

Curriculum Vitae

Personal and Contact Details

Name: Anna Maria Cherubini

Education

14/09/1993	PhD in Mathematics University of Bologna, Italy
19/02/1988	Master Degree in Mathematics (<i>cum laude</i>) University of Bologna, Italy
07/1982	Maturità Classica (equiv. to Baccalaureat-classics), Liceo <i>L. Galvani</i> , Bologna

Academic Positions

since 03/1997	Ricercatrice a tempo indeterminato/professoressa aggregata (Aggregated Professor and Senior Researcher) Department of Mathematics and Physics, University of Salento, Lecce, Italy
09/1995 – 02/1997	Professor of Mathematical Analysis Faculty of Science, Department of Information Technology, University of Verona, Italy
10/1993 – 09/1995	Post-doc fellow, Department of Mathematics, Bologna, and Department of Mathematics, Padova

Visiting Positions

since 2019	Visiting Researcher at Imperial College London, various short visits
18 Feb.-2 March 2019	Visiting Researcher at Imperial College London
30 Apr. -15 May 2018	Visiting Researcher at Imperial College London
20 Feb.-7 Apr. 2017	Visiting Researcher at Imperial College London
Oct. 2013-Sept. 2015	Visiting Researcher at Imperial College London

Awards

1993 – 1995	Postdoc fellowship, University of Bologna, Italy
1993	National Research Council (CNR) postdoc grant (not accepted) University of Bologna mobility scholarship for University of Paris-Orsay (not accepted)
1989 – 1993	Ph.D. Scholarship, University of Bologna, Italy
1987 – 1988	Italian National Research Council (CNR) Scholarship
1985	Two University of Bologna scholarships for Sussex University, UK

Competitive funding

	Coordinator
since 2022	Project TISMA - TECNOLOGIE INNOVATIVE E SENSORI PER IL MONITORAGGIO AMBIENTALE (Innovative technologies for environmental monitoring), funded by the Ministry for universities and research under the National Plan for Research (PNR) (Value:€135000)

2008 – 2011	Project <i>STReGA</i> , on gender equality in science, funded by Italy's Ministry for work and social policies (value: €100,000)
	Participant
since 2025	GENDER ON DIGITAL Master in Digitalisation and Gender (ERASMUS-EDU-2025-EMJM-DESIGN)
2024-2025	European Researchers' Night Apulia 2024-2025 ERN APULIA MED (HORIZON-MSCA-2023-CITIZENS-01-01)
2020-2023	The CALIPER project: Linking research and innovation for gender equality (H2020-SwafS-09-2018-2019-2020 Supporting research organisations to implement gender equality plans)
2023	Ste@m project financed by the Apulia Region for the training of primary school teachers aimed at reducing gender gaps in children's science education
2021-2022	European Researchers' Night Apulia 2021 (H2020- EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions)
2019-20	European Researchers' Night Apulia 2018-2019 (H2020- EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions)
2015-2019	ITN CRITICS (H2020-EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions)
2012–2015	Research Network <i>Geometric and analytical theories of finite and infinite dimensions Hamiltonian systems</i> (PRIN Project funded by Italian Ministry for Research)
2005 – 2006	Research Network <i>Non-linear propagation and stability in continous processes</i> (PRIN Project funded by Italian Ministry for Research)
2003 – 2004	Research Network <i>Non-linear problems of waves propagation and stability in continuous media</i> (PRIN Project funded by Italian Ministry for Research)
2000 – 2001	Research Network <i>Non-linear problems of waves propagation and stability in continuous media</i> (PRIN Project funded by Italian Ministry for Research)

Membership of Professional Bodies and Societies

since 2024	Member of <i>100esperte</i> , project/databank by Osservatorio di Pavia and Bracco Foundation to increase visibility of women scientists https://100esperte.it
since 2021, re-elected 2023	Member of the board of the 'Dynamical Systems' group of the Italian Mathematical Union since 2021, re-elected in 2023
since 2021, re-elected 2023	Member of the President's Advisor Panel of the National Conference of University Equality Bodies
since 2016	Member of the Standing Committee for European Women in Mathematics (EWM) and coordinator of the editorial team
since 2012	Member of the Equal Opportunities Committee for Italian Mathematical Union (UMI)
since 2016	Member of the London Mathematical Society
2016	Member of European Mathematical Society
2015	SIAM Society for Industrial and Applied Mathematics
since 1997	Member of the Italian National Group for Mathematical Physics (GNFM)

Other appointments, commissions of trust (since 2020)

Reviewer for journals in dynamical systems, applied mathematics and mathematical physics and evaluator for research councils

since 2020	Member of the Gender Policies Group of the Conference of the Rectors of Italian Universities (CRUI)
2022	Member of the national jury for the 20th edition of the Soroptimist International-Fund call for proposals (2021-23)

Research and Institutional responsibilities (since 2017)

At University of Salento:

since 2024	Member of the Scientific Committee for the Master (2nd level) "Metodi e Modelli Fisico-Matematici per la Salute e l'Ambiente"
since 2022	Scientific advisor for research grant <i>Development and application of dynamical systems techniques for the study of space debris</i>
since 2019	Vice-Rector for Gender policies. In this role I have been also:
since 2023	Member of the steering panel for the Medical Presidium
2020-2023	Coordinator of the inter-institutional table for the creation of the Medical Presidium
since 2022	Coordinator of the Institutional Table for the implementation of the Gender Equality Plan
2021	Coordinator of the commission for drafting the Gender Equality Plan
since 2021	Coordinator for the planning and set up of the Alias Career (modification of standard institutional procedures to guarantee privacy and inclusion to transgender students) and responsible for its implementation
since 2020	Responsible for the Gender Budgets
Since 2018	Responsible for institutional communication for the Department of Mathematics and Physics
from 2010 to 2017	Member of the Scientific Committee for the PhD in Ecology and Climate Change (later PhD in Ecology)
	Member of various committees for the awarding of research grants and hiring of lecturers

Teaching experience (PhD, graduate and undergraduate level)

At University of Salento:

PhD courses:

2008/09–2013	<i>PhD School in Ecology and Climate Change:</i> Courses on Dynamical Systems
2003/04–2007/08	<i>PhD School in Mathematics:</i> Courses on ODE and dynamical systems
	<u>Graduate and undergraduate courses for Mathematics, Physics, Engineering:</u>
	(If not otherwise stated, each course is one-term and 60 hours <i>circa.</i>)
From 2015/2016 and 2010/11 –2012/13	Dynamical systems and Lagrangian mechanics (third year, degree in Mathematics)
2005/6 –2010/11	Graduate course in Mathematical Physics (Mathematics Master degree and Physics Master degree)
2006/7 – 2009/10	Dynamical Systems (third year, degree in Applied Mathematics)
2002/3– 2005/6	Graduate course in Mathematical Physics (Mathematics Master degree and Physics Master degree)
1997/8–2007/8	Rational Mechanics (year-long course, degree in Mathematics)
1997/8–2007/8	Graduate course in Institution of Mathematical Physics for Mathematics (year-long course, Master degree in Mathematics.)

1997/8–2000/1	Rational Mechanics for Engineering (year-long course, degree in Engineering) At University of Verona, Italy:
1995/6–1996/7	Mathematical Analysis (intensive course for the degree in Information Technology, around 100 hours.)

Supervision of students

Supervision of theses at undergraduate, graduate and PhD level. List available on request.

Scientific and organising committees for international conferences since 2017

September 8-10 2025	Workshop 'Dynamical Systems in Lecce', Lecce
December 17th 2022	Workshop 4th DAI Day (Dynamics Days), Parma
June 6-9 2022	Workshop DINAMICI VII, Varese, Riemann International School of Mathematics
December 17-18 2020	Workshop 3rd DAI Day (Dynamics Days), Lecce
November 11-12 2021	Conference Gender Equality Plans and smart-working: changes in well-being in Academia. Lecce
21 December 2018	Second DAI Day (Meeting and Assembly of the DinAmicI), Accademia dei Lincei, Roma
18-22 April 2017	CRITICS Spring Doctoral School, Lecce, Italy

Organisation of national conferences and other academic events since 2020

December 5-6 2024	Annual Conference of the National Conference of the Equality Bodies of Italian Universities, Cagliari
Since 2020	As a Vice- Rector for gender policy I also organised or participated in the organisation of around 90 seminars, round tables and events at University of Salento. Posters of many of the events organised in this role can be found in the Events Archive at https://www.unisalento.it/ateneo/politiche-di-genere

Selected Seminars, Invited Talks and Events since 2016

May 25-30 2025	Waves dynamics, integrability and beyond (WaDIB) Conference 2025, Pula (Cagliari)
December 16-20 2024	14th AIMS Conference, New York University at Abu Dhabi
December 5-6 2024	Annual Conference of the National Conference of the Equality Bodies of Italian Universities, Cagliari
June 10-14 2024	Equadiff 2024, Karlstad, Sweden
December 15-16 2023	Annual Conference of the National Conference of the Equality Bodies of Italian Universities, Parma
May 31-June 4 2023	13th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Wilmington NC, USA
23 November 2023	Conference <i>Inclusive research and Innovation Ecosystems</i> , Bruxelles
24- 26 August 2022	Workshop <i>Critical transitions and nonautonomous bifurcations</i> , Technical University of Munich Science and Study Center
May 19th 2022	<i>Women in maths day</i> Dip. Matematica G. Peano, Torino, 19 maggio 2022
October 6-7 2022	<i>NRRP: Gender, generations and territories. The role of the university for a more equitable and inclusive society</i> , Annual Conference of the National Conference of the Equality Bodies of Italian Universities (speaker and session coordinator)

December 6th 2022	Seminar for training course organised by the National Conference of the Equality Bodies of Italian Universities
22-23 June 2022	Caliper 6th Consortium Meeting, London
October 1-3 2021	Women Equality Festival, Lecce
Sept. 2021	Seminar for International Mathematics Master
December 3-4 2020	Conference Smart Academia, Politecnico di Milano
March 4-6 2020	CALIPER Transnational Capacity building, Venezia,
January 14-15 2020	Kick-off meeting H2020 Project Caliper, Thessaloniki
13-27 August, 6-14 October, 23 Nov -1 Dec 2018	Participant in the Special Program in Hamiltonian Systems, MSRI, Berkeley
14 June 2018	Talk at the Department of Mathematics, University of Surrey
4-8 December 2017	Workshop on Random Dynamical Systems, Lorentz Center, Leiden
28 Aug.-9 Sept. 2017	CELMEC VII Conference and School, S. Martino al Cimino (VT)
12-16 June 2017	Llavefest: A Broad Perspective on Finite and Infinite Dimensional Dynamical Systems, Barcelona
13 June 2017	WASCOM 17 XIX International Conference on Waves and Stability in Continuous Media, Bologna
5-9 June 2017	DinAmici V Modern Trends in the Ergodic Theory of Dynamical Systems, Rome
4-9 September 2016	1st CRITICS Workshop on Critical Transitions in Complex Systems, Kulhuse, Denmark
21 May 2016	Talk at the Department of Mathematics, University of Rome Tor Vergata
17 February 2016	Talk at the School of Mathematical Sciences, Queen Mary University London

Languages

Italian (native), English (fluent), French (very good), German (basic)

Publications

Books

- [C1] S. Benvenuti, A.M. Cherubini, and N. Ciccoli eds. *Cosa significa davvero studiare matematica all'università.*, Alphatest (2024) pp. 1-192,
- [C2] A.M. Cherubini, M. Mosca and S. Mastroia. *Bilancio di Genere 2022. Università del Salento* Università del Salento (2024)
- [C3] A.M. Cherubini et al. *Bilancio di Genere 2020. Università del Salento* Università del Salento (2024)
- [C4] A.M. Cherubini, P. Colella and C. Mangia eds. *Empowerment e orientamento di genere nella scienza. Dalla teoria alle buone pratiche. (Gender empowerment and vocational guidance in science. From theory to best practices)*, Franco Angeli Edizioni (2011), pp.208,

Articles

- [C5] A.M. Cherubini and M. Gidea. Energy Transport in Random Perturbations of Mechanical Systems *Journal of Differential Equations* **447** (2025), 113619 (45pp)
- [C6] V.L. Barutello, A.M. Cherubini and I. De Blasi. Exploration of billiards with Keplerian potential *Nonlinearity* **38(5)** (2025), 055004 (21pp)

- [C7] A.M. Cherubini and R. De Pascalis. On the compressible quasilinear viscoelastic simple uniaxial deformation. *The European Physical Journal Plus*(2024) bf 139(11), 993 (16 pp)
- [C8] P. Cherubini, C. Reverberi, M. Mantovani and A.M. Cherubini. Dentro la teoria del prospetto: come la probabilità degli esiti cambia gli atteggiamenti verso il rischio *Sistemi intelligenti*,bf 36(2) (2024),307–336
- [C9] C. Cerroni and A.M. Cherubini. A che punto è la notte: i numeri delle donne nella matematica italiana. *Matematica, Cultura e Società* **3** (2018), 5-11.
- [C10] A.M. Cherubini, J.S.W. Lamb, M. Rasmussen, and Y. Sato. A random dynamical system perspective on stochastic resonance. *Nonlinearity* **30** (2017), 2835–2853.
- [C11] F. Bagarello, A.M. Cherubini and F. Oliveri. An operatorial description of desertification. *SIAM Journal on Applied Mathematics*, **76.2** (2016), 433–597.
- [C12] R. Corrado, A.M. Cherubini and C. Pennetta. Critical Desertification Transition in Semi-Arid Ecosystems: the role of local facilitation and colonization rate, *Communications in Nonlinear Science and Numerical Simulations*, **22.1** (2015), 3–12.
- [C13] R. Corrado, A.M. Cherubini and C. Pennetta. Desertification transitions in semi-arid ecosystems and directed percolation, *ISCS 2014: Interdisciplinary Symposium on Complex Systems*, A. Sanayei, O. E. Rössler, I. Zelinka eds, Series: Emergence, complexity and computation, 14, Springer (2015), 99–107.
- [C14] R. Corrado, A.M. Cherubini and C. Pennetta. Early warning signals of desertification transitions in semi-arid ecosystems *Physical Review E* **90.6** (2014): 062705.
- [C15] R. Corrado, A.M. Cherubini and C. Pennetta. Signals of Critical Transitions in Ecosystems Associated with Fluctuations of Spatial Patterns, *IEEE procs. 2013, 22nd Int. Conf. In Noise and Fluctuations* (2013), art. Number 12181, 1–4.
- [C16] K. Mazzocco, A.M. Cherubini and P. Cherubini. On the short horizon of spontaneous iterative reasoning in logical puzzles and games, *Organizational Behavior and Human Decision Processes* **121** (2013),14–40.
- [C17] A.M. Cherubini, G. Metafunne and F. Paparella. On the stopping time of a bouncing ball, *Discrete and Continous Dynamical Systems-B* **10:1** (2008), 43–72.
- [C18] A.M. Cherubini, G. Metafunne and F. Paparella. Asymptotic behavior of a bouncing ball, *Symmetry and Perturbation Theory. Proceedings of the International Conference on SPT 2007*, G. Gaeta, R. Vitolo, S. Walcher eds,World Scientific (2007)
- [C19] P. Cherubini, E. Castelveccchio and A.M. Cherubini. Generation of hypotheses in Wason’s 2-4-6 task: an information theory approach, *Quarterly Journal of Experimental Psychology* **158A:2** (2005), 309–332.
- [C20] G. Benettin, A.M. Cherubini and F. Fassò. Regular and chaotic motions of the fast rotating rigid body: a numerical study, *Discrete and Continous Dynamical Systems-B* **2:4** (2002), 43–72.
- [C21] G. Benettin, A.M. Cherubini and F. Fassò. A ”changing chart” symplectic algorithm for rigid bodies and other dynamical systems on manifolds, *SIAM Journal on Scientific Computing* **23:4** (2001), 1189–1203.
- [C22] E. Caliceti and A.M. Cherubini. Spectral analysis and stability properties of a relativistic deformation of the harmonic oscillator, *Journal of Mathematical Physics* **34:12** (1993), 5451-5467.

Book Chapters

- [C23] A.M. Cherubini. Introduzione (Introduction), in *Indagini penali e intelligenza artificiale*, C. Parodi, T. Rizzo eds, Edizioni La Tribuna , Lecce 2025 (to appear)

- [C24] A.M. Cherubini. L'impegno e la complessità: un dialogo con Marisa Forcina, in *Tessere le relazioni*, D. De Leo, E. Laurenzi eds, Milella Edizioni, Lecce 2022. ISBN: 9788833291369
- [C25] A. Montorsi, T. Addabbo, R. Biancheri, A.M. Cherubini, R. Musumeci, I. Picardi, M. Sylos Labini, P. Tomio. The gender dimension in academic and research careers: some proposals towards inclusiveness in *Gendered academia: Inequality and inclusiveness in changing Italian academic governance*, M.C. Agodi, A. Lauria, I. Picardi eds. FedOA-Federico II University Press, Napoli (2021), *Genere, scienza e società*, **4**, 111–119, ISBN: 978-88-6887-115-4, DOI: 10.6093/978-88-6887-115-4
- [C26] A.M. Cherubini. Introduzione (Introduction), in *Empowerment e orientamento di genere nella scienza. Dalla teoria alle buone pratiche*, A.M. Cherubini, P. Colella, C. Mangia eds, Franco Angeli Edizioni (2011)
- [C27] A.M. Cherubini, P. Colella and C. Mangia. Il progetto STReGA (Project STReGA), in *Empowerment e orientamento di genere nella scienza. Dalla teoria alle buone pratiche*, A.M. Cherubini, P. Colella, C. Mangia eds, Franco Angeli Edizioni (2011), 29–39
- [C27] E. Camussi and A.M. Cherubini. Un esempio di *best practice*: il laboratorio di empowerment per donne che fanno ricerca. (An example of best practice: the empowerment lab for women researchers), in *Empowerment e orientamento di genere nella scienza. Dalla teoria alle buone pratiche*, A.M. Cherubini, P. Colella, C. Mangia eds, Franco Angeli Edizioni (2011), 178–193

Theses

- [C28] A.M. Cherubini. *Problemi di limite non relativistico tramite la teoria singolare delle perturbazioni degli operatori lineari* (*Problems of non-relativistic limit in singular perturbation theory of linear operators*), Ph.D. Thesis, Università degli studi di Bologna (1C993), pp. 110
- [C29] A.M. Cherubini. *Applicazioni della teoria canonica delle perturbazioni a problemi spettrali di tipo Schroedinger* (*Applications of canonical perturbation theory to Schroedinger-type spectral problems*), M.Sc. Thesis, Università degli studi di Bologna (1988)

Internal reports

- [C30] A.M. Cherubini and C. Tebaldi. A non-linear stability study for a class of MHD equilibria as extension of an example in Navier-Stokes equations, *Reports of Dipartimento di Matematica dell'Università di Lecce* **5** (2000)

