

## CURRICULUM OF FILOMENA PACELLA

**Current position** : full professor of Mathematical Analysis since 1990 at the University of Roma "Sapienza".

**Previous Positions** : Associate Professor of Mathematical Analysis at the University of Roma "La Sapienza" (1988 – 1990) – Researcher at the University of Napoli (1981 –1988) – Researcher at the University of Paris Dauphine (1988) Research Associate at the Department of Mathematics of the University of Wisconsin (Madison –USA) (1984).

**Phd students** : Grossi M. (thesis defended in 1993), Damascelli L.( thesis defended in 1998), Cerqueti K.( thesis defended in 2000), Gladiali F.( thesis defended in 2002),Castorina D.( thesis defended in 2005),Iacopetti A. (thesis defended in 2015), Stolnicki D. (2019-), Gregorin Afonso D. (2020-)

**Recent postdocs** : C.Grumbier , D.Salazar, F.De Marchis, G.Vaira, G.Galise, G.Tralli, G. Saller Nornberg.

### Research activity at:

Université Paris VI; CEREMADE - Université Paris I-Dauphine; Courant Inst. NYU; Rutgers University; Univ. of Wisconsin-Madison;Univ. of Minnesota, Minneapolis; Carnegie-Mellon Univ.; Tata Inst.Fund. Research, Bangalore (India) - UNAM (Mexico City)- Karlsruher Institut für Technologie (KIT).

### Invited speaker in many national and international meetings. Some of the recent ones are :

Talk at the ETH (Zurich – March 2021)

Plenary Talk at the XIII Summer Workshop in Mathematics (Brasilia – February 2021)

Rio de Janeiro Webinars on Analysis and PDE, (PUC-Rio de Janeiro – May 2020)

Geometry and PDE in front of the Alhambra (January 2019 – Granada)

Advances and Challenges in Nonlinear Analysis ... and Beyond! (September 2019 - Bari)

Nonlinear Days in Alghero ( September 2019 - Alghero)

ICM 2018 Satellite conference on Nonlinear Partial Differential Equations (July 2018 – Brazil)

Variational Problems arising from Physics and Geometry (July 2018 - Rauschholzhausen Castle, Germany)

Nonlinear Analysis and PDEs (September 2018 – Caserta)

Workshop on Nonlinear Differential Equations (September 2017 – Brasilia)

BIRS workshop "Mostly Maximum Principle" (April 2017 – Banff)

Workshop "James SERRIN: from His legacy to the new frontiers" (February 2017 – Perugia)

BIRS workshop "Asymptotic Patterns in Variational Problems: PDE and Geometric Aspects" (September 2016 – Oaxaca).

Nonlinear Partial Differential Equations and Mathematical Physics Workshop ( December 2016 - Tsinghua Sanya International Mathematics Forum, China)

RISM school on "Nonlinear Phenomena in Mathematics and Economics", ( Varese September 14-18 -2015)

Nonlinear PDE arising from Geometry and Physics, (to honour A. Bahri) ( Hammamet, Tunisia, March 20-29, 2015)

ICMC Meeting on Differential Equations (Sao Carlos-Brasil , Feb.2014).

Conference on "Nonlinear PDE, Functional Analysis and Appl. (UBC – Vancouver , July 2013)

Workshop on "Concentration phenomena in nonlinear PDE" ( Mittag-Leffler Inst. –Stockolm ,May 2013)

Conference on “Nonlinear Elliptic and Parabolic P.D.E (Milano, June 2013)

International Workshop on “Variational and Topological Methods in Nonlinear Phenomena” (Alghero, June 2013)

Workshop on "Singular limit problems in nonlinear PDE's", Nov. 2012, CIRM Luminy.

Workshop on Nonlinear P.D.E. (Perugia- Jun.2012)

Workshop in D.E. (João Pessoa-Paraiba-Brazil-Sept. 2012).

Workshop on “Cocompact Imbeddings, Profile Decompositions, and their Applications to PDE ” (Tata Inst. – Bangalore, Jan. 2012)

Recent Trends in Nonlinear Elliptic P.D.E.(Tata Inst.-Bangalore, Jan. 2011)

Workshop on Variational Methods (Oaxaca-Mexico, Oct.2010)

Riemann School in Math. (Verbania , Oct. 2010)

Variational and Topological Methods in Nonlinear Phenomena (Cortona-Italy, Sept.2010)

Americas VIII (Veracruz – Mexico, Oct. 2009)

International conference in D.E. (Tata Inst., Bangalore, Jan.2009)

Intern. Workshop Numerical Verification and Appl. (Okinawa, March 2008)

Americas VII (Cartagena, Jul. 2007)

Joint Meeting UMI (Unione Mat. Italiana) –DMV (German Math. Soc.), (Perugia, June 2007)

Workshop on Nonlinear D.E.(Campinas, June 2004)

Panamerican Adv. Study Inst. on P.D.E. (Jan. 2003,Santiago del Chile)

Symposium on P.D.E(Perugia-2002)

Mathematisches Forschungsinstitut(Oberwolfach-1985 ,2002, 2005, 2009)

**Organizer and/or Scientific advisor of several conferences among which:**

Geometric and Analytical Aspects of Nonlinear Elliptic Equations and Related Evolution Problems

Oaxaca – BIRS- May 2020 (moved to 2022, because of COVID pandemic).

Nonlinear PDE arising from Geometry and Physics, (to honour A. Bahri) ( Hammamet, Tunisia, March , 2015)

Workshop on Nonlinear P.D.E. (Perugia- Jun.2012)

INDAM Workshop : Theoretical and computational methods in nonlinear D.E., (Bertinoro-Italy, Sept. 2009)

Workshop on Variational Methods (Oaxaca-Mexico, Oct.2010)

Workshop on Nonlinear D.E. (Pienza-Italy, November 2011)

**EDITOR of :**

- Nonlinear Analysis, Real World Applications
- Boletín Sociedad Matemática Mexicana

**Academic prize in 1987 from “Accademia di Scienze Fisiche e Matematiche della Societa’ Nazionale di Scienze, Lettere ed Arti”**

**Research field:** Nonlinear P.D.E.

**Author or co-author of more than 100 publications and co-author of the books :**

L.Damascelli – F.Pacella, Morse Index of Solutions of Nonlinear Elliptic Equations , *de Gruyter Series in Nonlinear Analysis and Applications (De Gruyter 2019)*.

L.Maia – G.Nornberg - F.Pacella, A Dynamical System Approach for Lane Emden type problems, *ed. IMPA (2021)*

**Citations (July 2021) : 1310 by 615 authors, H-index 18 (MathSciNet)**