

Curriculum vitae

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PERSONAL INFORMATION Bruno Rubino

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bruno.rubino@univaq.it

Nationality Italian

POSITION Professor of Mathematical Analysis and Vice Rector for International Affairs - University of L'Aquila, Italy

WORK EXPERIENCE

28/02/1994–29/11/1994	University research assistant University of Bari, Bari (Italy)
30/11/1994–31/10/1998	University research assistant University of L'Aquila, L'Aquila (Italy)
01/11/1998–31/08/2001	Associate Professor of Mathematical Analysis University of L'Aquila, L'Aquila (Italy)
01/09/2001-Present	Full Professor of Mathematical Analysis University of L'Aquila, L'Aquila (Italy)
01/01/2004–15/05/2012	Head of the Division of Mathematics for Engineering Department of Pure and Applied Mathematics - University of L'Aquila, L'Aquila (Italy)
01/11/2004–31/10/2012	Coordinator of the MSc Programme in Mathematical Engineering University of L'Aquila, L'Aquila (Italy)
01/11/2005–31/10/2015	Coordinator of the PhD Programme in Mathematical Modelling for Engineering University of L'Aquila, L'Aquila (Italy)
01/10/2013–11/04/2018	Head of the Department of Information Engineering, Computer Science and Mathematics University of L'Aquila, L'Aquila (Italy)
15/10/2019–Present	Vice Rector for International Affairs University of L'Aquila, L'Aquila (Italy)
01/09/2022–Present	Co-Leader of Spoke 5 (Environment and natural disaster) of the "National High-Performance Computing, Big Data e Quantum Computing Research Centre" (ICSC Foundation) – certified email: consorziohpc4dr@legalmail.it Established to create a centre of expertise for the reduction of risks related to disasters due to natural or man-made phenomena, characterised by the use of high-performance computing technology infrastructure, the HPC4DR Consortium brings together leading public research organisations (CNR National Research Council, INAF National Institute of Astrophysics, INFN National Institute of Nuclear Physics, INGV National Institute of Geophysics and Vulcanology) and universities in the regions of Abruzzo, Marche and Molise (Gran Sasso Science Institute, University of L'Aquila, University of Molise, University of Camerino, University of Macerata, University of Urbino Carlo Bo, University "G. d'Annunzio" of Chieti-Pescara, Polytechnic University of Marche).
07/11/2022–Present	Member of the Scientific Committee of the Consortium "HPC4DR – High- Performance Computing for Disaster Resilience" Co-Leader of Spoke 5 (Environment and natural disaster) of the "National High-Performance



Computing, Big Data e Quantum Computing Research Centre" (ICSC Foundation) – website: <u>www.supercomputing-icsc.it/en</u>

The High-Performance Computing, Big Data e Quantum Computing Research Centre, created and managed by the ICSC, is one of the five Italian National Centres established by the National Recovery and Resilience Plan (NRRP), covering designated strategic sectors for the development of the country: i.e., simulations, computing, and high-performance data analysis, Agritech, development of gene therapy and drugs via RNA technology, sustainable mobility, biodiversity. Total investment: 319.938.979,26 €

01/09/2008–06/09/2019 (cohorts 2008-2017) Coordinator of the Erasmus Mundus Joint Master in Mathematical Modelling in Engineering: Theory, Numerics, Applications (MathMods) – website: www.mathmods.eu

> MathMods Consortium (University of L'Aquila, Italy - coordinating institution; University of Hamburg, Germany; University of Nice - Sophia Antipolis, France; Autonomous University of Barcelona, Catalonia, Spain; Gdansk University of Technology, Gdansk, Poland) Since its establishment the MathMods consortium was funded through the Erasmus Mundus Programme: in 2008 funding was granted for five cohorts under the Framework Partnership Agreement - FPA 2008-0100 and then again in 2013 (Framework Partnership Agreement - FPA 2013-0227) for five additional cohorts.

10/09/2018–31/03/2022 Coordinator of the European Joint Master Programme in Mathematical (cohorts 2018-2021) Modelling in Engineering: Theory, Numerics, Applications (MathMods) – website: www.mathmods.eu

MathMods Consortium (University of L'Aquila, Italy - coordinating institution; University of Hamburg, Germany; Vienna University of Technology, Austria; University of Côte d'Azur, France)

08/09/2014–29/02/2024 Coordinator of the International Joint Master's Programme in Applied and (cohorts 2014-2021) Interdisciplinary Mathematics (InterMaths Double Degree)

InterMaths Double Degree Consortium (University of L'Aquila, Italy - coordinating institution; Brno University of Technology, Czech Republic; University of Silesia in Katowice, Poland; Ivan Franko National University of Lviv, Ukraine; Gdansk University of Technology, Poland; V.N. Karazin Kharkiv National University, Ukraine - since 2017; Taras Shevchenko National University of Kyiv, Ukraine - since 2018; Karlstad University, Sweden - since 2019; University of Aveiro, Portugal – since 2020; York University, Canada – since 2021)

01/07/2022–Present Coordinator of the International Double MSc in Mathematics for Real World Applications (RealMaths) – website: www.realmaths.eu

RealMaths Consortium (University of L'Aquila, Italy - coordinating institution; York University, Canada; Brno University of Technology, Czech Republic; Kwame Nkrumah University of Science and Technology, Ghana; National Institute for Mathematical Sciences, Ghana; Gdańsk University of Technology, Poland; Silesian University of Technology, Poland; University of Aveiro, Portugal; Karlstad University, Sweden; Ivan Franko National University of Lviv, Ukraine; Lviv Polytechnic National University, Ukraine; Odessa National I.I. Mechnikov University, Ukraine; State University 'Uzhhorod National University', Ukraine; Taras Shevchenko National University of Kyiv, Ukraine; V.N. Karazin Kharkiv National University, Ukraine; Ton Duc Thang University, Vietnam)

01/07/2022–Present Coordinator of the Erasmus Mundus Joint Master Degree Interdisciplinary Mathematics (InterMaths) – website: www.intermaths.eu InterMaths Consortium (University of L'Aquila, Italy - coordinating institution; Vienna University of Technology, Austria; Hamburg University of Technology, Germany; Autonomous University of Barcelona, Spain; University of Côte d'Azur, France) The consortium is funded throw the Erasmus Mundus Programme for four cohorts: 2021-2024

06/07/2008–30/04/2010 Coordinator of the Erasmus Intensive Programme Mathematical Models in Life and Social Sciences University of L'Aquila, L'Aquila (Italy)



04/07/2011-04/07/2014	Coordinator of the Erasmus Intensive Programmes
	Mathematical Models in Seismology & Modelling Earthquakes
	University of L'Aquila, L'Aquila (Italy)
23/06/2014–04/07/2014	Coordinator of the Erasmus Intensive Programme Mathematical models for social innovation
	University of L'Aquila, L'Aquila (Italy)

EDUCATION AND TRAINING

	05/11/1986–15/11/1990	MSc in Mathematics University of Pisa, Pisa (Italy)	EQF 7	level
	16/11/1990–30/09/1991	Research Training Programme Istituto Nazionale di Alta Matematica, Rome (Italy)		
	01/10/1991–31/12/1991	PhD in Mathematics Paris-Sud University, Orsay, Paris (France) Scholarship provided by Istituto Nazionale di Alta Matematica, Rome, Italy		
0	1/01/1992–27/02/1994	PhD in Mathematics Scuola Normale, Pisa (Italy)		

Mother tongue(s) Italian

	UNDERSTANDING		SPEAKING		WRITING			
Foreign Janguage(s)	Listening	Reading	Spoken interaction	Spoken production				
English	B2	C1	B1	B2	B2			
French	A2	A2	A1	A1	A1			
	Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages							
Driving licence	В							
ADDITIONAL INFORMATION								
Honours and awards	wards Benedetto Sciarra Prize for the best Master's Thesis of the Scuola Normale - Pisa, Italy, 1991							
SELECTED RECENT PUBLICATIONS	 F. Di Michele, E. Stagnini, D. Pera, B. Rubino, R. Aloisio, A. Askan, P. Marcati (2 Comparison of machine learning tools for damage classification: the case of L'Aquila earthquake. NATURAL HAZARDS, vol. 116, p. 3521 – 3546, ISSN 0921030X, 10.1007/s11069-023-05822-4 							
	 S. Mashchenko, O. Kapustian, B. Rubino (2023). On Kemeny Optimization Scheme for Fuzzy Set of Relations. AXIOMS, vol. 12(12), 1067; doi: 10.3390/axioms12121067 							
	 O. Kapustyan, O. Kapustian, I. Korol, B. Rubino (2023). Uniform attractor of impulse-perturbed reaction-diffusion system. MATHEMATICS AND MECHANICS OF COMPLEX SYSTEMS, vol. 11, p. 45-55, ISSN: 23267186, doi: 10.2140/memocs.2023.11.45 							
	 F. Di Michele, A. Styahar, D. Pera, R. Aloisio, B. Rubino, P. Marcati (2022). Fault shape effect on SH waves using finite element method. JOURNAL OF SEISMOLOGY, vol. 26, p. 417- 437, ISSN: 13834649, doi: 10.1007/s10950-022-10075-y 							
	 F. Di Michele, J. May, D. Pera, V. Kastelic, M. Carafa, C. Smerzini, I. Mazzieri, B. Rubino, P. F. Antonietti, A. Quarteroni, R. Aloisio, P. Marcati (2022). Spectral elements numerical simulation of the 2009 L'Aquila earthquake on a detailed reconstructed domain. 							



GEOPHYSICAL JOURNAL INTERNATIONAL, vol. 230, p. 29-49, ISSN: 0956540X, doi: 10.1093/gji/ggac042

- Y. Jiang, B. Rubino, K. Zhang (2022). Asymptotic behavior of solutions for time-delayed nonlocal dispersion equations with Dirichlet boundary. APPLICABLE ANALYSIS, vol. 101, p. 5684 – 5699, ISSN: 00036811, doi: 10.1080/00036811.2021.1903444
- F. Di Michele, B. Rubino, R. Sampalmieri (2022). Stationary solutions for a new hybrid quantum model for semiconductors with discontinuous pressure functional and relaxation time. MATHEMATICS AND MECHANICS OF SOLIDS, vol. 27, p. 2189-2200, ISSN: 10812865, doi: 10.1177/10812865221105812
- F. Di Michele, M. Mei, B. Rubino, R. Sampalmieri (2019). Stationary solutions for a new hybrid quantum model for semiconductors with discontinuous pressure functional and relaxation time. MATHEMATICS AND MECHANICS OF SOLIDS, vol. 24, p. 2096-2115, ISSN: 1081-2865, doi: 10.1177/1081286518814289
- I. Dyyak, B. Rubino, Y. Savula, A. Styahar (2019). Numerical analysis of heterogeneous mathematical model of elastic body with thin inclusion by combined BEM and FEM. MATHEMATICAL MODELING AND COMPUTING, vol. 6, p. 239-250, ISSN: 23129794, doi: 10.23939/mmc2019.02.239

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV
