

Europass Curriculum Vitae



Personal information

First name / Surname **MARCELLO ALECCI**
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 Nationality Italian
 Date of birth 14/05/1961

Work experience

Dates May 2023 – today
 Occupation or position held **Science Attaché**

My mission is to promote and strength the scientific and technological activities between Italy and the Midwest States, under the guidance of the Consul General of Italy in Chicago, in coordination with the Italian Embassy in Washington and the Ministry of Foreign Affairs and International Cooperation in Rome.

I will work within the worldwide network of Italian Science Attachés, evaluating proposals considered by bilateral Executive Protocols, under the General Directorate for the Promotion of the Country System of the Ministry of Foreign Affairs and International Cooperation in Rome.

Main activities and responsibilities

- a) Promotion of Italian science and technology advancements in the following Midwest States: Colorado, Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin, Wyoming.
- b) Mapping of existing agreements between Italian and US Midwest universities, institutes of higher scientific education, research centers, start-ups, companies, accelerators, and incubators.
- c) Boosting of exchanges and partnerships between Italian and US Midwest research subjects and organizations.
- d) Scouting and drafting of reports on issues related to US Midwest research, development and innovation in science and technology.
- e) Promoting and organizing science and technology events in the USA.
- f) Encouraging mutual mobility and exchanges of researchers and scholars in Italy and USA.
- g) Assisting Italian delegations of scholars visiting the Midwest US for research and higher education purposes.
- h) Supporting the organization of institutional visits of Midwest US scientists, scholars, and technology transfer managers to Italian science and technology institutions.
- i) Collaborating with networks of Italian researchers, scholars, private institutions engaged in research, development, and innovation in the USA.

Name and address of employer **The Consulate General of Italy in Chicago, Illinois (USA)**
 Type of business or sector Science and Technology

Dates 2003 - today
 Occupation or position held **Professor of Applied Physics (FIS/07)**

Main activities and responsibilities	Teaching “General Physics and Laboratory” (Biotechnology undergraduate course); “The Physics and Technology of Molecular Imaging” (Biotechnology graduate course and PhD school in Molecular & Cellular Biotechnologies); “Neuroimaging” (Neurosciences graduate course); “Diagnostic Instrumentation and Laboratory” (Medical Physics postgraduate school); and “Intellectual Property & Technology Transfer” (PhD Schools of the University of L’Aquila). Research in Physics Applied to Medicine, Biology, Environment. My main scientific interest is the physical understanding and technological advancement of Electron/Nuclear Magnetic Resonance Imaging (EPRI/MRI) and their applications in Biology and Medicine. The final aim is to improve medical imaging methods such as to help the biophysical understanding of diseases, to generate a better quality of life for patients, allowing a more efficient and effective healthcare system. I supervised more than 50 under graduated/PhD students and post-doc fellows working on the design of novel radio frequency coils for MRI scanners, novel MRI hardware, RF metamaterials, pulse sequences. My research expertise comprises also the development of preclinical models and molecular imaging procedures for the study and treatment of neurodegenerative diseases and cancer. The research facilities included a fully equipped RF hardware laboratory, a 2.35 T Bruker and a 1T Aspect MRI scanners, both used for basic/applied research and for providing commercial service to industries. I was the co-chair of the ESMRMB teaching workshops on “Advanced RF Coil Design” held at the University of L’Aquila (2016, 2017, 2018).
Name and address of employer	University of L’Aquila (Italy), Dept. of Life, Health, and Environmental Sciences
Type of business or sector	Education and Research
Dates	2008 - 2013
Occupation or position held	Prorector for Technology Transfer
Main activities and responsibilities	I was the founder and director of the Advanced Master in “Intellectual Property and Technology Transfer” (2007, 2009, 2011), the “Business Plan Competition” (2011, 2012), and the “Innovation Industrial Fellowships” (2011, 2012). I was in charge of the patent and spin off committees.
Name and address of employer	University of L’Aquila (Italy).
Type of business or sector	Education and Research
Dates	Jan 2020 - Dec 2022
Occupation or position held	Board Member and Vice-President Italian GIDRM Association Member of the GIDRM National Congress Planning Committee
Main activities and responsibilities	GIDRM is an Italian non-profit scientific association with more than 500 members working on NMR/MRI. I helped to manage the full activities of the GIDRM, including the organization of the national Congress and several Workshops and young investigator Awards.
Name and address of employer	Gruppo Italiano Discussione Risonanze Magnetiche (GIDRM)
Type of business or sector	Education and Research
Dates	Jan 2016 - Dec 2022
Occupation or position held	Associate Member CNR-SPIN
Main activities and responsibilities	Development of novel methods for Magnetic Resonance Imaging.
Name and address of employer	Italian National Research Council (CNR), Institute for superconductors, oxides and other innovative materials and devices (SPIN)
Type of business or sector	Research
Dates	Jan 2011 - Dec 2022
Occupation or position held	Associate Member INFN
Main activities and responsibilities	Development of novel methods for Magnetic Resonance Imaging.
Name and address of employer	Italian National Institute for Nuclear Physics (INFN)
Type of business or sector	Research

Dates	Jan 2020 - Dec 2021
Occupation or position held	Member of the ESMRMB International Congress Planning Committee
Main activities and responsibilities	I helped to manage the organization of the ESMRMB annual meeting.
Name and address of employer	European Society for Magnetic Resonance in Medicine and Biology (ESMRMB)
Type of business or sector	Education and Research
Dates	Apr 2002 – Mar 2023
Occupation or position held	“Rientro dei Cervelli” Professor of Applied Physics (FIS/07)
Main activities and responsibilities	Teaching General Physics at undergraduate and graduate level. Research in Physics Applied to Medicine and Biology.
Name and address of employer	University of L’Aquila (Italy), Dept. of Life, Health, and Environmental Sciences
Type of business or sector	Education and Research
Dates	Jul 1998 – Aug 2001
Occupation or position held	Research Officer
Main activities and responsibilities	Research in Ultra High Field Magnetic Resonance Imaging.
Name and address of employer	University of Oxford, Department of Neurology, FMRIB center, Oxford, UK
Type of business or sector	Research
Dates	Sep 1997 – Aug 1998
Occupation or position held	Marie Curie Fellow
Main activities and responsibilities	Development of a Multimodal PEDRI/FT-EPR Imaging Scanner.
Name and address of employer	University of L’Aquila (Italy), INFN, c/o Dept of Physics
Type of business or sector	Research
Dates	Sep 1996 – Aug 1997
Occupation or position held	Marie Curie Fellow
Main activities and responsibilities	Development of Multi Frequency Pulsed PEDRI.
Name and address of employer	University of Aberdeen (Scotland), Dept. of Biomedical Physics and Bio-Engineering
Type of business or sector	Research
Dates	Sep 1994 – Aug 1995
Occupation or position held	Marie Curie Fellow
Main activities and responsibilities	Proton Electron Double Resonance Imaging (PEDRI) and Continuous Wave Electron Paramagnetic Resonance (EPR) Imaging of Free Radicals in vivo.
Name and address of employer	University of Aberdeen (Scotland), Dept. of Biomedical Physics and Bio-Engineering
Type of business or sector	Research
Dates	Sep 1987 – Aug 1994
Occupation or position held	Research Assistant
Main activities and responsibilities	Development of a CW and pulsed EPR Imaging scanner.
Name and address of employer	University of L’Aquila (Italy), INFN, c/o Dept of Physics
Type of business or sector	Research
Education and training	
Dates	07/1999
Title of qualification awarded	PhD in Medical Physics and Bioengineering

Principal subjects/occupational skills covered EPRI, MRI and Overhauser Imaging

Name and type of organisation providing education and training University of Aberdeen (Scotland)

Level in national or international classification Excellent

Dates 10/1986

Title of qualification awarded **Degree in Physics**

Principal subjects/occupational skills covered Experimental BioPhysics

Name and type of organisation providing education and training University of Rome "La Sapienza" (Italy)

Level in national or international classification 110/110

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

European level (*)

English

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
Excellent	Excellent	Excellent	Excellent		Excellent

(*) *Common European Framework of Reference for Languages*

Social skills and competences I have experience in managing large student classes as well as participating and leading in national and international research groups.

Organisational skills and competences I am able to organize autonomously my work, defining priorities and taking responsibilities gained through over 30 years of research experience, fulfilling deadlines and goals. I am able to work under high stress conditions. I was PI in several national and international research projects. I have experience as local organizer and member of the scientific committee of many national and international conferences and workshops.

Technical skills and competences I have registered fourteen patents, and I am the co-author of over two hundred and eighty scientific publications including book chapters, refereed international journals and conference papers. I had collaborative scientific projects with top Italian, European and USA groups, contributing to more than 100 talks at scientific conferences and Universities worldwide. I am reviewer for scientific journals and funding agencies.
Google scholar counts: 2000 citations, h-index =24.

Computer skills and competences Knowledge of OSx, Windows, programming with Matlab. Experience with image processing (ImageJ), data manipulation and analysis (Excel, Matlab).

Annexes

Publication List

https://scholar.google.it/scholar?hl=en&as_sdt=0%2C5&q=marcello+alecci&oq=marcello

Chicago, 25 September 2023