

CURRICULUM VITAE

PERSONAL INFORMATION

Surname / First name **FILIPPUCCI ROBERTA**

Address Dipartimento di Matematica e Informatica
Via Vanvitelli 1, 06123, PERUGIA

Telephone +39 3333981286

Fax +39 0755855024

Email roberta.filippucci@unipg.it

Nationality Italian

Place and date of birth Foligno (PG), Italy, 17/06/1969

EDUCATION

Ph.D Ph.D degree in Mathematics il 05/03/2002 at University of Firenze.
Title of the thesis: *"Existence and non existence for quasivariational systems with applications to elliptic systems"*,
supervisor Prof. P. Pucci.

Degree University Degree (Laurea) in Mathematics at the University of
Perugia, 23/04/1993, with the grade 110/110 and laudem. Title
of the thesis: *"Teoremi di non esistenza per equazioni variazionali
nonlineari"*, supervisor Prof. P. Pucci;

Secondary education Graduated on July 1988 at the Liceo Scientifico Statale "G.
Marconi" of Foligno with the grade 60/60;

ACADEMIC POSITIONS

Date July, 15, 2024 -
Position Full Professor in Mathematical Analysis
Institution University of Perugia, Dipartimento di Matematica e Informatica

Date October 2013 - July, 14, 2024
Position Associate Professor in Mathematical Analysis
Institution University of Perugia, Dipartimento di Matematica e Informatica

Date November 2001- September 2013
Position Researcher in Mathematical Analysis (maternity leave from
6/05/02 to 13/02/03)
Institution University of Perugia, Dipartimento di Matematica e Informatica

Date March 2001- October 2001
Position Post-doc fellow
Institution Dipartimento di Matematica e Informatica, University of Perugia
Title of the project *"Argomenti di Analisi nonlineare"*. Supervisor: Prof. P. Pucci.

SCHOLARSHIP, PRIZES AND COMPETITION

1993 *Prize tesi di laurea* from Fondazione Francesco Severi c/o Banca
Popolare dell'Etruria e del Lazio;

1994/1995 scholarship of the Istituto Nazionale di Alta Matematica INdAM
(final score A);

1995/1996 winner of the scholarship of the Consiglio Nazionale delle Ricerche
(CNR) in Mathematical Analysis, but I did not use;

- 2000/2001 I position in the final regional score (Umbria region) of the competition for teaching Mathematics in statal high school, on 2000 and so from 5/12/00 to 28/02/01 taught Mathematics at I.P.S.I.A., Foligno (PG);
- 2018 habilitation for full professor - SSD 01/A3 - Analisi Matematica, Probabilità e Statistica Matematica, deadline 27/07/2028
- 2024 Included in the World's Top 2% scientists, according Stanford University, 2024

RESEARCH SEMINARS AND CONFERENCES

- Talks
- "Equazioni a derivate parziali"*, Dipartimento di Matematica di Bologna, 6-8/ 06/ 1994
- XV Convegno U.M.I., Padova, 10-16/09/1995
- XVI Convegno U.M.I., svoltosi a Napoli nei giorni 13-18/09/1999
- XVII Convegno U.M.I., Milano, 8-13/09/2003.
- II *Convegno Annuale del Dipartimento di Matematica e Informatica*, svoltosi a Perugia nei giorni 3-4/10/2003
- IV *Convegno Annuale del Dipartimento di Matematica e Informatica*, Perugia 13-14/01/06
- Invited talks
- "Non linear partial differential equations and connected geometrical problems"*, Grado, 2-4/09/2003
- Miniworkshop of the School in Nonlinear Analysis and Calculus of Variations*, Pisa, 21-22/10/2005
- Workshop *"Non linear elliptic and parabolic problems II "*, Grado, 1-3 /09/ 2005
- 6th AIMS *International Conference on Dynamical Systems, Differential Equations and Applications*, Università di Poitiers, Francia, 25-28/06/2006
- "Liouville theorems and detours"*, Cortona, 19-23/05/08
- The First Bicocca Junior Workshop on Nonlinear PDEs and Variational Methods*, Università Bicocca, Milano, 18-19/06/2009
- "Second Meeting of women of the Laplacian"*, Monopoli, 3-6/06/ 2010
- "Variational and perturbative methods for nonlinear differential equations"*, Venezia, 20-22/01/2011.
- "Equazioni alle Derivate Parziali"*, Politecnico di Milano, 13-15/09/2012
- "10th AIMS Conference on Dynamical Systems, Differential Equations and Applications"*, ICMAT Madrid, Spain, 7-11/07/2014, n.2 talks in the sessions SS34 and SS40;
- "Conference on Nonlinear Operators, Differential Equations and Applications"* Universitatea Babes-Bolyai, 14-17/07/2015, Cluj-Napoca, Romania
- "Two-day meeting on PDEs"*, Perugia 23-24/05/2017
- "Workshop on nonlinear Analysis on the occasion of the 65th birthday of Patrizia Pucci"*, Universitatea Babes-Bolyai, 25/05/2017, Cluj-Napoca, Romania

"Two Nonlinear Days in Perugia on the occasion of the 65th birthday of Patrizia Pucci", Perugia 11-12/01/2018

"Variational methods in analysis, geometry and physics", Pisa 12-16/02/2018

"Recent Advances in Nonlinear Analysis on the occasion of Vicentiu Radulescu 60th anniversary" Levico Terme 28-30/05/2018

"BiUrb - Recent advances in variational methods", Urbino 30-31/05/2019

"Nonlinear PDEs and Applications on the occasion of the retirement of Professor Maria Cesarina Salvatori" Perugia 3-5/02/2020

Webinar on PDE and related areas by Indian Institute of Technology, 17/09/2020, Kanpur (IIT-K), IISER-Kolkata, IISER-Pune, and TIFR-CAM.

Workshop on PDE and Applications GNAMPA Research Project 2020
"Equazioni alle derivate parziali: problemi e modelli", Perugia 18/06/2021

RISM Congress *"Analysis and PDE"* on the occasion of Vicentiu Radulescu's 65th birthday, RISM, Varese, 28-31/05/23

"14th AIMS Conference" at NYU Abu Dhabi, 16-20/12/2024, n.2 talks in sessions SS77 "Recent developments in variational problems and geometric analysis" and SS113 "New Achievements in Nonlinear PDEs and Applications"

"Differential Geometry, Analysis and Epistemology in Milan, a conference in honor of Marco Rigoli's 70th birthday", Milano, 16-20/06/25

seminars at universities
or research centers

Bolyai Institute, University of Szeged, Ungheria, 03/08/2006

Università degli Studi di Firenze, 07/03/2011.

Institut de Mathématiques Élie Cartan, Université de Lorraine, Francia, 04/07/2011

Departamento de Analisis Matemático, Università di Granada, Spagna, 26/04/2014

Institute of Mathematics Polish Academy of Sciences, Warsaw, 30/03/23

School of Mathematics, Trinity College, Dublin, 21/03/24

Sapienza, Università di Roma, 31/10/24

School of Mathematical Sciences at Nankai University, Tianjin, China, 02/05/25

School of Mathematics, East China University of Science and Technology, Shanghai, China, 06/05/25

RESEARCH VISITS ABROAD

Date	from 23/07 to 6/08/2006
Istitution	<i>Bolyai Institute of the University of Szeged, Ungary,</i>
Date	from 3 to 16/07/2011
Istitution	<i>Institut Elie Cartan de Nancy, France</i>

Date	from 20 to 27/04/2014
Istitution	Departamento de Analisis Matemático, Universidad de Granada, Spain
Date	from 27/03/23 al 2/04/23
Istitution	Institute of Mathematics, Polish Academy of Sciences, Warsaw
Date	from 20/03/24 al 23/03/24
Istitution	School of Mathematics, Trinity College, Dublin
Date	dal 27/04/25 al 02/05/25
Istitution	School of Mathematical Sciences at Nankai University, Tianjin, China
Date	dal 03/05/25 al 07/05/25
Istitution	School of Mathematics, East China University of Science and Technology, Shanghai, China
Date	dal 2/07/25 al 16/07/25
Istitution	ICTP Abdus Salam International Centre for Theoretical Physics, Trieste

TEACHING

Undergraduated courses (University of Perugia)	a.a. 1999/2000 e 2000/2001: module of Mathematical Analysis inside the course "<i>Elementi di Matematica e Informatica</i>", D.U. in Coordinamento delle Attività di Protezione Civile; Science Faculty a.a. 2001/02: <i>Matematica 2</i> (3 C.F.U. – I sem), Degree in Earth Science ; Science Faculty a.a. 2002/03: Mathematical Analysis 6 (modulo da 5 CFU su 7,5- II sem), Degree in Mathematics; Science Faculty; a.a. 2003/04: <i>Precorsi for Degrees in Chemistry and Computer Science</i>, Science Faculty (from 15/09/03 to 26/09/03); from a.a. 2003/04 to a.a. 2007/2008: <i>Numerical Analysis 3</i> (5,5 CFU - II sem), Master Degree in Mathematics, Science Faculty; from a.a. 2004/05 to a.a. 2008/2009: <i>Complements of Mathematics</i> (4 CFU - I sem), Master Degree in Earth Science, Science Faculty; a.a. 2005/06: <i>Superior Analysis: Part II</i> (module of 3,5 CFU - I sem), Master Degree in Mathematics; Science Faculty; a.a. 2006/07 Mathematical Analysis 5 (7,5 CFU – I sem), Master Degree in Mathematics, Science Faculty; a.a. 2007/2008, 2008/09, 2009/2010: <i>Metodi Matematici per l'Economia</i> (7,5 CFU - I sem), Degree in Mathematics for Applications, Science Faculty; a.a. 2009/10, 2010/2011, 2011/2012, 2012/2013, 2013/2014, 2014/2015: <i>Geomatematica</i> (6 CFU - I sem), Master Degree in Earth Science ; a.a. 2010/11: Mathematical Analysis 3 (6 CFU- II sem), Degree in Mathematics, Science Faculty; a.a. 2011/12: <i>Mathematics for Natural Science</i> (6 CFU- I sem), Degree in Natural Science, Science Faculty; a. a. 2017/2018 <i>Elements of mathematics</i> (3 CFU - I sem) Master Degree in Pharmacy.
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University Teacher Training	a.a. 2020/21 Mathematical Physics I (6 CFU - II sem.), Degree in Mathematics;
	from a.a. 2011/12 until now taught <i>Mathematical Analysis III</i> (9 CFU - II sem), Degree in Mathematics.
	from a.a. 2011/12 until 2022/23 taught <i>Mathematics for Applications</i> (6 CFU - I sem), Degree in Biotechnology.
	from a.a. 2018/2019 until now taught <i>Modern Analysis III</i> (6 CFU-I sem), Master Degree in Mathematics.
	from a.a. 2023/24 until now taught <i>Mathematics for Applications</i> (7 CFU - I sem), Degree in Biotechnology.
Tutorials for Undergraduated courses (University of Perugia)	a.a. 2024/25 and 2025/26, <i>Elements of mathematics</i> (4 CFU) and <i>Mathematics Laboratory for Data Management</i> (1CFU), CdL professionalizzante in Metodologie per prodotto e per processo.
	a.a. 2023/24 <i>Progettazione didattica in ambito matematico (MAT/05)</i> (4 CFU) for teachers of upper secondary education in Mathematics and Physics
	a.a. 2024/25 <i>Progettazione didattica in ambito matematico (MAT/05)</i> (4 CFU) for teachers of upper secondary education in Mathematics and Physics (A027) and Physics (A020)
	a.a. 2003/04, exercise part for Mathematical Analysis 1 (2 CFU - I sem), Degree in Mathematics and Degree in Physics, Science Faculty;
	1994/1995, 1995/96 e 1996/97: exercise part for Mathematical Analysis I, Degree in Civil Engineering, Faculty of Engineering;
Supervisor degree theses in Mathematics	a.a. 1993/1994, 1994/1995 e 1995/1996: member of the examination board of Mathematical Analysis I--II and Mathematical Methods for Engineering, Faculty of Engineering of Perugia and Terni and of Istituzioni di Fisica Matematica, Numerical Analysis and Calculus of Variations of the Science Faculty of Perugia, Degree in Mathematics;
	a.a. 1998/1999, 1999/2000, 2000/2001: exercise part and tutorials, as PhD student, for Mathematical Analysis II, Degree in Mathematics and Degree in Physics, Science Faculty;
	Supervisor of 28 theses since 2008/09
Supervisor Master degree theses in Mathematics	Supervisor of 12 Master Degree theses since 2011/12
Supervisor PhD theses in Mathematics	Laura BALDELLI, Dottorato consortile in Matematica dell'Università di Firenze, Università di Perugia e INdAM, XXXIV ciclo, 2018-2021
Hosting supervisor	Yadong ZENG, PhD Joint Training Program between University of Nankai, Tianjin, China e Università di Perugia dal 9/04/23 al 9/02/25.
	Yongheng QIN, PhD Joint Training Program between University of Nankai, Tianjin, China e Università di Perugia dal 1/09/25 al 31/08/26.
RESEARCH ACTIVITY	
PI of research projects	Progetto GNAMPA-INDAM 2022: "Equazioni Differenziali alle derivate parziali in fenomeni non lineari" (Partecipanti: A. Fiscella, A. Maione, M. Marras, A. Nastasi, F. Paronetto, P. Pucci, S. Secchi)

ICTP-INDAM Collaborative Grants and Research in Pairs - 2025 (2-16/07/25) at International Centre for Theoretical Physics (ICTP), Trieste, Italy. (R. Filippucci for Italy, M. Bhakta for India)

Member of research projects

Since 1995, member of Gruppo Nazionale per l'Analisi Matematica, la Probabilità e loro Applicazioni (GNAMPA), Istituto Nazionale di Alta Matematica (INDAM).

Research project Contributi C.N.R. 1997 e 1998 Modelli e Metodi per la Matematica e l'Ingegneria (P.I. P. Pucci);

Ex 60% MURST 1997 Analisi Non Lineare e Sistemi di Equazioni Differenziali (P.I. P. Pucci);

Progetto di Ateneo 1998 e 1999 Analisi Non Lineare (P.I. P. Pucci);

Progetto Vigoni 1998 Problemi agli autovalori ellittici semilineari (principal investigator Prof. P. Pucci);

Research project MIUR 2000, 2002, 2004, 2006: Problemi ellittici quasilineari e questioni collegate (local investigator Prof. P. Pucci, principal investigator Prof. A. Ambrosetti);

Research project INdAM, GNAMPA 2002 Equazioni Differenziali Non Lineari di Tipo Ellittico e Parabolico, (P.I. E. Mitidieri)

Research project INdAM, GNAMPA 2003 Equazioni Differenziali Non Lineari, (P.I. P. Pucci);

International project 2004-2006 e rinnovo 2007-2009, to the agreement on CNR/MTA, Perugia/Szeged; Pucci/Hatvani; Italia/Ungheria.

Research project PRIN MIUR 2009 Quasilinear Elliptic Problems and related questions (local P.I. P. Pucci, national P.I. A. Malchiodi).

Research project PRIN MIUR 2012 (08/03/2014-08/03/2017) Quasilinear Elliptic Problems and related questions (local P.I. P. Pucci, national P.I. S. Terracini).

Research project PRIN MIUR 2015 (05/02/2017-05/02/2020) Variational methods, with applications to problems in mathematical physics and geometry (local P.I. P. Pucci, national P.I. A. Malchiodi)

Research project INdAM, GNAMPA 2016 "Nonlocal quasilinear operators in presence of singularities", (P.I. D. Mugnai)

Research project INdAM, GNAMPA 2017 "Equazioni Differenziali non lineari", (P.I. P. Pucci)

Research project INdAM, GNAMPA 2018 "Problemi nonlineari alle derivate parziali", (P.I. D. Mugnai)

Research project INdAM, GNAMPA 2020 "Equazioni alle derivate parziali: problemi e modelli", (P.I. P. Pucci)

Research project GNAMPA-INDAM 2023 Equazioni differenziali alle derivate parziali nella modellizzazione di fenomeni reali, (P.I. M. Marras)

Research project PRIN 2022 "Advanced theoretical aspects in PDEs and their applications", (local P.I. E. Vitillaro, national P.I. G. Molica Bisci)

Hosting visiting professors Hosting visiting professor prof. Chao JI della School of Mathematics, East China University of Science and Technology Shanghai, China from 12/07/2024 to 11/08/2024, University of Perugia within GNAMPA project for visiting professors (deadline application 30/04/2024)

**ORGANIZATION OF
INTERNATIONAL
CONFERENCES**

Organizer, together with Laura Baldelli, of the special session SS117 "Advances on nonlinear elliptic PDEs" at 14th AIMS Conference at NYU Abu Dhabi, 16-20/12/2024

Member of the Organizing Committee of the *Workshop* "Two Nonlinear days", PRIN 2022 project: "Advanced theoretical aspects in PDEs and their applications", 17-18/05/2024

Head of the the Local Organizing Committee of the Scuola Matematica Interuniversitaria (SMI) 2020 (online version), 2021 (online version), 2022, 2023, 2024, 2025 and 2026

Member of the Local Organizing Committee of the Scuola Matematica Interuniversitaria (SMI) in the years 2014, 2015, 2016, 2017, 2018, 2019

Member of the Local Organizing Committee of the INdAM intensive courses for students with fellowship in the years 2014, 2015, 2016, 2017 2018 and 2019.

Member of the Local Organizing Committee of the INdAM day 2016, Perugia 08/06/2016.

Member of the Organizing Committee of the *Workshop on Nonlinear Partial Differential Equations, on the occasion of the sixtieth birthday of Patrizia Pucci*, 28/05-1/06/2012, Perugia.

REFeree ACTIVITY

Member of the editorial board of The Open Mathematics Journal until 2015

Member of the editorial board of the Annals of University of Craiova Mathematics and Computer Series from 2018.

Selected by National Research and Development Agency (ANID) of the Ministry of Science, Technology, Knowledge and Innovation of Chile to evaluate national research projects in 2021 e 2022.

Selected by National Science Centre Poland to evaluate national research projects in 2021 e 2022.

Referee for several journals, among them: Acta Mathematica Scientia, Acta Mathematica Sinica, English Series, Advances in Nonlinear Analysis, Advances in Nonlinear Studies, Analysis and Applications, Applicable Analysis, Applied Mathematics and Optimization, Applied Mathematics Letters, Archiv der Mathematik, Bulletin of the Brazilian Mathematical Society, Calculus of Variations PDE, Communications in Partial Differential Equations, Complex Variables and Elliptic Equations, Differential and Integral Equations, Electronical Journal of Differential Equations, Electronical Journal of Qualitative Theory of Differential Equations, Journal of Differential Equations, Journal of Geometric Analysis, Journal of Inequalities and Applications, Journal of Mathematical Analysis and Applications, Mathematische Annalen, Mathematische Nachrichten, Mathematics, Mediterranean Journal of Mathematics, Nonlinear Analysis Series A: Theory, Methods & Applications, Nonlinear Analysis Series B: Real World Applications, Nonlinearity Periodica Mathematica Hungarica, Proceedings of the Royal Society of Edinburgh A, Proceedings of the London Mathematical Society, Proceedings Mathematical Sciences, Rendiconti del Circolo Matematico di Palermo, Results in Applied Mathematics, Zeitschrift für Analysis und ihre Anwendungen Zeitschrift für angewandte Mathematik und Physik.

ACADEMICS APPOINTMENTS

Member of the Collegio Docenti of the PhD in "*Matematica, Informatica, Statistica*" Università degli Studi di Firenze, Università degli Studi di Perugia e INdAM, from 2022/2023 - Ciclo: 38-39-40

Member of the Collegio Docenti of the PhD in *Matematica e Informatica per l'elaborazione e la rappresentazione dell'informazione e della conoscenza* (ciclo XXVIII from 01/10/2012 to 30/9/2015)

External member of the PhD Committee for the final exam of XXXIV ciclo of PhD in MATHEMATICS at University of ROMA TRE

Member of the *Commissione Paritetica* of the Department of Mathematics and Computer Science, University of Perugia (from 02/04/2024)

Member of the *Commissione Orientamento* of the Department of Mathematics and Computer Science, University of Perugia from the a.a. 2014/15

Member of the *Commissione di Riesame* of the Degree in Biotechnology, University of Perugia, (from 26/07/22)

Member of the *Commissione di Riesame* of the PhD in "*Matematica, Informatica, Statistica*" Università degli Studi di Firenze, Università degli Studi di Perugia e INdAM, (from 16/01/25)

Member of the *Commissione di Riesame* of the Degree in Mathematics, University of Perugia, (from 20/02/13 to 26/09/2019)

Delegate of the Dean of the Mathematics and Computer Science Department for "Alternanza Scuola Lavoro" from 14/12/2016 to 31/10/2019

Member of the Academic Senate of the University of Perugia as representative for the category of Associate professors of the scientific, technological research area for the period 01/11/2019-31/10/2022 and 01/11/2022-14/07/2024

Delegate of the Dean of the Mathematics and Computer Science Department for Scuola Matematica Interuniversitaria (SMI) and "Percorsi per le Competenze Trasversali e di Orientamento (PCTO)" from 2019/2020.

Member of the board of directors of the University Center for Teacher Training (CAFDò), University of Perugia, from 27/06/2023

Head of the Teacher Training course for teachers of upper secondary education in "Mathematics and Physics" in a.a. 2023/24

Head of the Teacher Training courses for teachers of upper secondary education in "Mathematics and Physics" and in "Physics" in a.a. 2024/25

Member of the Committee "College Italia" of the University of Perugia from 25/03/2020

Member of the board of directors of the Interdepartmental Research Center "Lamberto Cesari" from 2024

Member of the board for the Quality Assurance in Higher Education of the Science Faculty of the University of Perugia (from 10/11/10 to 30/09/2013)

Supervisor for the Quality Assurance in Higher Education for the Degree in Mathematics of the University of Perugia (from 20/02/13 to 26/09/2019)

Member of the Committee for RTT position at University of Cagliari (D.R. n. 334 del 26.03.2025)

Member of the Committee for associate professor GSD 01/MATH-03- SSD MATH-03/B, art.24 comma 5, at University of Perugia, D.R. n. 1532/2025 del 11/06/2025

PUBLICATIONS

Papers in
international
journals

48. M. Bhakta, A. Biswas, R. Filippucci, *Liouville results for (p, q) -Laplacian elliptic equations with source terms involving gradient nonlinearities*, submitted, 31 pp.

47. M. Bhakta, A. Biswas, R. Filippucci, *Liouville properties for differential inequalities with (p,q) -Laplacian operator*, submitted, 20 pp.

46. L. Baldelli, R. Filippucci, D. Krejcirik, *Critical quasilinear Schrödinger with electromagnetic fields*, submitted, 29 pp.

45. R. Filippucci, Y. Zheng, *Existence and nonexistence of solutions for elliptic inequalities involving gradient terms and weights*, *Nonlinear Analysis TMA*, 262 (2026) 113951 22 pp.

44. R. Filippucci, Y. Zheng, *Nonexistence theorems for quasilinear elliptic equations with weights*, *Proc. Roy. Soc. Edinburgh Sect. A*, (2025) 33 pp. DOI: 10.1017/prm.2025.32

43. L. Baldelli, R. Filippucci, *A priori estimates for convective quasilinear equations and systems*, *Rend. Istit. Mat. Univ. Trieste*, Special Issue on the occasion of the 70th birthday of Enzo Mitidieri, 57 (2025) pp. 28

42. R. Filippucci, Y. Zheng, *Existence and nonexistence of solutions for the mean curvature equation with weights*, *Math. Ann.* 390 (2024), no. 4, 5821–5861.

41. **R. Filippucci, Y. Sun, Y. Zheng**, *A priori estimates and Liouville type results for quasilinear elliptic equations involving gradient terms*, *J. Anal. Math.* 153 (2024), no. 1, 367–400.
40. **L. Baldelli, R. Filippucci**, *Multiplicity results for a class of generalized quasilinear Schrödinger equations in R^N* , *NoDEA Nonlinear Differential Equations Appl.* 31 (2024) 31 pp.
39. **L. Baldelli, V. Brizi, R. Filippucci**, *Existence and nonexistence of positive radial solutions of a quasilinear Dirichlet problem with diffusion*, *J. Diff. Equations*, 359 (2023) 107–151.
38. **L. Baldelli, R. Filippucci**, *Existence of solutions for critical (p,q) -Laplacian equations in R^N* , *Commun. Contemp. Math.*, 25 (2023) 2150109 26 pp.
37. **R. Filippucci, M. Ghergu**, *Higher order evolution equations with nonlocal terms*, *Nonlinear Anal.*, 221 (2022) 112881, 17 pp.
36. **L. Baldelli, R. Filippucci**, *Singular quasilinear critical Schrodinger equations in R^N* , *Commun. Pure Appl. Anal.*, 21 (2022) 2561–2586
35. **L. Baldelli, Y. Brizi, R. Filippucci**, *On symmetric solutions for (p,q) -Laplacian equations in R^N with critical terms*, *Journal of Geometric Analysis*, 32 (2022) 21 pp.
34. **R. Filippucci, M. Ghergu**, *Fujita type results for quasilinear parabolic inequalities with nonlocal terms*, *Discrete Contin. Dyn. Syst.*, 42 (2022) 1817–1833.
33. **L. Baldelli, Y. Brizi, R. Filippucci**, *Multiplicity results for (p,q) -Laplacian equations with critical exponent in R^N and negative energy*, *Calc. Var. Partial Differential Equations*, 60 (2021), 30 pp.
32. **R. Filippucci, M. Ghergu**, *Singular solutions for coercive quasilinear elliptic inequalities with nonlocal terms*, *Nonlinear Anal.*, 197 (2020), 111857, 22 pp.
31. **L. Baldelli, R. Filippucci**, *Existence results for elliptic problems via a priori estimates*, *Nonlinear Anal.*, 198 (2020), 111894, 22 pp.
30. **R. Filippucci, P. Pucci, P. Souplet**, *A Liouville-type theorem in a half-space and its applications to the gradient blow-up behavior for superquadratic diffusive Hamilton-Jacobi equations*, *Comm. Partial Differential Equations*, 45 (2020) 321–349
29. **R. Filippucci, P. Pucci, P. Souplet**, *A Liouville-type theorem for an elliptic equation with superquadratic growth in the gradient*, *Adv. Nonlinear Stud.*, Special Issue on the occasion of the 70th birthday of Laurent Véron, 20 (2020), 245–251.
28. **R. Filippucci, S. Lombardi**, *Fujita type results for parabolic inequalities with gradient terms*, *J. Diff. Equations*, 268 (2020) 1873–1910
27. **S. Bordonì, R. Filippucci, P. Pucci**, *Existence problems on Heisenberg groups involving Hardy and critical terms*, *Journal of Geometric Analysis*, Special Issue "Perspectives of Geometric Analysis in PDEs" 30 (2020) 1887–1917
26. **L. Baldelli, R. Filippucci**, *A priori estimates for elliptic problems via Liouville type theorems*, *Discrete Contin. Dyn. Syst. Ser. S*, Special Issue on the occasion of the 65th birthday of Patrizia Pucci, 13 (2020) 1883–1898
25. **R. Filippucci, C. Lini**, *Existence results and a priori estimates for solutions of quasilinear problems with gradient terms*, 39 *Opuscula Math.* (2019) 195–206

- 24. R. Filippucci, C. Lini**, *Existence of solutions for quasilinear Dirichlet problems with gradient terms*, Discrete Contin. Dyn. Syst. Ser. S, Special Issue on the occasion of the 60th birthday of Vicentiu Radulescu, 12 (2019)
- 23. R. Filippucci, F. Vinti**, *Coercive elliptic systems with gradient terms*, Advances in Nonlinear Analysis, 6 (2017), 165-182.
- 22. R. Filippucci, P. Pucci, C. Varga**, *Symmetry and multiple solutions for certain elliptic equations*, Adv. Diff. Equations, 20 (2015), 601-634.
- 21. S. Bordoni, R. Filippucci, P. Pucci**, *Nonlinear elliptic inequalities with gradient terms on the Heisenberg group*, Nonlinear Anal., 121 (2015) 262-279
- 20. R. Filippucci**, *Quasilinear elliptic systems in R^N with multipower forcing terms depending on the gradient*, J. Diff. Equations, 255 (2013) 1839-1866.
- 19. R. Filippucci**, *A Liouville result on a half space*, "Recent Trends in Nonlinear PDEs, dedicated to Patrizia Pucci on the Occasion of her 60th Birthday", Contemporary Mathematics Series AMS, Honorary Editor: J. Serrin; Editors: E. Mitidieri, V. Radulescu 295 (2013), 237-252.
- 18. R. Filippucci**, *Nonexistence of positive weak solutions of elliptic systems of divergence type*, J. Diff. Equations, 250 (2011), 572-595.
- 17. R. Filippucci, P. Pucci and M. Rigoli**, *Nonlinear weighted p -Laplacian elliptic inequalities with gradient terms*, Comm. Contemp. Math. 12 (2010), 501-535.
- 16. R. Filippucci, P. Pucci and M. Rigoli**, *On entire solutions of degenerate elliptic differential inequalities with nonlinear gradient terms*, J. Math. Anal. Appl., 356 (2009), 689-697.
- 15. R. Filippucci, P. Pucci and M. Rigoli**, *On weak solutions of nonlinear weighted p -Laplacian elliptic inequalities*, Nonlinear Anal., 70 (2009), 3008-3019.
- 14. R. Filippucci**, *Nonexistence of positive weak solutions of elliptic inequalities*, Nonlinear Anal., 70 (2009), 2903-2916.
- 13. R. Filippucci, P. Pucci and F. Robert**, *On a p -Laplace equation with multiple critical nonlinearities*, J. Math. Pures Appl., 91 (2009), 156-177.
- 12. R. Filippucci, P. Pucci and M. Rigoli**, *Non--existence of entire solutions of degenerate elliptic inequalities with weights*, , Archive Rat. Mech.Anal., 188 (2008), 155-179; Erratum, Archive Rat. Mech.Anal., 188 (2008), 181.
- 11. R. Filippucci, P. Pucci and V. Radulescu**, *Existence and non--existence results for quasilinear elliptic exterior problems with nonlinear boundary conditions*, Comm. Partial Diff. Equations, 33 (2008), 706-717.
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Roberta Filippucci

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