Information

Technology”, Coordinator Prof. Francesco De Martini, Università degli studi di Roma “La Sapienza” & Istituto Nazionale per la Fisica della Materia.

- from June 2012 to June 2014 - POR FESR 2007/2013 Bando Co-Research – Regione Lazio – FILAS-CR-2011-1095
Participation as researcher of the Università degli studi di Perugia- Polo Scientifico Didattico di Terni at the project " Studio e sviluppo di un innovativo blocco in laterizio per la realizzazione di murature da tamponamento ecocompatibile e ad alte prestazioni termiche” in collaboration between the Polo Scientifico Didattico di Terni and FORNACI D.C.B. – PIERINO BRANELLA S.P.A.;
- from October 2011 to October 2013 - POR FESR 2007/2013 Bando Co-Research – Regione Lazio – FILAS-CR-2011-1045
Participation as researcher of the Università degli studi di Perugia- Polo Scientifico Didattico di Terni at the project "Studio e sviluppo di un'avanzata tecnica di diagnostica senza contatto a infrarossi per l'intercettazione di particelle solide estranee nei prodotti da forno, e validazione prototipale piena scala con ispezione continua su linea tipo per fette biscottate. (NIRD 2011 - Noninvasive InfraRed Detection)” in collaboration between the Polo Scientifico Didattico di Terni and Biscotti P. Gentilini Srl;
- from October 2010 to October 2012, POR FESR 2007/2013 Bando Re.sta Ricerca 2008 – Regione Umbria -
Participation as researcher of the Università degli studi di Perugia- Polo Scientifico Didattico di Terni at the project "Studio nuove metodiche e tecnologie avanzate per intercettazione inquinanti fisici e ottenimento di prodotti da forno ad alta qualità” in collaboration between the Polo Scientifico Didattico di Terni and the companies Colussi S.p.A, ITALSTEM - SOCIETA' TECNOLOGIE ELETTROMECCANICHE S.p.A, e VIPAL S.p.A. ;
- from June 2009 to July 2011 as researcher of the Università degli studi di Perugia- Polo Scientifico Didattico di Terni at the applied research project “Progetto per lo sviluppo di tecniche diagnostiche non distruttive per l'individuazione e la classificazione di difetti superficiali in laminati d'acciaio inossidabile” between Polo Scientifico Didattico di Terni – Università degli Studi di Perugia and THYSSEN-KRUPP ACCIAI SPECIALI TERNI S.p.A.

4.5 Outcomes obtained in the field of technology transfer, in terms of participation in start-ups and spin-offs, development, use and commercialization of patents/licenses.

- Italian Patents:
[I] Sistema di rilevamento di inquinanti in prodotti da forno / Method for the detection of foreign bodies in baked products,
Patent n° 0001413533, Date of registration 23 January 2015, Patent request n° RM2012A000377, Inventors: BURRASCANO P, GHIRELLI F, MARTINI R, PENNISI P, RICCI M, SANTI R, SENNI L.
[II] Metodo per la commutazione rapida in nanodispositivi MRAM / Method for the fast switching of MRAM nanodevices,
Patent n° 0001406955, Date of registration 14 March 2014, Patent request n° TR2011A000001, Inventors: BURRASCANO P, CARPENTIERI M, RICCI M.
[III] Metodo e relativo apparato per il controllo non distruttivo di materiali conduttori / Method and related apparatus for the non destructive testing of conductive materials,
Patent n° 0001381699, Date of registration 27 September 2010, Patent request n° MI2007A000381, Inventors BURRASCANO P, CARPENTIERI M, RICCI M.
- Invited Speaker at the workshop “Technology-Industry Matching Seminar” in the framework of the “Soft-Landing Project for Technology and Innovation Collaboration” promoted by the Hong Kong Science & Technology Parks. Hong Kong 15-16 September 2014, Shenzhen 17 September 2014;

- September 2012-September 2015, Founder and Member of the University of Perugia SPIN-OFF CADET Lab, - Circuits and Algorithms for Diagnostics, Evaluation and Testing.
- Marco Ricci participated as researchers of the University of Perugia – Polo Scientifico e Didattico di Terni at the project “IN.TE.R.A.M.NA (INnovazione, TECnologie e Ricerca Avanzata per I Materiali ed i Nanomateriali)”, funded by the “Ministero dello Sviluppo Economico” in the call BANDO RIDITT 2010 “Bando nazionale per il finanziamento di progetti di diffusione e trasferimento tecnologico al sistema produttivo e la creazione di imprese ad alta tecnologia / Call for national funding for projects of dissemination and technology transfer projects to the productive system and the creation of high-tech companies”.

5. National and international reputation and professional activity for the scientific community

- Member of the Editorial Board of the Journal “NDT & E International”, ISSN: 0963-8695, publisher Elsevier BV, Q1 journal, 5-Year Impact Factor 2017: 2.976
(<https://www.journals.elsevier.com/ndt-and-e-international/editorial-board>)
- External expert member of the UK Engineering and Physical Sciences Research Council (EPSRC) project “High resolution biomedical imaging using ultrasonic metamaterials” coordinated by Warwick, Prof. D.A. Hutchins
- Member of the Organizing Committee of ENDE 2019, the 24th International Electromagnetic Nondestructive Evaluation workshop (<http://www.ende2019.com/>)
- Reviewer for various journals, such as: NDT & E International, IEEE Transaction of Magnetics, Ultrasonics, Measurement, IEEE Transactions on Instrumentation and Measurements, IEEE Sensors Journal, Journal of Non-destructive Evaluation, Quantitative Infrared Spectroscopy, etc....
- Visiting Scientist at the University of Warwick (9-12 April 2013 & 18-25 August 2014 & 18-28 August 2018);
- Visiting Scientist at the University of Newcastle (10-12 November 2014);
- Invited speaker at the “1st SAFE-FLY International seminar”, 24-25 January 2018, Madrid, organized by Aernnova Engineering;
- Invitation as invited speaker at the International Conference “Far East Forum on Non-destructive Evaluation and Testing” 21-24 June 2016 – Title of the talk “The use of pulse compression and image processing in Eddy Current Testing”, Nanchang, China;
- Invited speaker at the workshop: “Frontiers in Magnetism”, 15 June 2016 – Title of the Talk: Skyrmion based microwave detector and harvesting, Messina, Italy;
- Invited Speaker at the Italian Conference “PRODOTTI FORGIATI, LAMINATI e FUSI Terni - 25/26 Ottobre 2012” organized by the AIPnD – Associazione Italiana Prove non Distruttive – Italian Society of Non Destructive Testing;
- Invited speaker at the INTERNATIONAL CONFERENCE ON MODELLING AND SIMULATION, Czech Technical University in Prague, 22 - 25 June 2010;
- Invited speaker at the workshop "YEP 2003 Young European Physicist" del Research Training Network QUEST, "Quantum Entangled States of Trapped particles", 29 April-4 May 2003, Budmerice, Slovakia.

Main Scientific Collaborations (ongoing):

- Università di Perugia – Dept. of Engineering, Prof. Pietro Burrascano, Dr. Stefano Laureti;
- University of Warwick (UK) – School of Engineering, Prof. David. A. Hutchins; Dept. Of Physics, Prof. S. Dixon;
- University of Newcastle upon Tyne (UK) – School of Engineering, Prof. Gui Yun Tian;
- Università di Bari, Prof. M. Carpentieri;
- Università di Messina, Prof. G. Finocchio;

- Università di Cassino – Prof. G. Betta, Prof. A. Tamburrino, Prof. L. Ferrigno, Dr. M. Laracca;
- SIEMENS Corporate Division (DE), Dr. Matthias Goldammer, Dr. Hubert Mooshofer;
- Acciai Speciali Terni-Thyssen Krupp, Dr. Stefano Neri;
- Université Laval, MIVIM lab, Prof. Xavier Maldague;
- RECENDT Ghmb (AT), Dr. Peter Burgholzer;
- Università degli studi della Tuscia–Prof. Giuseppe Calabrò, Dr. Claudia Pelosi;
- Università politecnica delle Marche – Prof. Francesco Piazza, Prof. Stefania Cecchi, Dr. Andrea Terenzi
- Università di Salerno – Prof. Nicola Femia, Dr. Giulia di Capua;
- Politecnico di Torino – Prof. Marco Scalerandi, Prof. Antonio Gliozzi, Dr. Mauro Tortello;
- Università di Bologna – Dr. Luca De Marchi;

6. Teaching activity

Teaching offices in Italian and/or foreign universities in Bachelor's and Master's degree courses:

From A.Y. 2019-2020	Course of “Energy management of electric and hybrid vehicles”, Master degree in Electronic Engineering, Dipartimento DIMES, Università della Calabria
From A.Y. 2018-2019	Course of “Electrical Engineering”, Bachelor degree in Food Engineering, Dipartimento DIMES, Università della Calabria
From A.Y. 2016-2017	Course of “Electrical Engineering”, Bachelor degree in Electronic Engineering, Dipartimento DIMES, Università della Calabria
From A.Y. 2016-2017	Module of “Electrical Engineering” of the course of “Electromagnetism and Electrical engineering”, Bachelor degree in Information Engineering, Dipartimento DIMES, Università della Calabria
A.Y. 2015-2016	Module of “Electrical engineering for the control of industrial processes- B” of the course of “Electrical engineering for the control of industrial processes” (ING-IND/31), Master Degree in Industrial Engineering Magistrale, Dipartimento di Ingegneria, Università degli Studi di Perugia
A.Y. 2014-2015	Module of “Processing for nondestructive evaluation” of the course of “Circuit Theory” (ING-IND/31), Master Degree in Industrial Engineering Magistrale, Dipartimento di Ingegneria, Università degli Studi di Perugia
From A.Y. 2010-2011 to A.Y. 2013-2014	Module of “Circuit Theory” of the course of “Circuit Theory” (ING-IND/31), Master Degree in Industrial Engineering Magistrale, Dipartimento di Ingegneria, Università degli Studi di Perugia
From A.Y. 2011-2012 to A.Y. 2010-2011	Module of “Elettrotecnica 2” – Course of “Elettrotecnica” (ING-IND/31), Bachelor Degree in Engineering Management and Information Engineering, Facoltà di Ingegneria, Università degli Studi di Perugia
From A.Y. 2007-2008 to A.Y. 2010-2011	Course of “Sistemi Elettrici per l’Energia” (ING-IND/31), Bachelor Degree in Energy Engineering, Facoltà di Ingegneria, Università degli Studi di Perugia

Teaching offices in Italian and/or foreign universities in PhD courses;

A.Y. 2011-2012 Course of “Inversion tomography techniques for industrial applications” PhD School in Industrial Engineering, XXVII Cycle, Università degli Studi di Perugia

7. Institutional offices and roles in Italian and foreign Universities and/or public and private institutions with scientific and/or technology transfer aims

- From 2019 (XXXV ciclo): Member of the Board of the PhD School in “Information and communication technologies” of the University of Calabria;
- From July 2017: Invited member of the Marie Curie Alumni Association as Coordinator of a Marie Skłodowska Curie project founded by EU;
- From August 2013 (XXIX ciclo) to 2019: Member of the Board of the PhD School in “Ingegneria Industriale e dell’Informazione – Industrial and Information Engineering” of the University of Perugia;
- From January 2014 to December 2016: Member of the Erasmus Board of the Dept. of Engineering of the University of Perugia;
- AY 2012-2013 -2013-2014: Supervisor of the ERASMUS Agreement between the University of Perugia and the University of Warwick;
- From AY 2014-2105 to December 2016: supervisor of the ERASMUS+ Agreement between the University of Perugia and the Kaunas University of Technology;
- February 2014 - Member of the Evaluation Board of the PhD School (XXVI Cycle) in “Advanced technologies for Optoelectronics, Photonics and Electromagnetic Modelling” of University of Messina;