






PERSONAL INFORMATION

Alessandra Continenza



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Sex Female | Date of birth Jan. the 9th 1959 | Nationality Italian

WORK EXPERIENCE

2018-present	Full Professor at Department of Physical and Chemical Sciences – Università degli studi dell'Aquila
2000-2018	Associate Professor at Physics Department – Università degli studi dell'Aquila
2007	Guest Professor at University of Vienna
1990-2000	Research Assistant at Physics Department – Università degli studi dell'Aquila
1990	Post-doctorate position at Physics Department – Northwestern University, Evanston (IL, USA)
1985-1990	Grant from the Italian Ministry of Education and Research Associate at
1985-1990	Material Research Center – Northwestern University, Evanston (IL, USA)
1985	Appointed as Physics teacher at high school (winner of a national competition)
1983-1984	Researcher at R&D laboratory at ITALTEL (Milan, Italy)
1982-1983	Software analyst at ITALSIEL (Rome, Italy)

EDUCATION AND TRAINING

June 1990	Ph. D. (Doctor of Philosophy field of Physics) Northwestern University, Evanston (IL, USA)
Oct. 1982	Laurea in Physics (degree in Physics, maximum score 110/110 cum laude) Università degli studi dell'Aquila

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A2	C1	A2	B1	B1

Communication skills

- Professor of Physics (basic, bachelor courses and advanced courses in Condensed Matter Physics)
- Guest Professor of PhD courses at University of Vienna and several International schools (Magnetism and Superconductivity)

Organisational / managerial skills

- Member of editorial boards of different Journals (Journal of Magnetism and Magnetic Materials 2009-2015, Heliyon (Elsevier), Journal of Magnetism of the Korean Magnetism Society), Europhysics Letters
- Member of the International Advisory Board of the Korean Magnetism Society
- Coordinator of the local (univAQ) Research unit of CNISM (Italian Inter.university consortium for Condensed Matter Physics)
- Expert member of the Physics Panel for the EU commission (EU –Marie Skłodowska Curie Actions)
- Outstanding referee of the American Physical Society
- Member of the International Advisory Committee of the International Conference of Magnetism (ICM 2012, ICM 2015, ICM 2018)
- Chair of the study board in Physics at Università degli studi dell'Aquila (term: 2012-2018)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user		Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Other skills

- Principal Investigator of several research projects:
- EU-DEISA projects
- Italian PRIN (Research project of National Interest – Ministry of Education): 2005, 2007, 2013

ADDITIONAL INFORMATION

Research Fields

First principles studies of electronic structure and energetics in bulk materials, interfaces and surfaces.

- Semiconductor/semiconductor and metal/semiconductor interfaces: potential barrier and band lineups at heterojunctions and their dependence on substrate and epitaxial strain, ordering direction and intrinsic polarization. Possible tuning of ad hoc electronic properties for device applications.
- Superconductivity: ab-initio study of electronic properties of several different compounds (high temperature compounds, as well as conventional superconductors) and effects of dopants and substitutions.
- Application and extension of density functional theory to the superconducting state.
- Electronic and magnetic properties of magnetic semiconductors and their dependence on compositions and magnetic alignment.

Citations

- More than 150 publications in Condensed Matter Physics Journals
- More than 40 conferences (invited and participations)
- Citation index (h-index = 35 Scopus, WoS); more than 6000 citations

Didactic activity

- General Physics courses for Engineering school at bachelor level
- Master courses on Condensed Matter Physics (Solid State Physics, Condensed Matter Physics, Molecular and atomic Physics)

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ANNEXES

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