

CURRICULUM VITAE

Dr. Gianluca Gubbiotti

09.01.1969

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Current Position

From 2020 – Senior Researcher at the Perugia Institute of Materials (IOM) of the Italian National Research Council (CNR).

Previous Positions

2008-2020 Researcher at the Perugia Institute of Materials (IOM) of the Italian National Research Council (CNR)

2006 – 2008 Research at Institute of Soft Matter of the CNR, Perugia, Italy.

2001 – 2006- Researcher at the Italian National Institute of Condensed Matter Physics (INFM), Perugia, Italy

2000 – 2001 Postdoctoral Researcher, University of Perugia, Italy.

1999 – 2000 Postdoctoral Researcher, INFM, Perugia, Italy.

Education

2017- Habilitation in Experimental Condensed Matter Physics- Full Professor (Prof. Ordinario, Prima Fascia) from Italian Ministry of University and Research (MIUR).

2013- Habilitation in Experimental Condensed Matter Physics- Associate Professor (Prof. Associato, Seconda Fascia) from Italian Ministry of University and Research (MIUR).

2009- Ph.D. in Material Science from University of Camerino, Italy. Thesis: "Magnetic and Structural properties of epitaxial Cu/Ni/Cu/Si(111) and Cu/Fe/Cu/Si(111) ultrathin films," Nov. 1995-Dec. 1998, supervisor Prof. G. Carlotti

1989 – 1995 Degree in Physics (Laurea, summa cum laude) from the University of Perugia, Italy. Thesis: "Brillouin light scattering investigation of magnetic thin films" (1995) supervisors Prof. G. Socino and Prof. G. Carlotti

Language

Mother Tongue- Italian

Second Language- English

Main Research Interests

Spin dynamics of thin and ultrathin magnetic layers; Magnetic properties of arrays of magnetic dots and wires: domain structures, magnetic excitation in laterally confined magnetic structures, magnetostatic coupling, magnetization reversal, magnetic anisotropy, interlayer exchange coupling, exchange-spring systems, spin Hall effect, Dzyaloshinskii-Moriya interaction. Brillouin light scattering, Magneto-optic Kerr effect magnetometry, Micromagnetic simulations, magnonic crystals and spin-transfer torque oscillators.

Publications and Presentations

- **Editor of two books**
- **Author of 13 book chapters**

- **199 peer-reviewed articles** including 1 Nature Nanotechnology, 1 Nature Communications, 1 Nano Energy, 7 Phys. Rev. Lett., 4 Scientific Reports and 9 Appl. Phys. Lett., 4511 total citations in Web of Science (on 18.08.2020), **h-index = 40**
- **80 contributions** to international academic conferences, workshops and research centers as presenting author including more than **30 invited talks and lectures**

Organization of Scientific Conferences

2020- **Chair** of the “New perspectives in Magnonics: from 2D to 3D systems”, August 31-Sept 4, Madrid, Spain.

2020- **Chair** of the “Spin waves and Magnonics” session at the AIM2020 Conference, March 8-11, Moena, Italy

2019- **Chair** of the Magnonics2019 Conference, July 28-August 1, Carovigno, Italy.

2018- **Chair** of the “New Frontiers in Magnonics” session at the EPS-DPG conference, March 11-16, Berlin, Germany

2017- **Co-Chair** of 5th Italian Conference on Magnetism, September 13-15, Assisi, Italy

2017- **Program Committee Member** of the Intermag Conference, April 24-28, Dublin, Ireland

2016- **Chair of the Early Career Session** at the JEMS conference, August 22-26, Glasgow, United Kingdom

2013- **Member of the Organizing committee** of the IEEE Summer School, June 9-14, Assisi, Italy.

2012- **Co-Chair** of the 1st International School on Magnonics, September 3-7, Santa Margherita Ligure, Italy

Editorial Work

2019- Member of the Editorial Board of the IOP Journal of Physics: Condensed Matter (JPCM).

2017 – **Editor** of the Advances in Materials Science and Engineering (Hindawi).

2002 – **Referee** for scientific journals including Nature Nanotech., Nature Commun., Physics Reports, Physical Review Letters, Applied Physics Letters, J. Phys. D: Appl. Phys, etc.

Membership of Scientific Associations

2019 – **Member** of the Società italiana di Fisica

2017 – **Member** of the SpinTronicFactory: Novel ideas for Spintronic and Magnonic Applications

2009 – **Member** of the Italian Association on Magnetism