

Curriculum vitae

PRESENT APPOINTMENTS

Full Professor in Applied Mathematics, University of Messina, from 2011.

PREVIOUS APPOINTMENTS

Researcher at the University of Messina, from 1994 to 2000.

Associate Professor in Applied Mathematics, University of Messina, from 2000 to 2011.

ACADEMIC QUALIFICATIONS

Mathematics Degree, University of Messina, 1984.

D. Phil. in Mathematics, Universities of Messina-Catania-Palermo, 1990.

Post-Doctoral Fellow, Department of Mathematics, University of Messina 1992-1994

TEACHING ACTIVITIES

Practical Courses

1. Calculus, University of Messina, from 1994 to 1999.
2. Mathematical Physics, University of Messina, from 1995 to 1999.
3. Mathematical Methods in Engineering Science, University of Messina, from 1995 to 1998.

Theoretical Courses

1. Mathematical Methods in Engineering Science, University of Messina, from 1998 to 2003.
2. Mechanics, University of Messina, from 1999.
3. Calculus, University of Messina, from 2001.
4. Mathematical Methods in Applied Sciences, University of Messina from 2010 to 2011.
5. Mathematical Physics, University of Messina, from 2012.
6. Analytical Mechanics, university of Messina, from 2018.

RESEARCH PROJECTS

Professor Currò participated to several Research Project. In particular:

- MURST COFIN 2000 (national coordinator Prof. T. Ruggeri, University of Bologna);
- PRA 2000-2001 of University of Messina (coordinator Prof. D. Fusco, University of Messina);
- PRA 2002-2003 of University of Messina (coordinator Prof. N. Manganaro, University of Messina);
- PRA 2004 of University of Messina (coordinator Prof. F. Oliveri, University of Messina);
- PRIN 2003 of University of Messina (coordinator Prof. G. Maschio, University of Messina);
- INDAM 2003 (coordinator Prof. A. Quarteroni, University of Milano);
- MURST COFIN 2003 (national coordinator Prof. T. Ruggeri, University of Bologna);
- MIUR COFIN 2005 (national coordinator Prof. T. Ruggeri, University of Bologna);
- MIUR COFIN 2010/11 (national coordinator Prof. C. Serpico, University of Naples);
- MIUR PRIN 2017 no. 2017YBKNCE (Coordinatore M. Sammartino, University of Palermo);
- DAS PHANTOMSHIFFE PON F/190001/01-03/X44 (coordinator Prof. Proverbio Edoardo);
- ARS01_00334 PON 2014-2020 NAUSICA (coordinator Prof.ssa Milone Candida).

She was coordinator of the projects PRA 2005, PRA 2006-07 and PRA 2008-09 of University of Messina.

RESEARCH ACTIVITIES

Professor Currò is a member of Italian National Group of Mathematical Physics (GNFM).

She is author of more than 50 scientific publications concerning non linear wave propagation and mathematical modelling of evolution phenomena within the framework of Continuum Mechanic. The main contributions concern with:

- Nonlinear Wave Propagation (Generalized Simple Waves Interactions, Acceleration Waves, Shock Waves, Asymptotic Methods).
- Group Analysis of Partial Differential Equations (Reduction techniques to canonical forms for 2x2 quasi-linear hyperbolic systems).
- Mathematical modelling of biological problems, pattern dynamics in hyperbolic reaction transport models.
- Domain wall dynamics in ferromagnetic nanostrips under the action of spin-polarized currents.