



Fondazione
Compagnia
di San Paolo

Marco Gilli

CURRICULUM VITAE



Marco Gilli

Professional experience

2024

Chair

Fondazione Compagnia di San Paolo

2019 - 2024

Scientific Attaché (Science & Technology Counselor) at the Italian Embassy in the USA

Responsible for Applied Sciences and New Technologies, with particular reference to the following areas

- Digital Transition (big data, cloud computing, internet of things, machine learning and artificial intelligence, robotics, quantum technologies);
- Advanced/Additive Manufacturing;
- Electric, connected and autonomous vehicles and systems;
- Energy Transition.

2000 - TO DATE

Full Professor of Electrical Engineering at the Polytechnic of Turin, f.r. since 15/07/2019

Teaches Electrical Engineering and Circuit Theory on the Bachelor's Degree course and Non-linear Electrical Circuits and Networks course for the Master's Degree and PhD programmes.

1998 - 2000

Associate Professor of Electrical Engineering at the Polytechnic of Turin.

1991 - 1998

Researcher in the field of electrical engineering at the Polytechnic of Turin.



2012 - 2018

Rector of the Polytechnic of Turin

Legal Representative of the University, Chairman of the Board of Directors and Academic Senate.

2005 - 2012

Deputy Rector of the Polytechnic of Turin

Head of Internal Affairs, Vice-Chairman of the Board of Directors and Academic Senate.

2002 - 2005

Vice Dean of the I Faculty of Engineering of the Polytechnic of Turin

Functions of Deputy Dean from 01/05/2002 to 30/09/2003 and as Deputy Dean with responsibility for Level II Education - Master's Degree, Professional Masters and PhD - from 01/10/03 to 30/09/2005.

2013 - 2014

President of CESAER “Conference of European Schools for Advanced Engineering Education and Research”

International association, which includes some of the most prestigious European Technological Universities and aims to promote common planning and share the main policies concerning Research and Education.

2017 - TO DATE

Member of the Scientific Committee of Fondazione ENEL

The mission of Fondazione Enel is to interpret and analyse the complex scenarios of the energy transition and to promote policies that ensure sustainable development through a rigorous scientific approach.

2006 - 2010

President of the “Microsoft Innovation Center - MIC”, Turin

MICs, which are present all over the world, aim to provide advanced technologies to initiate innovative and collaborative research projects involving universities, the corporate system, with particular reference to SMEs and government agencies.

2012 - 2016

Member of the BoA of ST - POLITO

A consortium company owned by ST - Microelectronics and the Polytechnic of Turin, is focused on industrial research, experimental development and the design of next-generation sensors, circuits and electronic systems.



2012 - 2020

Member of the BoA of HUGEF - IIGM

HUGEF, “Human Genetic Foundation”, later named IIGM, “Italian Institute for Genomic Medicine”, is an investee Foundation of Compagnia di San Paolo, the University of Turin and the Polytechnic University of Turin, intended to foster and develop excellence in research and education in the field of human genetics, with particular reference to genomic variability in multifactorial diseases.

2017 - 2018

Member of the BoA of ISMB - Istituto Superiore Mario Boella

Centre for applied research and innovation, with about 150 researchers, focused on Information and Communication Technologies (ICT), founded by Compagnia di San Paolo and the Polytechnic of Turin and absorbed by LINKS in 2019.

2017 - 2018

Member of the BoD of the LINKS - “Leading Innovation and Knowledge for Society” Foundation

An investee institution of the Polytechnic of Turin and Compagnia di San Paolo that operates in the field of applied research in the fields of engineering and architecture, specialising in the polytechnical sciences of information and telecommunications, and territorial and environmental sciences.

2015 - 2019

Member of the Board of Governors of the “Siebel Energy Institute”

A consortium of leading universities and companies in the energy sector, funded by the Siebel Foundation, which promotes innovative and collaborative research focusing on applications of statistical analysis and machine learning to energy systems. Includes UC-Berkeley, MIT, Princeton, Carnegie Mellon University, University of Illinois at Urbana Champaign, Ecole Polytechnique, University of Tokyo and Tsinghua University.

2006 - 2008

Member of the “Board of Governors” of the IEEE (Institute of Electrical and Electronics Engineers) “Circuits and Systems Society”

Governing body of one of the most representative Societies of the IEEE, consisting of 15 representatives elected from among all the members of the Society; it has scientific guiding responsibilities, coordinates publishing activities and international conferences within the IEEE.

2001 - 2016

Chair of the North Italy Chapter of the IEEE

Northern Italy section of the IEEE Circuits and Systems Society, the international reference society in the field of research and technology transfer activities concerning electrical and electronic circuits and systems. It organises events and promotes projects among academic and industrial researchers in the regions of Northern Italy.



2005 - 2011

Chairman of ISCC - “Italian Society for Chaos and Complexity”

An international scientific association whose aim is to promote collaboration and joint projects between scientists and researchers interested in the fields of Chaos and Complex Systems by organising Schools, Workshops and Seminars, held by scientific personalities with a high international reputation.

2002 - 2007

Visiting Professor, Hungarian Academy of Science

One month a year from 2002 to 2007.

1999 - 2006

Visiting Professor, Helsinki University of Technology, subsequently renamed as Aalto University

One month a year from 1999 to 2006.

1994 & 1996 & 1998

Scholar Visitor, Hungarian Academy of Sciences

1992 & 1993

Scholar Visitor, University of California - Berkeley, USA

Publishing activity

2022 - TO DATE

Review Editor - Frontiers in Neuroscience

2010 - TO DATE

Editorial Board - International Journal of Bifurcation and Chaos

2006 - 2011

Editor in Chief - International Journal of Circuit Theory and Applications

2002 - 2003

Associate Editor, IEEE Transactions on Circuits and Systems-I, Area: Chaos and Bifurcations

1998 - 1999

Associate Editor, IEEE Transactions on Circuits and Systems-I, Area: Nonlinear Circuits and Systems



Management of Scientific Projects and Partnership Agreements

- 2005 - TO DATE Responsible, as Professor, for various national and international projects and, as Rector, for partnership agreements concerning training/research/technology transfer with around 40 leading companies in the manufacturing (FCA, GM, GE), Energy (ENEL, ENI, TERNA, EDF, State Grid China) and Information Technology sectors (ST, IBM, etc)
- 2012 - 2018 Responsible, as Rector, for more than 100 international agreements with the most prestigious technology universities in Europe and worldwide, including UC-Berkeley and MIT.
- 2012 - 2018 Responsible, as Rector, for the establishment of 11 Interdepartmental Centres at the Polytechnic of Turin, modelled on the existing ones at MIT / UC - Berkeley / EPFL, in the following strategic sectors Big Data - Machine Learning, Additive Manufacturing, Mobility, Energy, Health Technologies.

Organisation of International Scientific Events and Conferences

- 1999 - TO DATE
- General Chair, Technical Program Chair, Track Chair e Special session Chair**
- for a significant number of International Conferences, in particular organised by the IEEE (Institute of Electrical and Electronics Engineers): IEEE International Symposium on Circuits and Systems, IEEE International Workshop on Cellular Neural Networks, IEEE International Symposium on Neural Networks, IEEE International Symposium on Nonlinear Theory and Applications, European Conference on Circuits and Systems.
- Member of the IEEE Technical Committee**
- Cellular neural networks and array computing (Chair dal 2007 al 2009); Nonlinear circuits and systems.
- 2017
- Scientific coordinator of the session "G7 - SMEs and Digital Transformation".**
- as part of the 'Multistakeholder Conference' that preceded the **Ministerial G7 "ICT & Industry"**.



Evaluation of National and International Scientific Projects

1999 - TO DATE

Evaluator and reviewer of various national and international projects and member of committees for the awarding of various international prizes (including prizes awarded by the IEEE such as the prestigious Guillemin Cauer Prize, prizes awarded by companies and foundations such as the ENI award, EU projects, MIUR and MAECI).

Scientific Acknowledgements

2019 - TO DATE

As of 2019 and in all subsequent years, included in the **World's 2% Top Scientists** ranking compiled by Stanford University in collaboration with Elsevier.

2012 - TO DATE

Member of the Turin Academy of Sciences

2005 - TO DATE

Fellow of the Institute of Electrical and Electronics Engineers (IEEE)

The world's largest technical and professional organization for the advancement of technology.

2002 - 2003

Distinguished Lecturer of the IEEE Circuits and Systems (CAS) Society

1998

Ravani - Pellati Prize

awarded by the Turin Academy of Sciences for contributions to progress in the field of physics and in particular electrical engineering, on the occasion of the centenary of Galileo Ferraris' death.

1994 & 2024

Best Paper Award - International Journal of Circuit Theory and Applications

1990

Andreoni Prize

awarded by the Association of Engineers and Architects of the Polytechnic of Turin to the best graduate in Electronic Engineering.



Publications

1990 - TO DATE

Author or co-author of over 200 publications in international scientific journals or in the proceedings of international congresses

Research activity mainly in the field of theory and applications of electrical networks and non-linear systems, neural networks and machine learning, and partly in the field of electromagnetism.

Personal details

I consent to the processing of personal data contained in this Curriculum Vitae pursuant to GDPR 2016/679 and to the dissemination of the same through the website and social media channels of Fondazione Compagnia di San Paolo for reasons of transparency related to my office.

Turin, March 2024

Marco Gilli