

MARIA CLARA NUCCI'S CURRICULUM OF RESEARCH AND TEACHING ACTIVITIES

Education:

[1978] Laurea in Mathematics, 110/110 cum laude, University of Perugia

Working Experience:

- * 1979-1981, C.N.R. Fellow at University of Perugia
- * 1981-August 2005, Tenured University Researcher at University of Perugia
- * 1985 (6 months), Fellow N.A.T.O.-C.N.R. at Georgia Institute of Technology, Atlanta (U.S.A.)
- * 1986-1987, Visiting Professor at Georgia Institute of Technology, Atlanta (U.S.A.)
- * 1989-1990, Visiting Professor at Georgia Institute of Technology, Atlanta (U.S.A.)
- * 1990-1991, Visiting Professor at Georgia Institute of Technology, Atlanta (U.S.A.)
- * 2005-Jan2021, Associate Professor in Mathematical Physics at University of Perugia
- * Feb2021-Oct2022 Full Professor in Mathematical Physics at University of Messina
- * since Oct 12, 2022, Full Professor in Mathematical Physics at University of Bologna

Winner of Competitive Prizes/Grants:

- [1979] Winner of a Fellowship from Italian National Council of Research (C.N.R.)
- [1985] Winner of a Fellowship from N.A.T.O.-C.N.R.
- [2008] Winner of the GNFM (National Group for Mathematical Physics) Visiting Professor Program grant to support one-month visit by Prof. Kilkothur Munirathinam Tamizhmani, Pondicherry University (India).
- [2013] Winner of the Italian National Scientific Qualification for Full Professor position in Mathematical Physics 01/A4 (ex MAT/07)
- [2017] Winner of the National Fund to Finance Base Research Activities (FFABR)
- [2019] Winner of the Italian National Scientific Qualification for Full Professor position in Mathematical Physics 01/A4 (ex MAT/07)

Academic roles at University of Perugia:

Elected Representative of Researchers in the Science College Council; Representative of the Science College Researchers in the University Commission 1988-1996; Elected Representative of the Researchers in the Department of Mathematics Board 1991-1994; Representative of all Departmental Libraries in the Technical Scientific Council of the University Library System 1995-1997; Elected Representative of the Mathematics and Informatics Researchers in the Extended University Senate 1992-1996.

Editorial Board Member of International Scientific Journals:

- * Journal of Mathematical Analysis and Applications (1995-2009)
- * Journal of Nonlinear Mathematical Physics (2005-2020)
- * Open Communications in Nonlinear Mathematical Physics (since 2021)

Reviewer for International Scientific Journals:

Applicable Analysis and Discrete Mathematics; Applied Mathematics and Computation; Applied Mathematics Letters; Celestial Mechanics; Central European Journal of Physics; Ecological Modelling; Il Nuovo Cimento B; International Journal of Theoretical Physics; Journal of Analysis and its Applications; Journal of Applied Mathematics; Journal of Differential Equations; Journal of Engineering Mathematics; Journal of Mathematical Analysis and Applications; Journal of Mathematical Physics; Journal of Nonlinear Mathematical Physics; Mathematical Methods in the Applied Sciences; Mathematical Physics, Analysis and Geometry; Mathematical Review; Mathematics and Computers in Simulation; Nature; Physica D; Physics Letters A; Proceedings of the American Mathematical Society; Proceedings of the Royal Society A; Rendiconti Lincei

Scienze Fisiche e Naturali; Symmetry; The European Physical Journal-Plus; The IMA Journal of Applied Mathematics; Zentralblatt MATH.

Reviewer for International Foundation Awards:

- * International Science Foundation (U.S.A.)
- * Israel Science Foundation
- * German Research Foundation
- * South Africa National Research Foundation

Member of International Research Committees:

*Member of the Mathematics and Computer Science Panel for the Irish Basic Research Grants in 2000 and 2001.

Member of PhD Faculty Boards:

- *XXVIII Cycle "Mathematics and Computer Science for the treatment of Information and Knowledge", University of Perugia, 2012-2015.
- *XXXV Cycle "Mathematics, Computer Science, Statistics", University of Firenze in partnership with University of Perugia and Istituto Nazionale di Alta Matematica "F. Severi" (INDAM), 2019-.

Member of PhD Exam Committees:

- * President of the PhD Exam Committee in Physics XXIV Cycle, University of Roma Tre, 9/2/2012
- * Member of the PhD Exam Committee in Mathematics XXIX Cycle, University of Roma Tre, 2/5/2017

Co-Recipient of Relevant National Interest Scientific Research Grants (PRIN):

1997

- * Strutture ereditarie e strutture topologiche nelle equazioni differenziali e applicazioni.

2001

- * Sistemi integrabili classici e quantistici finito-dimensionali: proprietà strutturali e metodi di soluzione.

2004

- * Nucleosintesi in stelle del braccio asintotico delle giganti: parametri nucleari e verifiche osservative nelle popolazioni stellari antiche e nel sistema solare.

2006

- * Nucleosintesi e Venti Stellari nelle Fasi Evolutive Finali delle Stelle di Massa Piccola e Intermedia.

2010-2011

- * Teorie geometriche e analitiche dei sistemi Hamiltoniani in dimensioni finite e infinite.

Invited Scholar in Residence at the following Universities:

1987

- * Department of Applied Mathematics, University of Waterloo, Waterloo (Canada)

1988

- * Centre de Physique Théorique, Ecole Polytechnique, Paris (France)

1991

- * Centre de Recherches Mathématiques, Université de Montreal, Montreal (Canada)

- * Department of Mathematical Sciences, Loughborough University of Technology, Loughborough (U.K.)

- * Department of Mathematical Sciences, University of Alabama in Huntsville, Huntsville (U.S.A.)

1992

- * Department of Mathematics, University of Exeter, Exeter (U.K.)

- * Institut fuer Angewandte Mathematik, Universitaet Karlsruhe, Karlsruhe (Germany)
1994
- * Department of Mathematics, University of Exeter, Exeter (U.K.)
2000
- * Institut fuer Theoretische Physik, Universitaet Bremen, Bremen (Germany)
2003
- * Department of Mathematics, University of Patras, Patras (Greece)
2015
- * Department of Engineering Sciences and Mathematics, Luleå University of Technology,
Luleå, Sweden
2019
- * School of Information Technology and Mathematical Sciences, University of South Australia,
Mawson Lakes (Australia)

Invited Lecturer at the following Universities/Academies:

- 1991
- * Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago,
Chicago (U.S.A.)
- * Department of Mathematics, University of Messina (Italy)
- * Department of Mathematics, University of Ancona (Italy)
1992
- * Department of Mathematics, University of Trieste (Italy)
- * Department of Mathematics, University of Parma (Italy)
1994
- * Department of Mathematics, University of Catania (Italy)
1997
- * Department of Mathematics, Emory University, Atlanta (U.S.A.)
2001
- * Department of Mathematics, Polytechnic of Torino (Italy)
2008
- * Department of Mathematics for Economic and Social Sciences, University of Bologna (Italy)
2010
- * Department of Mathematics, College of Charleston, Charleston (U.S.A.)
2016
- * Department of Mathematics, Emory University, Atlanta (U.S.A.)
- * Department of Informatics, University of Verona (Italy)
2018
- * Mathematical Institute of the Serbian Academy of Sciences and Arts, Beograd (Serbia)
2020
- * VI Physics Seminars Cycle, Universidade Estadual do Sudoeste da Bahia, Itapetinga (Brasil).

Lecturer at the following Workshops/Congresses:

- 1987
- * 4th Meeting on Waves and Stability in Continuous Media, Taormina (Italy), October 5-10.
1988
- * Conference on Nonlinear Dynamics Bologna (Italy), May 30-June 3.
- * Workshop on Nonlinear Evolution Equations: Integrability and Spectral Methods, Como (Italy),
July 4-15.
- * 12th I.M.A.C.S. World Congress on Scientific Computation, Paris (France), July 18-22.
1989
- * 9th Annual Southeast Atlantic Conference on Diff. Equations, Charlotte (U.S.A.), October 13-14.

1990

* 6th Workshop on Nonlinear Evolution Equations and Dynamical Systems, Dubna (Russia), July 16-26.

* 10th Annual Southeast Atlantic Conf. on Differential Equations, Blacksburg (U.S.A.), Nov 16-17.

1991

* Meeting on Similarity Solutions of Differential Equations, Pittsburgh (U.S.A.), April 26-28.

* N.E.E.D.S. '91, 7th Workshop on Nonlinear Evolution Equations and Dynamical Systems, Gallipoli (Italy), June 19-29.

* 5th Gregynog Symposium on Differential Equations, Gregynog (U.K.), July 8-12.

* 13th I.M.A.C.S. World Congress on Computation and Applied Mathematics, Dublin (Ireland), July 22-26.

1992

* Georgia Tech-UAB International Conference on Differential Equations and Mathematical Physics, Atlanta (U.S.A.), March 22-28.

* First National Congress of the Italian Society of Applied and Industrial Mathematics, Firenze (Italy), June 1-5.

* International Workshop on Modern Group Analysis: advanced analytical and computational methods in mathematical physics, Acireale (Italy), October 27-31.

1994

* A.M.S./M.ACADEMIC YEAR Joint Mathematics Meetings, Cincinnati (U.S.A.), January 12-15.

* 14th I.M.A.C.S. World Congress on Computational and Applied Mathematics, Atlanta (U.S.A.), July 11-15.

* N.E.E.D.S. '94, Workshop on Nonlinear Evolution Equations and Dynamical Systems, Los Alamos (U.S.A.), September 11-18.

1996

* Workshop on Lie Symmetry Software with Applications to Nonlinear Problems, Nordfjordeid (Norway), June 17-27 (**Invited Lecturer**).

1997

* A.M.S. Sectional Meeting, Atlanta (U.S.A.), October 17-19 (**Session co-organizer**).

1999

* Giornate di Aggiornamento in Malattie Infettive: Problematiche Attuali Diagnostiche, Cliniche e Profilattiche in Tema di Tuberculosis, Terni (Italy), May 29.

2000

* Kruskal 2000, Conference on Integrable System, Adelaide (Australia), January 3-7.

2002

* Workshop on Nonlinear Evolution Equations and Dynamical Systems, Cadiz (Spain), June 10-15.

* Symposium on Trends in Applications of Mathematics to Mechanics, Maiori (Italy), September 30-October 4.

2004

* Nonlinear Physics: Theory and Experiment III, Gallipoli (Italy), June 24-July 3.

* International Conference on Differential Equations and Applications in Mathematical Biology, Nanaimo (Canada), July 18-23.

2005

* AMS-MAA-SIAM Joint Mathematics Meetings, Atlanta (USA), January 5-8 (**Session co-organizer**).

2006

* Nonlinear Physics: Theory and Experiment IV, Gallipoli (Italy), June 23-July 1.

* Assemblea Scientifica G.N.F.M., Montecatini (Italy), April 6-8.

2007

* Applications of Computer Algebra, ACA'07, Rochester (U.S.A.), July 19-22 (**Invited Speaker**).

* MathFest 07, San Jose (U.S.A.), August 3-5.

- * Assemblée Scientifica G.N.F.M., Montecatini (Italy), October 11-13.
- 2008
- * Nonlinear Physics: Theory and Experiment V, Gallipoli (Italy), June 12-21.
- * Similarity: generalizations, applications and open problems, Vancouver (Canada), August 11-15.
(Invited Speaker).
- 2009
- * IX Congresso della Società Italiana di Storia delle Matematiche, Perugia (Italy), November 26-28
(President of the Organizing Committee).
- 2010
- * V Group Analysis of Differential Equations and Integrable Systems, Protaras (Cyprus), June 6-10.
- * XIX Integrable Systems and Quantum symmetries, Prague (Czech Republic), June 17-19.
- * VI Nonlinear Physics: Theory and Experiment, Gallipoli (Italy), June 23-July 3.
- * ICM 2010, Satellite Conference, Integrable Systems and Geometry, Puducherry (India), August 12 - 17 **(Invited Speaker).**
- * X Congresso della Società Italiana di Storia delle Matematiche, Brescia (Italy), November 25-27.
- 2011
- * Symmetries in Science XV, Bregenz (Austria), July 31-August 5.
- * 7th Symposium on Quantum Theory and Symmetries, Prague (Czech Republic), August 7-13
- * Tercentenary of the Laplace-Runge-Lenz vector, Ballito (South Africa), November 23-27
(Invited Speaker).
- 2012
- * N.E.E.D.S. XIX, Kolimvari (Greece), July 8-15.
- * Society for Mathematical Biology Annual Conference, Knoxville (USA), July 25-28.
- * Algebra Geometry Mathematical Physics 2012, Brno (Czech Republic), September 12-14
(Invited Speaker).
- * Assemblée Scientifica Gruppo Nazionale Fisica Matematica, Montecatini (Italy), October 4-6.
- 2013
- * JNMP Conference, Nordfjordeid (Norway), June 4-14 **(Co-organizer).**
- * Physics and Mathematics of Nonlinear Phenomena, Gallipoli (Italy), June 22-29.
- * 8th Symposium on Quantum Theory and Symmetries, Mexico City (Mexico), August 5-9.
- 2014
- * II International Conference On Symmetries, Differential Equations and Applications (SDEA – II), Islamabad (Pakistan), January 27-30 **(Invited Speaker).**
- 2015
- * Physics and Mathematics of Nonlinear Phenomena, Gallipoli (Italy), June 20-27.
- 2016
- * Workshop Geometric and Analytic Theory of Hamiltonian Systems in Finite and Infinite Dimensions, Trieste (Italy), January 18-21.
- * 7th European Congress of Mathematics, Berlin (Germany), July 18-22.
- * Nonlinear Integrable Systems, Burgos (Spain), October 20-22.
- * XV Congresso della Società Italiana di Storia delle Matematiche, Potenza (Italy), Nov 10-12.
- 2017
- * Joint Mathematics Meetings, Atlanta (U.S.A.), January 4-7 **(Session Co-organizer).**
- * Assemblée Scientifica GNFM, Montecatini (Italy), May 4-6.
- * Physics and Mathematics of Nonlinear Phenomena, Gallipoli (Italy), June 17-24.
- * SIAM Annual Meeting, Pittsburgh (U.S.A.), July 10-14 **(Invited Speaker).**
- * Symmetries in Science, Bregenz (Austria), July 31- August 4.
- * III International Conference On Symmetries, Differential Equations And Applications, Istanbul (Turkey), August 14-17 **(Invited Speaker).**
- * XVI Congresso della Società Italiana di Storia delle Matematiche, Pavia (Italy), November 9-11.

2018

- * 9th China-Italy Colloquium on Applied Mathematics, Assisi (Italy), June 11-15.
- * XIX International Congress on Mathematical Physics, Montreal (Canada), July 23-28.
- * Assemblea Scientifica GNFM, Montecatini (Italy), October 4-6.
- * XVI Congresso della Società Italiana di Storia delle Matematiche, Trieste (Italy), November 8-10.

2019

- * XXIst International Conference on Geometry, Integrability and Quantization, Sts. Constantine and Elena, Varna (Bulgaria) , June 3-8 (**Invited Lecturer**).
- * Applications of Nonlinear Diffusion Equations Conference, Melbourne (Australia), June 19-21 (**Invited Speaker**).

2021

- * International Conference on the Numerical and Analytical Techniques in Differential Equations, Puducherry (India), November 16-18 (**Invited Speaker**).

2022

- * 56th Meeting of the Society for Natural Philosophy (SNP2022) Mechanics and Analysis, Pisa, September 21-23
- * HAPP One-day Conference, Symmetries in Physics, Oxford (U.K.), November 19 (**Invited Speaker**).

Professional Association Member:

- * American Mathematical Society (**life member**),
- * History of Science Society,
- * International Association of Mathematical Physics,
- * Società Italiana di Storia delle Matematiche,
- * Society for Natural Philosophy,
- * The Mathematical Association of America,
- * The Society for Mathematical Biology (**life member**),
- * Unione Matematica Italiana.

Publications

1. R. Balli and M.C. Nucci, "Sulle rotazioni di un satellite girostatico in orbita circolare", *Rend. Mat. Univ. Roma* 12--VI (1979) pp. 493--500.
2. M.C. Nucci, "Rotation motions of a gyrostatic satellite in a Kepler orbit", *Z.A.M.M.* 60 (1980) pp. 113--114.
3. M.C. Nucci, "Alcune soluzioni esatte in magnetofluidodinamica", *Rend. Mat. Univ. Roma* 2--VII (1982) pp. 67--77.
4. M.C. Nucci, "Alcuni moti non stazionari di un fluido conduttore in un tubo cilindrico di conduttività finita", *Rend. Mat. Univ. Roma* 4--VII (1984) pp. 265--276.
5. M.C. Nucci, "Group analysis for M.H.D. equations", *Atti Sem. Mat. Fis. Univ. Modena* 33--I (1984) pp. 21--34.
6. W.F. Ames and M.C. Nucci, "Analysis of fluid equations by group methods", *J. Eng. Math.* 20 (1986) pp. 181--187.
7. C. Rogers and M.C. Nucci, "On reciprocal auto-Bäcklund transformations and the Korteweg-deVries hierarchy", *Physica Scripta* 33 (1986) pp. 289--292.
8. C. Rogers, M.C. Nucci, and J.G. Kingston, "On reciprocal auto-Bäcklund transformations: application to a new nonlinear hierarchy", *Il Nuovo Cimento* 96B-1 (1986) pp. 55--63.
9. M.C. Nucci, "Group analysis for unsteady axisymmetric incompressible viscous flow (kinematic approach)", *J. Phys. A: Math. Gen.* 20 (1987) pp. 5053--5059.
10. M.C. Nucci, "Pseudopotentials, Lax equations and Bäcklund transformations for non-linear evolution equations", *J. Phys. A: Math. Gen.* 21 (1988) pp.73--79.

11. M.C. Nucci, "Pseudopotentials for nonlinear evolution equations in 2+1 dimensions", *Int. J. Non-Lin. Mech.* 23 (1988) pp. 361--367.
12. A. Donato and M.C. Nucci, "On spherical discontinuity waves in hyperelastic materials subject to a non constant deformation", *Mechanica* 23 (1988) pp. 156--159.
13. W.F. Ames, A. Donato, and M.C. Nucci, "Analysis of the threadline equations", in *Nonlinear Wave Motion*, A. Jeffrey, Ed., Longman, Essex (1989) pp. 1--10.
14. M.C. Nucci, "Pseudopotentials for nonlinear evolution equations in 2+1 dimensions (Tables)", in *Numerical and Applied Mathematics, IMACS Transactions on Scientific Computing 1988, Vol. 1.1*, W.F. Ames, Ed., Baltzer, Basel, (1989) pp. 91--96.
15. M.C. Nucci, "Painlevé property and pseudopotentials for nonlinear evolution equations", *J. Phys. A: Math. Gen.* 22 (1989) pp. 2897--2913.
16. D. Levi, M.C. Nucci, C. Rogers, and P. Winternitz, "Group theoretical analysis of a rotating shallow liquid in a rigid container", *J. Phys. A: Math. Gen.* 22 (1989) pp. 4743--4767.
17. M.C. Nucci, "Pseudopotentials and integrability properties of the Burgers' equation", *Atti Sem. Mat. Fis. Univ. Modena* 38 (1990) pp. 313--317.
18. F. Calogero and M.C. Nucci, "Lax pairs galore", *J. Math. Phys.* 32 (1991) pp. 72--74.
19. M.C. Nucci, "Reciprocal auto-Bäcklund transformations via the Möbius group", *Atti Sem. Mat. Fis. Univ. Modena* 40 (1992) pp. 11--24.
20. M.C. Nucci, "Riccati-type pseudopotentials and their applications", in *Nonlinear Equations in the Applied Science*, W.F. Ames and C. Rogers, Eds., Academic Press, Boston (1992) pp. 399--436.
21. M.C. Nucci, "Interactive REDUCE programs for calculating classical, non-classical, and approximate symmetries of differential equations", in *Computational and Applied Mathematics II. Differential Equations*, W.F. Ames, and P.J. Van der Houwen, Eds., Elsevier, Amsterdam (1992) pp. 345--350.
22. M.C. Nucci and P.A. Clarkson, "The nonclassical method is more general than the direct method for symmetry reductions: an example of the Fitzhugh-Nagumo equation", *Phys. Lett. A* 164 (1992) pp. 49--56.
23. M.C. Nucci, "Symmetries of linear, C-integrable, S-integrable, and non-integrable equations", in *Nonlinear Evolution Equations and Dynamical Systems. Proceedings NEEDS '91*, M. Boiti, L. Martina, and F. Pempinelli, Eds., B World Scientific, Singapore (1992) pp. 74--381.
24. M.C. Nucci, "Tales of Gods and Heroes: The nectar of the Gods", *Notices of the A.M.S.* 39 (1992) pp. 427--428.
25. W.F. Ames and M.C. Nucci, "Symmetry analysis for waves in hole enlargement", in *Nonlinear Hyperbolic Problems: Theoretical, Applied, and Computational Aspects*, A. Donato, and F. Oliveri, Eds., Vieweg, Braunschweig (1993) pp. 10--14.
26. M.C. Nucci, "Symmetries and symbolic computation", in *Differential Equations with Applications to Mathematical Physics*, W.F. Ames, E.M. Harrell, and J.V. Herod, Eds., Academic Press, Boston (1993) pp. 249--260.
27. M.C. Nucci, "Nonclassical symmetries and Bäcklund transformations", *J. Math. An. Appl.* 178 (1993) pp. 294--300.
28. M.C. Nucci and W.F. Ames, "Classical and nonclassical symmetries of the Helmholtz equation", *J. Math. An. Appl.* 178 (1993) pp. 584--591.
29. M.C. Nucci, "Iterating the nonclassical symmetries method", *Physica D* 78 (1994) pp. 124--134.
30. N.H. Ibragimov and M.C. Nucci, "Integration of third order ordinary differential equations by Lie's method: equations admitting three-dimensional Lie algebras", *Lie Groups and Their Applications I* (1994) pp. 49--64.
31. W.F. Ames, M.C. Nucci, M. Lauter, E. Adams, and D. Straub, "Comparison of classical and alternative fluid equations using symmetries methods", *Z.A.M.M.* 75 (1995) pp. 379--388.

32. M.C. Nucci, "Interactive REDUCE programs for calculating Lie point, non-classical, Lie-Bäcklund, and approximate symmetries of differential equations: manual and floppy disk", in *CRC Handbook of Lie Group Analysis of Differential Equations. Vol. 3*, N.H. Ibragimov, Ed., CRC Press, Boca Raton (1996) pp. 415--481.
33. M.C. Nucci, "The complete Kepler group can be derived by Lie group analysis", *J. Math. Phys.* 37 (1996) pp. 1772--1775.
34. F. Allasia and M.C. Nucci, "Symmetries and heir equations for the laminar boundary layer model", *J. Math. An. Appl.* 201 (1996) pp. 911--942.
35. M.C. Nucci, "Iterations of the nonclassical symmetries and conditional Lie-Bäcklund symmetries", *J. Phys. A: Math. Gen.* 29 (1996) pp. 8117--8122.
36. M.C. Nucci, "The role of symmetries in solving differential equations", *Mathl. Comput. Modelling* 25 (1997) pp. 181--193.
37. L. Gammaitoni and M.C. Nucci, "Using Maple to analyze a model for airborne contagion" *MapleTech* 4 (1997) pp. 2--5.
38. L. Gammaitoni and M.C. Nucci, "Evaluation of the efficacy of TB control measures using a mathematical model", *Emerging Infectious Diseases* 3 (1997) pp.335--342.
39. M.C. Nucci and P.G.L. Leach, "The determination of nonlocal symmetries by the technique of reduction of order", *J. Math. Anal. Appl.* 251 (2000) pp. 871--884.
40. M.C. Nucci and P.G.L. Leach, "The harmony in the Kepler and related problems", *J. Math. Phys.* 42 (2001) pp. 746--764.
41. V. Torrisi and M.C. Nucci, "Application of Lie group analysis to a mathematical model which describes HIV transmission", in *"The Geometrical Study of Differential Equations"* (J.A. Leslie and T.P. Hobart, Eds.), A.M.S., Providence (2001) pp.11-20
42. P.G.L. Leach, M.C. Nucci and S. Cotsakis, "Symmetry, singularities and integrability in complex dynamics V: Complete symmetry groups of certain relativistic spherically symmetric systems", *J. Nonlinear Math. Phys.* 8 pp. 475--490 (2001)
43. L. Rosati, M.C. Nucci, F. Mezzanotte, "Edizione italiana e rilettura dei FUNDAMENTA NOVA di K.G.J. Jacobi a 150 anni dalla morte (18 Febbraio 1851-18 Febbraio 2001)", *Rapporto Tecnico n. 2001-4* (2001)
44. M.C. Nucci and P.G.L. Leach, "Symmetry analysis of and first integrals for the continuum Heisenberg spin chain", *ANZIAM J.* 44 pp. 61--72 (2002)
45. T. Cerquetelli, N. Ciccoli, M.C. Nucci, "Four dimensional Lie symmetry algebras and fourth order ordinary differential equations", *J. Nonlinear Math. Phys.* 9-s2 pp. 24-35 (2002)
46. M.C. Nucci and P.G.L. Leach, "Jacobi's last multiplier and the complete symmetry group of the Euler-Poinsot system", *J. Nonlinear Math. Phys.* 9 pp. 110-121 (2002)
47. C. Valente, M.C. Nucci, V. Cuteri, M.L. Marenzoni, "Estimating the spread of paratuberculosis within dairy cattle using a deterministic mathematical model", in *Atti del 7th International Colloquium on Paratuberculosis* (2002)
48. M.C. Nucci, "Nonclassical symmetries as special solutions of heir-equations", *J. Math. Anal. Appl.* 279 pp. 168-179 (2003)
49. M. Marcelli and M.C. Nucci, "Lie point symmetries and first integrals: the Kowalevsky top", *J. Math. Phys.* 44 pp. 2111-2132 (2003)
50. P.G.L. Leach, K. Andriopoulos, M.C. Nucci, "The Ermanno-Bernoulli constants and representations of the complete symmetry group of the Kepler Problem", *J. Math. Phys.* 44 pp. 4090-4106 (2003)
51. M.C. Nucci, "Lorenz integrable system moves a` la Poinsot", *J. Math. Phys.* 44 pp. 4107-4118 (2003)
52. K. Andriopoulos, P.G.L. Leach, M.C. Nucci, "The ladder problem: Painleve' integrability and explicit solution", *J. Phys. A: Math. Gen.* 36 pp. 11257-11265 (2003)
53. M.C. Nucci and P.G.L. Leach, "An integrable S-I-S model", *J. Math. Anal. Appl.* 290 pp. 506-518 (2004)

54. M.C. Nucci and P.G.L. Leach, "Jacobi's last multiplier and symmetries for the Kepler problem plus a lineal story", *J. Phys. A: Math. Gen.* 37 pp. 7743-7753 (2004)
55. P.G.L. Leach and M.C. Nucci, "Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator", *J. Math. Phys.* 45 pp. 3590-3604 (2004)
56. M.C. Nucci, "Calogero's "goldfish" is indeed a school of free particles", *J. Phys. A: Math. Gen.* 37 pp. 11391-11400 (2004)
57. M.C. Nucci, "Using Lie symmetries in epidemiology", *Electron. J. Diff. Eqns. Conference* 12 pp. 87-101 (2004)
58. M. Busso, M.C. Nucci, A. Chieffi, O. Straniero, "Can extended mixing in red giants be attributed to magnetic mechanism?", *Mem. S.A. It.* 75 pp. 648-653 (2004)
59. M.C. Nucci, "Jacobi's three-body system moves like a free particle", *J. Nonlinear Math. Phys.* 12-s1 pp. 499-506 (2005)
60. L. Rosati and M.C. Nucci, "A Lie symmetry connection between Jacobi modular differential equation and Schwarzian differential equation", *J. Nonlinear Math. Phys.* 12 pp. 144-161 (2005)
61. M.C. Nucci, "Jacobi last multiplier and Lie symmetries: a novel application of an old relationship", *J. Nonlinear Math. Phys.* 12 pp. 284-304 (2005)
62. M.C. Nucci and P.G.L. Leach, "Jacobi's last multiplier and the complete symmetry group of the Ermakov-Pinney equation", *J. Nonlinear Math. Phys.* 12 pp. 305-320 (2005)
63. M.C. Nucci, "Let's Lie: a miraculous haul of fishes", *Theor. Math. Phys.* 144 pp. 1214-1222 (2005)
64. P.G.L. Leach, A. Karasu, M.C. Nucci, K. Andriopoulos, "Ermakov's superintegrable toy and nonlocal symmetries", *SIGMA* 1-018 (2005)
65. M. Busso, A. Calandra, M.C. Nucci, "Buoyant magnetic flux tubes as a site for 26Al production in AGB stars", *Mem. S.A. It.* 77 pp. 798-803 (2006)
66. M.C. Nucci, P.G.L. Leach, K. Andriopoulos, "Lie symmetries, quantisation and c-isochronous nonlinear oscillators", *J. Math. Anal. Appl.* 319 pp. 357-368 (2006)
67. M. Edwards and M.C. Nucci, "Application of Lie group analysis to a core group model for sexually transmitted diseases", *J. Nonlinear Math. Phys.* 13 pp. 211-230 (2006)
68. M.C. Nucci and P.G.L. Leach, "Fuchs' solution of Painleve' VI equation by means of Jacobi last multiplier", *J. Math. Phys.* 48 013514 (2007)
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It is **underlined** that among her co-authors Francesco Alassia, Laura Gammaitoni, Valentina Torrisi, Laura Rosati, Tamara Cerquetelli, Monia Marcelli, Angela Gradassi, Sara Martini, Giuseppe D'Ambrosi, Giorgio Gubbiotti, Lucia Matteucci were **her students**. Moreover, Maureen Edwards (co-author), Mir Sajjad Hashemi (co-author), Paz Vicente Albares were conducting research under **her supervision** at University of Perugia while they were **PhD students** in Australia (University of Wollongong), Iran (Imam Khomeini International University), Spain (University of Salamanca), respectively.

Teaching Activities

At Georgia Institute of Technology, Atlanta (U.S.A), she has taught the following courses:

Academic year 1986/87

Math 2508. Calculus V

Math 3709. Mathematics for System Engineering

Math 4320. Complex Analysis

Math 4582. Advanced Engineering Mathematics

Math 4640. Scientific Computing I

Academic year 1989/90

Math 1507. Calculus I

Math 3709. Mathematics for System Engineering

Math 4348. Introduction to Partial Differential Equations II

Math 6582. Integral Transforms

Academic year 1990/91

Math 4581. Advanced Engineering Mathematics

Math 4347. Introduction to Partial Differential Equations I

Math 6582. Integral Transforms

Math 6583. Integral Equations

Math 8183. Current Research on Nonlinear Evolution Equations

At the **University of Perugia**, she has supervised both Mathematics and Physics students with Laurea Quadriennale, Triennale, Specialistica, Magistrale (**more than 50 theses**), and taught the following courses:

Academic year 1991/92

“Matematica Computazionale” (1/3) della Scuola Diretta a Fini Speciali in Informatica.
“Analisi Numerica” del Corso di Laurea Quadriennale in Matematica.

Academic year 1992/93

“Matematica Computazionale” della Scuola Diretta a Fini Speciali in Informatica.
“Istituzioni di Matematiche II” del Corso di Laurea Quadriennale in Chimica.

Academic year 1993/94

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.
“Meccanica Superiore” del Corso di Laurea Quadriennale in Matematica.

Academic year 1994/95

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.

Academic year 1995/96

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.
“Calcolo Numerico” del Corso di Diploma in Informatica.

Academic years 1996/97, 1997/98, 1998/99

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.
Cicli di lezioni e responsabile del gruppo di lavoro “Uso del computer nell'insegnamento della matematica” nell'ambito degli Incontri di aggiornamento per gli insegnanti di Matematica delle Scuole Medie Superiori delle Province di Perugia e Terni.

Academic year 1999/2000

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.
“Metodi Computazionali per l'insegnamento della Matematica e della Fisica” della Scuola di Specializzazione per Insegnanti di Scuola Secondaria (SSISS).

Academic year 2000/2001

“Meccanica Razionale” (II semestre) del Corso di Laurea Quadriennale in Matematica.
“Didattica della Matematica e della Fisica con MAPLE” della SSISS.

Academic year 2001/2002

“Meccanica Razionale” del Corso di Laurea Quadriennale in Matematica.
“Metodi Computazionali per l'insegnamento della Matematica e della Fisica” della SSISS.

Academic year 2002/2003

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Didattica della Matematica e Nuove Tecnologie” della SSISS.

Academic year 2003/2004

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste” (2 CFU) del Corso di Laurea Triennale in Fisica.
“Modelli Matematici e Nuove Tecnologie” della SSISS.

Academic year 2004/2005

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.

“Meccanica Celeste” (2 CFU) del Corso di Laurea Triennale in Fisica.
“Modelli Matematici e Nuove Tecnologie” della SSISS.
“Fisica Matematica” del Master in Analisi dei Rischi e Gestione delle Emergenze.
“Precorso C” per gli studenti immatricolati nei corsi di Scienze Informatiche e Geologiche.

Academic year 2005/2006

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste” (I Modulo) del Corso di Laurea Triennale in Fisica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.

Academic year 2006/2007

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste” (I Modulo) del Corso di Laurea Triennale in Fisica.
“Metodi Matematici Avanzati per la Fisica” del Corso di Laurea Specialistica in Fisica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.

Academic year 2007/2008

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste” (I Modulo) del Corso di Laurea Triennale in Fisica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica” della SISS.
“Matematica” della SISS.

Academic year 2008/2009

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste I” del Corso di Laurea Triennale in Fisica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.
“Modelli Matematici e Nuove Tecnologie” della SISS.

Academic year 2009/2010

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Celeste: Modelli Matematici” del Corso di Laurea Triennale in Fisica.
“Meccanica Razionale 1” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.

Academic year 2010/2011

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Razionale I” (I modulo) del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche 1” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica 3” del Corso di Laurea Magistrale in Matematica.

Academic year 2011/2012

“Fisica Matematica 3” del Corso di Laurea Magistrale in Matematica.
“Storia delle Matematiche” del Corso di Laurea Triennale in Matematica.

Academic year 2012/2013

“Meccanica Razionale” del Corso di Laurea Triennale in Fisica.
“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.

“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica III” del Corso di Laurea Magistrale in Matematica.

Academic year 2013/2014

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica III” del Corso di Laurea Magistrale in Matematica.

Academic year 2014/2015

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica III” del Corso di Laurea Magistrale in Matematica.
“Didattica della Geometria e della Fisica Matematica” (II Modulo) del Tirocinio Formativo Attivo (TFA) A049 Il grado - Matematica e Fisica

Academic year 2015/2016

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Mathematical Physics III” del Corso di Laurea Magistrale in Matematica.
“Meccanica Analitica” del Corso di Laurea Triennale in Fisica.
“Applicazioni delle simmetrie di Lie alle equazioni differenziali” del Dottorato in Matematica, Informatica e Statistica, Consorzio Firenze-Perugia-Istituto Nazionale di Alta Matematica (INDAM)

Academic year 2016/2017

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Symmetries of Mathematical Models” del Corso di Laurea Magistrale in Matematica.
“Meccanica Analitica” del Corso di Laurea Triennale in Fisica.

Academic year 2017/2018

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Symmetries of Mathematical Models” del Corso di Laurea Magistrale in Matematica.
“Storia delle Matematiche II” del Corso di Laurea Magistrale in Matematica.
“Meccanica Analitica” del Corso di Laurea Triennale in Fisica.

Academic year 2018/2019

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Symmetries in Mathematical Physics” del Corso di Laurea Magistrale in Matematica.
“Storia delle Matematiche II” del Corso di Laurea Magistrale in Matematica.
“Meccanica Analitica” del Corso di Laurea Triennale in Fisica.
“Applicazioni delle simmetrie di Lie alle equazioni differenziali” del Dottorato in Matematica, Informatica e Statistica, Consorzio Firenze-Perugia- INDAM.

Academic year 2019/2020

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.
“Fisica Matematica I” del Corso di Laurea Triennale in Matematica.

“Symmetries in Mathematical Physics” del Corso di Laurea Magistrale in Matematica.
“Storia delle Matematiche II” del Corso di Laurea Magistrale in Matematica.
“Applicazioni delle simmetrie di Lie alle equazioni differenziali” del Dottorato in Matematica, Informatica e Statistica, Consorzio Firenze-Perugia- INDAM.

Academic year 2020/2021 (First Semester)

“Meccanica Razionale I” del Corso di Laurea Triennale in Matematica.
“Storia delle Matematiche I” del Corso di Laurea Triennale in Matematica.

At the **University of Messina**, she has taught the following courses:

Academic year 2020/2021 (Second Semester)

“Applied Mathematics” del Corso di Laurea Magistrale in Condensed Matter Physics.

Academic year 2021/2022

“Metodi e Modelli della Fisica Matematica” del Corso di Laurea Magistrale in Matematica.

At the **University of Bologna**, she has taught the following courses:

Academic year 2022/2023

“Matematica” del Corso di Laurea a Ciclo Unico in Architettura.
“Fisica Matematica 3: Modulo 2 ” del Corso di Laurea Triennale in Matematica.

Academic year 2023/2024

“Matematica” del Corso di Laurea a Ciclo Unico in Architettura.
“Fisica Matematica 3” del Corso di Laurea Triennale in Matematica.