



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Perla Malagò**

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Nationality Italian

Date of birth 08/10/1985

Gender Female

Work experience

Dates 10/2014 → 02/2015

Occupation or position held Assistant Professor for the course of "Struttura della materia", first part, for the Master of Science in Physics

Main activities and responsibilities Lectures with students (20 hours)

Name and address of employer Dipartimento di Fisica dell' Università degli Studi di Ferrara
Via Savonarola 9, 44121 Ferrara (FE) (Italy)

Dates 03/2014 → 06/2014

Occupation or position held Tutor for teaching course in Physics 1 for the Master of Earth Science and Computer Science

Main activities and responsibilities Lectures and tutorials specifically with small groups of students (35 hours)

Name and address of employer Dipartimento di Matematica dell' Università degli Studi di Ferrara
Via Savonarola 9, 44121 Ferrara (FE) (Italy)

Dates 10/2011 → 02/2012

Occupation or position held Tutor for teaching course in Physics 2 for the Master of Science in Physics

Main activities and responsibilities Lectures and tutorials specifically with small groups of students (30 hours)

Name and address of employer Dipartimento di Fisica dell' Università degli Studi di Ferrara
Via Savonarola 9, 44121 Ferrara (FE) (Italy)

Education and training

Dates	01/2013 →
Title of qualification awarded	PhD in Solid State Physics
Principal subjects/occupational skills covered	<ul style="list-style-type: none">- Study of magnetic properties in magnetic nanostructures.- Micromagnetic simulations based on Dynamical Matrix Method concerning the analysis of spin waves in 1D, 2D and 3D periodic magnetic systems with different geometries composed by different magnetic materials
Name and type of organisation providing education and training	Università degli Studi di Ferrara Via Savonarola 9, 44121 Ferrara (FE) (Italy)
Level in national or international classification	ISCED 6
Dates	16/06/2014 - 16/09/2014
Type of qualification awarded	Erasmus Placement
Principal subjects/occupational skills covered	-Theoretically study of magnetic properties in magnonic crystals composed of ferromagnetic materials and non-magnetic spacer
Name and type of organisation providing education and training	Faculty of Physics , Nanomaterials Physics Division Adam Mickiewicz University in Poznan, Poland.
Dates	26/11/2013
Title of qualification awarded	Scientific Cultural Master in Physics 30/30.
Name and type of organisation providing education and training	Università degli Studi di Ferrara Via Savonarola 9, 44121 Ferrara (FE), Italy
Level in national or international classification	Second Level Master
Dates	04/2012 – 10/2012
Type of qualification awarded	Research Internship in Physics
Principal subjects/occupational skills covered	Simulations with micromagnetic codes regarding multicomponent magnonic crystals
Name and type of organisation providing education and training	Department of Physics and Earth Sciences Università di Ferrara Via Savonarola 9, 44121 Ferrara (FE) (Italy)
Dates	09/2009 - 03/2012
Title of qualification awarded	Master's Degree in Physical Sciences 110/110. Curriculum in Physics and Technology of Materials
Principal subjects/occupational skills covered	Master's Thesis "Spin dynamics in arrays of ferromagnetic antidot lattices", concerning the theoretical study of collective excitations in 2D arrays of antidote as a function of the wave vector and the external magnetic field using micromagnetic and analytical approaches.
Name and type of organisation providing education and training	Università degli Studi di Ferrara Via Savonarola 9, 44121 Ferrara (FE), Italy

Level in national or international classification | ISCED 5a

Dates 09/2005 - 03 /2009

Title of qualification awarded Bachelor's Degree in Physical and Astrophysical Sciences 96/110.

Principal subjects/occupational skills covered Bachelor's Degree Thesis " Modi di spin in dischi ed anelli magnetici nello stato a vortice", concerning the theoretical study of spin waves in magnetic dot in a vortex state.

Name and type of organisation providing education and training Università degli Studi di Ferrara
Via Savonarola 9, 44121 Ferrara (FE) (Italy)

Level in national or international classification | ISCED 5

Dates 09/1999 - 06/2005

Title of qualification awarded High school specialized in scientific subjects curriculum P.N.I.(68/100)

Name and type of organisation providing education and training Liceo Scientifico Statale (A. Roiti),
Via Leopardi, 64 41034 Ferrara (Fe) Italy

Level in national or international classification | ISCED 3

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			
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(*) *Common European Framework of Reference (CEF) level*

Social and organisational skills Competences	<ul style="list-style-type: none"> - Problem solving attitude; - End-oriented work capacity; - Multi tasking, ability to work out several problems simultaneously with order;
Computer skills and competences	<ul style="list-style-type: none"> - Programming language: C, Python, Igor, Origin and Mathematica; - Operating system: Windows™ and LINUX; - Personal productivity software (Microsoft Office™ Word™, Excel™, PowerPoint™); - Micromagnetic software: OOMMF and DMM (micromagnetic code based on Fortran).
Driving licence	B

Additional information

PUBLICATIONS IN JOURNALS AND CONFERENCE PROCEEDINGS:

- 1) G. Gubbiotti, P. Malagò, S. Fin, S. Tacchi, L. Giovannini, D. Bisero, M. Madami, G. Carlotti, J. Ding, A. O. Adeyeye, and R. Zivieri "Magnetic normal modes of bi-component permalloy/cobalt structures in the ferromagnetic and antiferromagnetic state", *Physical Review B* **90**, 024419 (2014).
- 2) P. Malagò, L. Giovannini and R. Zivieri, "Effective properties of a binary magnonic crystal" , in Proceedings of the 8th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2014, Copenhagen, Denmark, 25-30 August 2014
- 3) R. Zivieri, P. Malagò, and L. Giovannini, "Band structure of collective modes and effective properties of binary magnonic crystals", *Photon. Nanostruct.: Fundam. Appl.* (2014), <http://dx.doi.org/10.1016/j.photonics.2014.04.001>.
- 4) R. Zivieri, P. Malagò, L. Giovannini, S. Tacchi, G. Gubbiotti, A. O. Adeyeye "Soft magnonic modes in two-dimensional permalloy antidot lattices" *JOURNAL OF PHYSICS: CONDENSED MATTER* **25** 336002 (2013).
- 5) R. Zivieri and P. Malagò, "Metamaterial properties of a three-dimensional permalloy/cobalt binary system", in Proceedings of the 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics p.439-441– Metamaterials 2013, Bordeaux, France, 16-21 September 2013 .

ACCEPTED PAPERS:

- 1)P. Malagò, L. Giovannini and R. Zivieri, "Perpendicularly Magnetized Antidot Lattice as a Two-Dimensional Magnonic Metamaterial" In stampa in Proceedings of the 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2015, Oxford, United Kingdom, 7-12 September 2015

SUBMITTED PAPERS:

- 1)P. Malagò et al. "Two-dimensional binary magnonic crystals – the influence of the non-magnetic spacer", submitted to PRB.

CONFERENCE PRESENTATIONS:

- 1)Poster presentation: P. Malagò, L. Giovannini and R. Zivieri, "Metamaterial description of perpendicularly magnetized 2D antidot lattices", Magnet 2015 - IV Conference of the Italian Magnetism Association, National conference, Bologna, Italy, 17-19 February 2015, AIMagn (Associazione Italiana di Magnetismo)
- 2) Poster presentation: P. Malagò, L. Giovannini and R. Zivieri, "Effective properties of a binary magnonic crystal" , in Proceedings of the 8th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2014, Copenhagen, Denmark, 25-30 August 2014
- 3) Poster presentation: P. Malagò, G. Gubbiotti, S. Tacchi, R. Zivieri, L. Giovannini, M. Madami, and G. Carlotti "Magnetic normal modes in ferromagnetic and antiferromagnetic state bi-component periodic system"
Physics of Magnetism PM'14, Poznan, Poland 23-27 June 2014
- 4) Oral presentation: P. Malagò, R. Zivieri, L. Giovannini "Magnonic modes in three-dimensional permalloy/cobalt binary systems"
58th Annual Conference on Magnetism and Magnetic Materials, International conference, Denver USA, 4-8 November 2013, AIP Publishing & IEEE Magnetics Denver, USA

5) Poster presentation: R. Zivieri, P. Malagò, L. Giovannini "Metamaterial properties of three-dimensional permalloy/cobalt magnonic crystals"

7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics III-101-1-3 (2013)– Metamaterials 2013, Bordeaux, France, 16-21 September 2013, International conference. University of Bordeaux, IdEx and LabEx Amadeus Bordeaux, France

6)Poster presentation: R. Zivieri, P. Malagò "Metamaterial description of magnonic modes along ΓM direction in a 2D antidot lattice" 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics III-101-1-3 (2013)– Metamaterials 2013, Bordeaux, France, 16-21 September 2013, International conference. University of Bordeaux, IdEx and LabEx Amadeus Bordeaux, France

7)Poster presentation: R. Zivieri, P. Malagò, L. Giovannini "Size effects on spin dynamics in 2D ferromagnetic antidot lattices" , 9th International Symposium on Hysteresis Modelling and Micromagnetics, International conference, Taormina, Italy, 13-15 May 2013, IEEE Magnetics Italian Chapter & Magnetism Research Group, University of Messina, Italy Taormina, Italy

8)Oral presentation: P. Malagò, R. Zivieri, L. Giovannini "Size Effects on Spin-wave Modes in Ferromagnetic Antidot Lattices" Magnet 2013 - III Convegno Nazionale di Magnetismo, National conference, Napoli, Italy, 20-22 February 2013, AIMagn (Associazione Italiana di Magnetismo)

Ph.D. SCHOOLS:

1) "Italian School on Magnetic Materials for Energy Applications" February, 11-14, 2014, Parma (Italy).

2) "Bottom-up Metamaterials, EUPROMETA- European Doctoral Programmes on Metamaterials", September, 20-21,2013, Bordeaux (France).

3) "International Advanced School on magnonics", September, 3-7 2012, Santa Margherita Ligure (Italy).

La sottoscritta acconsente, ai sensi del D. Lgs. 30/06/2003 n. 196, al trattamento dei propri dati personali e alla pubblicazione del presente curriculum vitae sul sito dell'Università di Ferrara.



