

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name	DONATI PAOLA
E-mail	donati.paola@ic-codogno.it ; paola.donati6@posta.istruzione.it
Nationality	Italian
Date of birth	09/06/1966

WORK EXPERIENCE

• Dates (from – to)	1 SEPTEMBER 2017-TODAY
• Name and address of employer	Italian Ministry for Education, Universities and Research
• Type of business or sector	Teaching
• Occupation or position held	Full professor at middle school IC-CODOGNO, via Cavour 24, 26845 CODOGNO, Italy
• Main activities and responsibilities	Math and science teacher, math and science teacher coordinator, class coordinator <u>Math</u> : Calculus , Geometry, Algebra, Statistic and Probability <u>Science</u> : Biology, Chemistry, Physics, Geology and Astronomy
• Dates (from – to)	1 SEPTEMBER 2012- 31 AUGUST 2017
• Name and address of employer	Italian Ministry for Education, Universities and Research
• Type of business or sector	Teaching
• Occupation or position held	Full professor at middle school IC-LIBERTA', via Agadir n 7, 20097 San Donato Milanese
• Main activities and responsibilities	Math and science teacher, class coordinator <u>Math</u> : Calculus , Geometry, Algebra, Statistic and Probability <u>Science</u> : Biology, Chemistry, Physics, Geology and Astronomy
• Dates (from – to)	1 SEPTEMBER 2011- 31 AUGUST 2012
• Name and address of employer	High School Istituto Gonzaga , via Vitruvio 41, 20125 Milano
• Type of business or sector	Teaching
• Occupation or position held	Fixed term professor
• Main activities and responsibilities	Math and physics teacher <u>Math</u> : Functions and Integrals , Geometry, Algebra, Statistics and Probability <u>Physics</u> : Mechanics, Kinematics, Thermodynamic, Electromagnetism
• Dates (from – to)	1 September 2010- 31 August 2011
• Name and address of employer	High School Salesiani Don Bosco, via Tonale 19, 20125 Milano
• Type of business or sector	Math and Physics teacher
• Occupation or position held	Fixed term professor
• Main activities and responsibilities	Teaching math and physics <u>Math</u> : Functions and Integrals , Geometry, Algebra, Statistics and Probability <u>Physics</u> : Mechanics, Kinematics, Thermodynamic, Electromagnetism

• Dates (from – to)	1 September 2005- 31 August 2010
• Name and address of employer	Centro scolastico paritario, liceo classico FAES-MONFORTE
• Type of business or sector	Math, Science and Physics teacher
• Occupation or position held	Full professor
• Main activities and responsibilities	Teaching math and physics at high school and math and science at middle school <u>Math</u> : Calculus, Functions and Integrals , Geometry, Algebra, Statistic and Probability <u>Physics</u> : Mechanics, Kinematics, Thermodynamic, Electromagnetism <u>Science</u> : Biology, Chemistry, Physics, Geology and Astronomy
• Dates (from – to)	FEBRUARY 1999 - OCTOBER 2006
• Name and address of employer	Università Statale degli Studi di Milano, Dipartimento di Fisica, via Celoria 16, 20133 Milano
• Type of business or sector	Research and Teaching
• Occupation or position held	Research fellow
• Main activities and responsibilities	<u>Research</u> : nuclear physics, astrophysics <u>Teaching</u> : • Physics for natural science degree (2000/2001), • Physics for digital communication degree (2001/02, 2002/03) • Physical method applied to biotechnology (2005/06, 2006/07)

EDUCATION AND TRAINING

• Dates (from – to)	September 2004-May 2007
• Name and type of organisation providing education and training	Scuola di specializzazione per l'insegnamento secondario, sezione di Milano Apprenticeship at the Istituto Gonzaga of Milano
• Principal subjects/occupational skills covered	Math and Physics for high school (A038, A049,A047,A048) Math and Science for middle school (A059)
• Title of qualification awarded	Teaching qualification
• Dates (from – to)	September 1994 - July 1998
• Name and type of organisation providing education and training	Niels Bohr Institute, University of Copenhagen, Danimarca
• Principal subjects/occupational skills covered	<u>Research</u> : Nuclear physics, deformed nuclei, complex mathematics applied to physics, superfluidity. <u>Teaching</u> :Quantum mechanics at the Physics department of the Copenhagen University (1996/1997)
• Title of qualification awarded	PhD in Physics, Copenhagen 28/07/1998 Title of dissertation: “ <i>Self-Energies of Single-Particle States in Deformed Nuclei Generated by Dynamical Coupling to the Surface</i> ” Main supervisor: Prof. T. Døssing
• Level in national classification (if appropriate)	
• Dates (from – to)	September 1986 - May 1993
• Name and type of organisation providing education and training	Università Statale degli Studi di Milano, Dipartimento di Fisica, via Celoria 16, 20133 Milano
• Principal subjects/occupational skills covered	Nuclear physics, Supernovae physics, many-body applications, pairing and superfluidity.
• Title of qualification awarded	Graduation in physics, Milano 24/05/1993 Title of dissertation: “Studio della massa efficace nucleonica in funzione della temperatura” Main supervisor: Prof. R.A. Broglia
• Level in national classification (if appropriate)	106/110

• Dates (from – to)	September 1981 - July 1986
• Name and type of organisation providing education and training	Istituto magistrale Colombini di Piacenza
• Principal subjects/occupational skills covered	Education, Teaching, Pedagogy, Psicology
• Title of qualification awarded	High school diploma
• Level in national classification (if appropriate)	60/60

PERSONAL SKILLS AND COMPETENCES <i>Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.</i>	
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MOTHER TONGUE	ITALIAN
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OTHER LANGUAGES	
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	ENGLISH-B2 CERTIFICATION AT MILANO BRITISH COUNCIL 2011
• Reading skills	GOOD
• Writing skills	GOOD
• Verbal skills	GOOD

SOCIAL SKILLS AND COMPETENCES <i>Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.</i>	Graduate and PhD thesis Co-supervisor for italian students Research work in international group Partecipation to scientific conference for lecture speech Good attitude to collaborate with people since the university career, working in different groups in research and teaching activities, to always get the best results
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ORGANISATIONAL SKILLS AND COMPETENCES <i>Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.</i>	Organized and determined person in pursuit of goals and meeting deadlines Coordination of a group of teachers to realize annual objectives, Ability to analyze a problem, develop a suitable strategy and display independent thought Predisposition to precision and attention to details thanks to a dynamic character aimed at curiosity, trying to give the best contribution on every occasion.
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TECHNICAL SKILLS AND COMPETENCES <i>With computers, specific kinds of equipment, machinery, etc.</i>	Competence in the use/programming of the following software: Software: MS OFFICE (word, powerpoint,excel), OpenOffice,Paint, Dplot5,Icream, MovieMaker, gnuplot,Lumi, Mathomir, Quizfaber Programming Software: Fortran, Python, HTML (basi level), PHP(basic level) , H5P (basic level) Mathematical Software: Geogebra, Mathematica
ARTISTIC SKILLS AND COMPETENCES <i>Music, writing, design, etc.</i>	Play piano as an amateur
OTHER SKILLS AND COMPETENCES <i>Competences not mentioned above.</i>	
DRIVING LICENCE(S)	Italian licence B

ADDITIONAL INFORMATION

Grants/Scholarship

- September 1996-February 1999: Marie Curie Fellowships and European-funded research training at the Niels Bohr Institute, Copenhagen, Denmark
- September 1994-February 1996: Università degli Studi di Milano Fellowship at the Niels Bohr Institute, Copenhagen, Denmark

Conference/Workshop/School

- 1) May 9-10 2002: SPES Meeting, Legnaro (Padova).
- 2) November 26-29 1999: Euroball Workshop, Strasburgo (Francia). Lecture speech: "Effective mass in deformed nuclei".
- 3) January 1999: Guest at the Fukuoka Department of Nuclear Physics (Japan). Lecture speech: "Effective mass in deformed nuclei".
- 4) May 11-16 1998: GR98 Topical Conference on Giant Resonances, Varenna (Italia). Lecture speech: "Self-energy in deformed nuclei".
- 5) March 23-April 4 1998: Workshop on Mean-Field Methods in Low-Energy Nuclear Structure, Trento (Italia). Lecture speech: "Self-energy in deformed nuclei".
- 6) July-August 1997: Guest at the E.O. Lawrence Berkeley National Laboratory, Berkeley (California). Lecture speech: "Self-energy of single particle states".
- 7) June 9-21 1997: VI Hispalensis International Summer School, Sevilla (Spagna). Lecture speech: "Effective mass in deformed nuclei".
- 8) February 20-March 1 1995: Workshop on Nuclear Structure at finite temperature, Trento (Italia). Lecture speech: "Effective mass as a function of temperature".

1. Fantina, A. F.; Margueron, J.; Donati, P.; Pizzochero, P. M., "**Nuclear energy functional with a surface-peaked effective mass: global properties**", *Journal of Physics G* vol. 38 (2011) 025101 (17 pp);
2. Fantina, A. F.; Donati, P.; Pizzochero, P. M., "**Systematic thermal reduction of neutronization in core-collapse supernovae**", *Physics Letters B* vol. 676 (2009) pp 140-145;
3. Donati, Paola; Pizzochero, Pierre M., "**Realistic energies for vortex pinning in intermediate-density neutron star matter**", *Physics Letters B* 640 (2006) pp 74-81
4. P. Donati, G. Gori, F. Barranco, R. A. Broglia and E. Vigezzi, "**Effective pairing interaction induced by polarization effects in deformed nuclei**", *J. Phys. G: Nucl. Part. Phys.* 31 (2005) pp 295-307;
5. Donati, Paola; Pizzochero, Pierre M., "**Fully consistent semi-classical treatment of vortex-nucleus interaction in rotating neutron stars**", *Nuclear Physics A* 742 (2004) pp 363-379;
6. P. Donati and P. M. Pizzochero, "**Is There Nuclear Pinning of Vortices in Superfluid Neutron Stars?**", *Physical Review Letters* vol. 90 (2003) 211101 (4pp);
7. Y. R. Shimizu, P. Donati and R. A. Broglia, "**Response Function Technique for Calculating the Random-Phase Approximation Correlation Energy**", *Physical Review Letters* vol. 85 (2000) pp 2260-2263;
8. P. Donati, T. Døssing, Y. R. Shimizu, S. Mizutori, P. F. Bortignon and R. A. Broglia, "**Effective nucleon mass in deformed nuclei**", *Physical Review Letters* vol. 84 (2000) pp 4317-4320;
9. N. Giovanardi, P. Donati, P. F. Bortignon and R. A. Broglia, "**Single-particle self-energy in many body systems at Finite Temperature**", *Annals of Physics* vol. 283 (2000) pp 308-333;
10. P. F. Bortignon, G. Colò and P. Donati, "**Description of Nuclear Excitations beyond Mean Field**", *Acta Physica Polonica* vol. 31 (2000) pp 335-343;
11. P. F. Bortignon, G. Colò, P. Donati, N. Giovanardi and R. A. Broglia, "**Beyond Mean Field Theory at Zero and Finite Temperature**", *Proceeding of the International Symposium on Quasiparticle and Phonon Excitations in Nuclei*, Riken Wako anno 1999, edita da N. Dinh Dang and A. Arima, World Scientific anno 1999, pp 29
12. P. Donati, T. Døssing, Y. R. Shimizu, P. F. Bortignon and R. A. Broglia, "**Nucleon-phonon coupling in hot, rapidly rotating nuclei (I)**", *Nuclear Physics* vol. A653 (1999) pp 225-247;
13. P. Donati, T. Døssing, Y. R. Shimizu, P. F. Bortignon and R. A. Broglia, "**A complex integration technique to remove spurious states associated with spontaneously broken symmetries in RPA calculations**", *Nuclear Physics* vol. A653 (1999) pp 27-44;
14. P. Donati, T. Døssing, Y. R. Shimizu, P. F. Bortignon and R. A. Broglia, "**Self-Energy of Single-Particle States in Deformed, Rapidly Rotating Nuclei**", *Nuclear Physics* vol. A649 (1999) pp 25c-28c;
15. P. F. Bortignon, R. A. Broglia, P. Donati and N. Giovanardi, "**The coupling to doorway states and to compound states in warm nuclei**", edita da RIKEN Review volume 23 anno 1999 pp 27-32 ;
16. P. Donati, N. Giovanardi, P. F. Bortignon and R. A. Broglia, "**Damping of nuclear motion in hot nuclei**", *Physics Letters* vol. B383 (1996) pp 15-18;
17. P. Donati, P. F. Bortignon and R. A. Broglia, "**Temperature dependence of the damping width of single-particle states in hot nuclei**", *Zeitschrift für Physics* vol. A354 (1996) pp 249-252;
18. P. Donati, P. M. Pizzochero, P. F. Bortignon and R. A. Broglia, "**Temperature dependence of the nucleon effective mass and the physics of the stellar collapse**", *Physical Review Letters* vol. 72 (1994) pp 2835-2838;
19. R. A. Broglia, P. M. Pizzochero, P. Donati, P. F. Bortignon, "**Temperature Dependence of the Shell Model and Supernova Explosions**" *Proceeding of the International School of Heavy Ion Physics, 3rd Course: Probing the Nuclear Paradigm with Heavy Ion Reactions*, Erice, Italy 6-16 Ottobre 1993, edita da : R. A. Broglia, P. Kienle e P. F. Bortignon pp 309.