

## Curriculum Vitae

Name and Surname: Paola Rubbioni  
Place and date of birth: Perugia, 16/09/1968  
Citizenship: Italian  
Marital status: Married, three kids



### Academic excursus

06/09/1997-30/11/2017: Ricercatore Universitario (University Researcher) S.S.D. MAT/05, Università degli Studi di PERUGIA

01/12/2017-today: Professore II Fascia (Associate Professor) S.S.D. MAT/05, Università degli Studi di PERUGIA

### Main research interests

Solutions of differential equations and inclusions with delay. Stability of solutions for functional differential equations and for integro-differential equations. Solutions of differential equations and inclusions with impulses.

### Member of editorial boards of international journals

Fixed Point Theory - ISSN 1583-5022 (Print); ISSN 2066-9208 (Online);

Studia Universitatis Babeş-Bolyai Mathematica - ISSN: 2065-961x;

Journal of Function Spaces (06/2021-12/2022) - ISSN: 2314-8896 (Print); ISSN: 2314-8888 (Online).

### Participation in the activities of a funded research group

Associated Investigator of project PRIN2022 "Nonlinear differential problems with applications to real phenomena" (coord. Prof. Gabriele Bonanno)

Coordinator of project GNAMPA 2013 "Metodi Topologici per Problemi Differenziali Nonlineari ed applicazioni"

Coordinator of project "Giovani Ricercatori 2000" Ateneo di Perugia, Inclusioni Differenziali Funzionali in Spazi di Banach

Member of projects PRIN2009, PRIN2007, PRIN2005, PRIN2003 - Equazioni Differenziali Ordinarie e Applicazioni, coord. Prof. Fabio Zanolin

Member of projects GNAMPA 2001-2005, 2011-2017, 2019-2022

### Organization of international conferences (last 5 years)

*Two Days Workshop on Nonlinear Analysis @ MS Teams* (with S.Biagi, G.Infante, S.Matucci), online via MS Teams, 2-3/09/2021

Minisimposium "Topological Methods in Differential Equations (MS ID-13)" (with A.Cwiszewski and G.Infante), within the 8th European Congress of Mathematics, Portorož, Slovenia, 20-26/06/2021

*Recent advances on dynamical equations* to celebrate Luisa Malaguti 60th birthday (with I.Benedetti, A.Calamai, A.Corli, M.Franca, C.Marcelli, V.Taddei), Ancona, October 24-25, 2019

## Invited talks at international conferences (last 5 years)

The 14th international conference on Fixed Point Theory and its Applications, Brasov, Romania, July 11-14, 2023 (as main speaker). Title: *Solutions to differential equations with distributed delay*.

Workshop su Equazioni Differenziali Ordinarie non lineari, Messina, January 12-13, 2023 (as main speaker). Title: *Asymptotic stability of solutions of differential equations with distributed delay*.

Equadiff 15, Brno, Repubblica Ceca, July 11-15, 2022, Minisymposium ODE-07 Asymptotic theory of differential and integral equations (coord. P. Rehak and S. Matucci). Title: *Asymptotic stability of solutions of differential equations with delay*.

Topological Methods in Nonlinear Analysis: Recent Advances, Professeur Andrzej Granas Memorial Conference, Montréal, Canada, and online, July 4-8, 2022. Title: *Existence and asymptotic stability of solutions of differential equations with delay*.

Recent advances on dynamical equations to celebrate Luisa Malaguti 60th birthday, Ancona, October 24-25, 2019. Title: *Nonlinear differential models via topological methods*.

XXI congresso dell'Unione Matematica Italiana, Pavia (Italy), September 2-7, 2019, S3: Equazioni Differenziali Ordinarie e Sistemi Dinamici (coord. G. Bonanno and A. Sorrentino). Title: *Sulle dinamiche generate in presenza di impulsi da alcune classi di equazioni differenziali con ritardo*.

BiUrb Recent advances in variational methods, Urbino (Italy), May 30-31, 2019. Title: *Topological methods in differential equations*.

## PhD activity

Member of the Collegio Docenti of Dottorato in Matematica, Informatica, Statistica, Firenze-Perugia-Indam, Curriculum di MATEMATICA, XXXVII ciclo (a.y. 2021/22) - today

Teacher of a 15 hours-slot to "Topological Methods for Differential Equations", PhD program of Dottorato in Matematica, Informatica, Statistica, Firenze-Perugia-Indam, Curriculum di MATEMATICA, XXXVII ciclo and XXXVIII ciclo, a.y. 2021/22 and 2022/23

Teacher of a 15 hours-slot to "EDO semilineari in spazi di Banach e applicazioni", PhD program of Dottorato in Matematica, Informatica, Statistica, Firenze-Perugia-Indam, Curriculum di MATEMATICA, XXXVI ciclo, a.y. 2020/21

Commissioner in the PhD final examination of the Dottorato in Matematica, Informatica, Statistica, Firenze-Perugia-Indam, Curriculum di MATEMATICA (16/04/21; 08/06/21; 20/09/21)

Referee to the PhD Thesis by Dr. Francesco Salvatore Genoese (supervisor Prof. Filippo Domenico Cammaroto), University consortium Catania-Messina-Palermo

Referee to the PhD Thesis by Dr. Hajer Garbout (supervisor Prof. Afif Ben Amar), Ecole doctorale des sciences fondamentales, Université de Sfax, Tunisie

Supervisor of the PhD Thesis by Dr. Francesco Portigiani (defended: 12/02/2009), University of Modena e Reggio Emilia

## Institutional teaching activity

Analisi matematica I, Degree in Physics, 2022/23-today

Analisi Matematica II, Degree in Computer Science and Electronic Engineering, 2000/01-2021/22

Analisi Matematica mod.I, Degree in Computer Science, 2018/19-today

Matematica 1, Degree in Chemistry, 2018/19

Matematica 2, Degree in Chemistry, 2023/24

Matematica 2, Degree in Mechanical Engineering, 2000/01-2011/12

Matematica e statistica, Degree in Biological Sciences, 2014/15

## Other teaching activity

Introductory courses for the engineering degrees, 2013/14, 2015/16-2022/23

Co-teacher of "Didattica della Matematica per Ingegneria" for "Tutorato di Ingegneria", Department of Engineering, University of Perugia, project INGEGNERIA.POT , 2019/20

Collaborator for the didactics of the courses "Analisi Matematica I" and "Metodi Matematici per l'Ingegneria", Degree in Electronic Engineering and Mechanical Engineering, Faculty of Engineering, University of Perugia, 1996/97

Supply teacher of Mathematics and Physics at some High Schools, 1993/94-1996/97

Temporary Professor of "Analisi Matematica I" and "Analisi Matematica II", Corso di Diploma Universitario in Ingegneria Aerospaziale, Faculty of Engineering, University of Perugia, 1992/93

## Other professional activities and informations

Commissioner in a competition for a position of Researcher (RTDB) at the University of Palermo, 08/11/2022-25/01/2023

Commissioner in a competition for a position of Researcher (RTDB) at the University of Florence, 26/09/2019-28/01/2020

Commissioner in a competition for a position of Researcher (RTDB) at the Polytechnical University of Ancona, 9/11-12/12/2018

Seminary (invited): "A topological approach to some differential problems arising from applied science models" (su invito), within the period as visiting professor at the Department of Mathematics and Computer Science of the University of Calabria, 20-23/03/2023

Seminary (invited): "A unified approach to the study of some equations arising from models of applied sciences", within the activity *Seminari* of the Department of Mathematics and Informatics of the University of Florence, Florence, 16/12/2022

Dissemination activity: seminars "Il testo scientifico" at Liceo Scientifico "G.Alessi", Perugia, 2018/19

Beneficiary of funding FFABR (Fondo per il Finanziamento delle Attività Base di Ricerca): Ricercatori - year 2017

Referee for international scientific projects

Member of REPRISE (register of scientific experts established at the Italian Ministry of University and Research) for the section: Basic research, 2018/03/21-today

Member of the register of auditors of MIUR, years 2013, 2014

Referee for international journals

Reviewer for Mathematical Reviews and Zentralblatt für Mathematik

Member of the European Mathematical Society (EMS)

Member of the Istituto Nazionale di Alta Matematica (INdAM), Gruppo Nazionale per l'Analisi Matematica, la Probabilità e le loro Applicazioni (GNAMPA), sez. 1. Equazioni Differenziali e Sistemi Dinamici

Member of the Unione Matematica Italiana (UMI) and of the UMI group "Teoria dell'Approssimazione e Applicazioni (TAA)"

Perugia, August 31, 2023

## Publications (last 5 years)

Cardinali, T.; Matucci, S.; Rubbioni, P.; Controllability of nonlinear integral equations of Chandrasekhar type, *J. Fixed Point Theory Appl.* 24:58 (2022), DOI :10.1007/s11784-022-00974-5.

Precup, R.; Rubbioni, P.; Stationary solutions of Fokker-Planck equations with nonlinear reaction terms in bounded domains, *Potential Anal.* 57 (2022), no. 2, 181–199, DOI: 10.1007/s11118-021-09911-6

Rubbioni, P.; Solvability for a Class of Integro-Differential Inclusions Subject to Impulses on the Half-Line, *Mathematics* 2022, 10(2), 224, DOI: 10.3390/math10020224

Rubbioni, P.; Asymptotic stability of solutions for some classes of impulsive differential equations with distributed delay, *Nonlinear Anal. Real World Appl.* 61 (2021), 103324, DOI: 10.1016/j.nonrwa.2021.103324

Cardinali, T.; Rubbioni, P.; Hereditary Evolution Processes Under Impulsive Effects. *Mediterr. J. Math.* 18, 91 (2021), DOI: 10.1007/s00009-021-01730-8

Cardinali, T.; Rubbioni, P.; Existence theorems for generalized nonlinear quadratic integral equations via a new fixed point result, *Discr. Cont. Dyn. Sys. - Series S*, 13, No. 7, 1947-1955 (2020), DOI: 10.3934/dcdss.2020152

Benedetti, I.; Cardinali, T.; Gabor, G.; Rubbioni, P.; Lyapunov pairs in semilinear differential problems with state-dependent impulses, *Set-Valued Var. Anal.* 27, No. 2, 585-604 (2019), DOI: 10.1007/s11228-018-0490-7

Cardinali, T.; Rubbioni, P.; The controllability of an impulsive integro-differential process with nonlocal feedback controls, *Appl. Math. Comput.* 347, 29-39 (2019), DOI: 10.1016/j.amc.2018.10.083

Cardinali, T.; Precup, R.; Rubbioni, P.; Two abstract approaches in vectorial fixed point theory, *Quaest. Math.* 41, No. 2, 173-188 (2018), DOI: 10.2989/16073606.2017.1376002

### Interdisciplinary publications:

De Socio, G.V.; Rubbioni, P.; Botta, D.; Cenci, E.; Belati, A.; Paggi, R.; Pasticci, M.B.; Mencacci, A.; Measurement and prediction of antimicrobial resistance in bloodstream infections by ESKAPE pathogens and *Escherichia coli*, *Journal of Global Antimicrobial Resistance*, 19, 154-160 (2019), DOI: 10.1016/j.jgar.2019.05.013