

Personal Information and Curriculum Vitae

Personal information

Dr. Marco Ricci

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

Scholar Google profile: <https://scholar.google.it/citations?user=3QGzokEAAA&hl=it>

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

Previous academic positions & work experiences

*From 10 September 2007 to
30 December 2016*

Researcher (Ricamatore Tempo Indeterminato) of Electrical Engineering
(ING-IND\31 - ELETTROTECNICA)
University of Perugia, Department of Engineering (former Department of Industrial 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

Education

*From September 2002 to
January 2006*

PhD in Physics (with Grant)
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

Bibliometric indicators

SCOPUS

h-index: 22

n° citations: 1431 from 971 documents

n° citation without self-citations: 1056

n° publications: 131

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: “Nanoricevitori alle microonde a banda larga basati sul trasferimento di momento magnetico di spin / Broadband microwaves nano-receivers based on spin-transfer-torque”

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 sensitivita' 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.

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”.

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
- 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.

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. 2020-2021	Course of "Statistical data analysis and signal processing techniques, Università della Calabria, PhD school in ICT
A.Y. 2011-2012	Course of "Inversion tomography techniques for industrial applications" PhD School in Industrial Engineering, XXVII Cycle, Università degli Studi di Perugia