

FABIANA LEONI
Curriculum Vitae

Part I – Education

<i>Type</i>	<i>Year</i>	<i>Institution</i>	<i>Notes</i>
University Graduation	1995	Sapienza Università di Roma	Evaluation: 110/110 cum laude
PhD	2000	Sapienza Università di Roma	

Part II – Academic Appointments

<i>Start</i>	<i>End</i>	<i>Institution</i>	<i>Position</i>
1/11/2000	–	Sapienza Università di Roma, Dipartimento di Matematica	Ricercatore Universitario, MAT/05 Ric. Confermato from Nov. 2003
1/03/2000	31/10/2000	Sapienza Università di Roma, Dipartimento di Matematica	Scientific Collaborator (Assegno di Ricerca)
1/11/1998	30/04/1999	Université de Tours, Laboratoire de Mathématiques et Physique Théorique	Research Fellowship of the TMR European Network "Viscosity Solutions and their Applications"
24/03/2001	24/06/2001	Institute of Pure and Applied Mathematics, UCLA	Research Fellowship as Core Participant of the Program "Geometrically Based Motions"

Part III – Periods of mandatory leave

<i>Start</i>	<i>End</i>	<i>Description</i>
21/10/2007	21/03/2008	Congedo per Maternità (L.1204/1971), provvedimento n.3913 del 13/11/2012
22/03/2008	20/04/2008	Congedo parentale (D.Lgs.26/03/2001,n.151 D.Lgs.119/2001), provvedimento n.3914 del 13/11/2012
19/05/2009	24/10/2009	Congedo per Maternità (L.1204/1971), provvedimento n.358 del 14/09/2009
25/10/2009	25/11/2009	Congedo parentale (D.Lgs.26/03/2001,n.151 D.Lgs.119/2001), provvedimento n.1614 del 23/05/2011

Part IV – Visiting periods at foreign institutions

<i>Start</i>	<i>End</i>	<i>Institution</i>	<i>Position</i>
03/09/2002	14/09/2002	University of Texas at Austin, Department of Mathematics	Visiting Researcher invited by Prof. P. Souganidis
19/07/2004	24/07/2004	University of Kobe School of Maritime Sciences	Visiting Researcher invited by Prof. K. Ishii
28/05/2007	02/06/2007	Fukuoka University Department of Mathematics	Visiting Researcher invited by Prof. N. Yamada
02/07/2007	07/07/2007	Université de Tours, Laboratoire de Mathématiques et Physique Théorique	Visiting Researcher invited by Prof. G. Barles and O. Ley
01/12/2014	05/12/2014	ETH Zurich, Department of Mathematics	Visiting Researcher invited by Prof. F. Da Lio
13/11/2017	25/11/2017	Université de Cergy–Pontoise, Département de Mathématiques	Visiting Researcher invited by Prof. F. Demengel
12/11/2018	16/11/2018	Université de Cergy–Pontoise, Département de Mathématiques	Visiting Researcher invited by Prof. F. Demengel

Part V – Teaching and Advising Activities

<i>Year</i>	<i>Institution</i>	<i>Lecture/Course</i>
2017/18	Sapienza Università di Roma	”Analisi Matematica I” Laurea Triennale in Matematica
2016/17	Sapienza Università di Roma	”Equazioni alle derivate parziali” Laurea Magistrale in Matematica
2015/16	Sapienza Università di Roma	”Equazioni alle derivate parziali” Laurea Magistrale in Matematica
2014/15	Sapienza Università di Roma	”Equazioni alle derivate parziali” Laurea Magistrale in Matematica
2013/14	Sapienza Università di Roma	”Calcolo I” Laurea Triennale in Matematica
2012/13	Sapienza Università di Roma	”Variabile Complessa” Laurea Triennale in Matematica
2011/12	Sapienza Università di Roma	”Analisi Matematica I” Laurea Triennale in Matematica
2010/11	Sapienza Università di Roma	Tutoring for ”Analisi Matematica I” Laurea Triennale in Matematica
2009/10	Sapienza Università di Roma	”Analisi Matematica I” Laurea Triennale in Matematica
2008/09	Sapienza Università di Roma	”Calcolo Differenziale” Laurea in Informatica e Tecnologie Informatiche
2008/09	Sapienza Università di Roma	”Calcolo Integrale” Laurea in Informatica e Tecnologie Informatiche
2006/07	Sapienza Università di Roma	”Analisi Matematica I”, Laurea in Matematica

<i>Year</i>	<i>Institution</i>	<i>Lecture/Course</i>
2005/06	Sapienza Università di Roma	"Derivate e Integrali" Laurea in Fisica
2004/05	Sapienza Università di Roma	"Derivate e Integrali" Laurea in Fisica
2003/04	Sapienza Università di Roma	"Funzioni di più variabili" Laurea in Fisica
2002/03	Sapienza Università di Roma	"Istituzioni di Matematiche" Laurea in Scienze Naturali
2001/02	Sapienza Università di Roma	"Calcolo Differenziale" Laurea in Informatica e Tecnologie Informatiche
2001/02	Sapienza Università di Roma	"Calcolo Integrale" Laurea in Informatica e Tecnologie Informatiche
2000/01	Sapienza Università di Roma	Tutoring for "Calcolo Differenziale" Laurea in Informatica e Tec. Inf.
1999/00	Università degli Studi "Roma Tre"	Tutoring for "Analisi II" Laurea in Matematica
1997/98	Università di Roma "Tor Vergata"	Tutoring for "Analisi I" Laurea in Ingegneria

From 2009 to 2018 advisor for

- **24** Theses of Laurea Triennale in Matematica
- **3** Theses of Laurea Magistrale in Matematica

Part VI – Participation in Funded Research Groups (as I-investigator or PI-principal investigator)

<i>Years</i>	<i>Title</i>	<i>Program</i>
1998-01	I	TMR Network "Viscosity Solutions and their Applications"
2000-02	I	Gruppo di Ricerca Nazionale "Analisi e controllo di equazioni di evoluzione deterministiche e stocastiche"
2002-04	I	PRIN 2002 "Metodi di viscosità , metrici e di teoria del controllo in equazioni alle derivate parziali non lineari"
2006-08	I	PRIN 2005 "Metodi di viscosità , metrici e di teoria del controllo in equazioni alle derivate parziali non lineari"
2008-10	I	PRIN 2007 "Metodi di viscosità , metrici e di controllo in equazioni alle derivate parziali non lineari"
2011-13	I	PRIN 2009 "Metodi di viscosità , geometrici e di controllo per modelli diffusivi non lineari"
2013-14	I	GNAMPA Project 2013 "Modelli di campo medio nelle dinamiche di popolazioni e giochi differenziali"
2014-15	I	GNAMPA Project 2014 "Equazioni differenziali completamente non lineari ellittiche degeneri: principio del massimo e applicazioni"
2015-16	I	GNAMPA Project 2015 "Soluzioni di viscosità di equazioni ellittiche degeneri derivanti da problemi geometrici"

<i>Years</i>	<i>Title</i>	<i>Program</i>
2016-17	PI	GNAMPA Project 2016 "Analysis and developments for fully nonlinear equations via the Maximum Principle"
2017-18	I	GNAMPA Project 2017 "Regularity of Viscosity Solutions of degenerate Nonlinear PDEs"
2018-19	PI	GNAMPA Project 2018 "Costanti critiche e problemi asintotici per equazioni completamente non lineari"

Part VII – Networking and Scientific Support Activities

- From 2001, Member of Indam National Research Group "GNAMPA", Section 1. *Differential Equations and Dynamical Systems*
- From 2014, co-organizer of the Seminar "P(n): Problemi differenziali non lineari", <http://www1.mat.uniroma1.it/ricerca/seminari/pdn/>, at Department of Mathematics, Sapienza Università di Roma
- Refereeing for the journals: *Asymptotic Analysis, Boundary Value Problems, Calculus of Variations and PDEs, Communications in PDEs, ESAIM: Control, Optimization and Calculus of Variations, Differential and Integral Equations, Indiana University Mathematical Journal, Journal de Mathématiques Pures et Appliquées, Journal of Differential Equations, Journal of Mathematical Analysis and Applications, NoDEA, Nonlinear Analysis TMA, Nonlinearity, Mathematische Annalen, Proceedings of AMS, Proceedings of Royal Society of Edinburgh, Revista Matemática Iberoamericana, SIAM Journal of Control and Optimization*
- Reviewer for BIRS (Banff International Research Station)
- Reviewer for "*Mathematical Reviews*"
- Member of the Committee for "Procedura di valutazione comparativa per la copertura di 1 posto di Ricercatore Universitario presso la Facoltà di Scienze MFN dell'Università di Sassari, Area 01, SSD Mat/05, IV Sessione 2004"
- Member of the Committee for "Procedura selettiva pubblica, per titoli e colloquio, nell'ambito dell'area scientifica "Matematica e sue applicazioni" per l'attribuzione di n. 2 assegni annuali per lo svolgimento di attività di ricerca presso il Dipartimento di Matematica, Sapienza Università di Roma", 2016
- Alternate Member of the PhD Dissertation Committee for M. A. Burgos Perez, Universidad de la Laguna, Tenerife, 2017
- Member of the Committee for "Procedura selettiva pubblica, per titoli e colloquio, nell'ambito dell'area scientifica "Matematica e sue applicazioni" per l'attribuzione di n. 1 assegno annuale per lo svolgimento di attività di ricerca presso il Dipartimento di Matematica, Sapienza Università di Roma", 2018

Part VIII – Research Activities

VIII.A – Brief Description

Qualitative properties (existence, uniqueness, comparison, regularity and symmetry results) for viscosity solutions of fully nonlinear elliptic equations. Extensions to degenerate elliptic cases.

Spectral properties for fully nonlinear operators.

Ergodic problem for singular or degenerate fully nonlinear operators and existence of solutions with infinite boundary conditions.

Emden–Fowler equations with power type or exponential type zero order terms.

Applications to geometric flows: level set approach, approximation by reaction-diffusion equations.

L^1 -theory for nonlinear operators in divergence form.

VIII.B – Complete List of Publications

Papers

1. I. Birindelli, F. Demengel, F. Leoni, Ergodic pairs for singular or degenerate fully nonlinear operators, *ESAIM Control Optim. Calc. Var.*, forthcoming article, <https://doi.org/10.1051/cocv/2018070>
2. I. Birindelli, G. Galise, F. Leoni, F. Pacella, Concentration and energy invariance for a class of fully nonlinear elliptic equations, *Calc. Var. Partial Differential Equations* 57 , no. 6, Art. 158, 22 pp. (2018)
3. I. Birindelli, G. Galise, F. Leoni, Liouville theorems for a family of very degenerate elliptic nonlinear operators, *Nonlinear Anal. TMA* 161, 198–211 (2017)
4. F. Leoni, Homogeneous solutions of extremal Pucci’s equations in planar cones, *J. Differential Equations* 263, no.2 , 863–879 (2017)
5. G. Galise, F. Leoni, F. Pacella, Existence results for fully nonlinear equations in radial domains, *Comm. Partial Differential Equations* 42, no.5 , 757–779 (2017)
6. I. Birindelli, F. Leoni, F. Pacella, Symmetry and spectral properties for viscosity solutions of fully nonlinear equations, *J. Math. Pures Appl.* (9) 107, no.4 , 409–428 (2017)
7. I. Capuzzo Dolcetta, F. Leoni, A. Vitolo, On the inequality $F(x, D^2u) \geq f(u) + g(u)|Du|^q$, *Math. Ann.* 365, no.1-2, 423–448 (2016)
8. I. Birindelli, F. Leoni, Symmetry minimizes the principal eigenvalue: An example for the Pucci’s sup operator, *Math. Res. Lett.* 21, no.5, 953–967 (2014)
9. I. Capuzzo Dolcetta, F. Leoni, A. Vitolo, Entire subsolutions of fully nonlinear degenerate elliptic equations, *Bull. Inst. Math. Acad. Sin. (N.S.), Special Issue for celebrating the seventieth birthday of Neil Trudinger* 9, no.2 , 147–161 (2014)
10. F. Leoni, Explicit subsolutions and a Liouville theorem for fully nonlinear uniformly elliptic inequalities in halfspaces, *J. Math. Pures Appl.* 98, n.5, 574–590 (2012)
11. I. Capuzzo Dolcetta, F. Leoni, A. Porretta, ”Hölder estimates for degenerate elliptic equations with coercive Hamiltonians”, *Transactions of the AMS* 362, 4511–4536 (2010)

12. D. Bartolucci, F. Leoni, L. Orsina, "Uniform estimates and blow-up analysis for the Emden exponential equation in any dimension" *Commun. Contemp. Math.* 9, no. 2, 163–182 (2007)
13. F. Leoni, B. Pellacci, "Local estimates and global existence for strongly nonlinear parabolic equations with locally integrable data", *J. Evol. Equ.* 6, no. 1, 113–144 (2006)
14. I. Capuzzo Dolcetta, F. Leoni, A. Vitolo, "The Alexandrov-Bakelman-Pucci weak maximum principle for fully nonlinear equations in unbounded domains", *Comm. Partial Differential Equations* 30, no. 10-12, 1863–1881 (2005)
15. D. Bartolucci, F. Leoni, L. Orsina, A. Ponce, "Semilinear equations with exponential nonlinearity and measure data", *Ann. Inst. H. Poincaré Anal. Non Linéaire* 22, no. 6, 799–815 (2005)
16. F. Leoni, "Convergence of an approximation scheme for curvature dependent motions of sets", *SIAM Journal on Numerical Analysis* 39, n.4, p.1115–1131 (2001)
17. I. Capuzzo Dolcetta, F. Leoni, "On the vanishing viscosity approximation of a time dependent Hamilton-Jacobi equation", *Progress in Nonlinear Differential Equations Appl.* 40, Birkhäuser, Basel, p. 59–75 (2000)
18. A. Cutrì, F. Leoni, "On the Liouville property for fully nonlinear elliptic equations", *Ann. Inst. H. Poincaré Anal. Non Linéaire* 17, no. 2, 219–245 (2000)
19. F. Leoni, "Nonlinear elliptic equations in \mathbb{R}^N with absorbing zero order terms", *Adv. Differential Equations* 5, no. 4-6, 681–722 (2000)

Proceedings

1. I. Capuzzo Dolcetta, F. Leoni, A. Vitolo, Generalized Keller–Osserman conditions for fully nonlinear degenerate elliptic equations (Russian), *Sovrem. Mat. Fundam. Napravl.* 64, no. 1, 74–85 (2018)
2. I. Capuzzo Dolcetta, F. Leoni, A. Vitolo, On some degenerate elliptic equations arising in geometric problems, *Sovrem. Mat. Fundam. Napravl.* 58, 96–110 (2015); translation in *J. Math. Sci. (N.Y.)* 233, no. 4, 446–461(2018)
3. I. Capuzzo Dolcetta, F. Leoni, A. Porretta, Local and global Hölder estimates for viscous Hamilton-Jacobi equations, In: Y. Giga, K. Ishii, S. Koike, T. Ozawa, N. Yamada, *International Conference for the 25th Anniversary of Viscosity Solutions* 30, 79–87, Tokyo: Gakkotosho Tokyo, Japan, ISBN: 9784762504396 (2008)
4. I. Capuzzo Dolcetta, F. Leoni, A. Porretta, Hölder estimates for viscous Hamilton-Jacobi equations, In: *Proceedings in Applied Mathematics and Mechanics. PAMM* 7 (2008)
5. I. Capuzzo Dolcetta, F. Leoni, A. Porretta, Viscous Hamilton-Jacobi equations, In: *Proceedings of the 6th International Congress on Industrial and Applied Mathematics*, Zurich, (2007)
6. F. Leoni, Local estimates and Maximum Principle for fully nonlinear equations in unbounded domains, In: *RIMS Kokyuroku* 1428, Kyoto University, Kyoto, Japan, 28–35, (2005).

Theses

1. "Some results on viscosity solutions and variational solutions of nonlinear elliptic PDEs", *PhD Thesis*, XI Ciclo, Sapienza Università di Roma, 2000
2. "Un problema di frontiera libera in elettrofotografia", *Graduation Thesis*, Sapienza Università di Roma, 1995

Preprints

1. I. Birindelli, F. Demengel, F. Leoni, $C^{1,\gamma}$ regularity for singular or degenerate fully nonlinear operators and applications, arXiv:1901.05400 [math.AP]
2. I. Birindelli, F. Demengel, F. Leoni, Dirichlet problems for fully nonlinear equations with "subquadratic" Hamiltonians, arXiv:1803.06270v1 [math.AP]

VIII.C – Communications at International Conferences and Workshops

1. Ile de Porquerolles (Francia), ERC ReaDi meeting "Nonlinear PDEs in Porquerolles", Communication "*Almost critical fully nonlinear elliptic equations in the ball*", 20-22/9/2018
2. Roma, 2nd Italian-Chilean Workshop in PDE, Communication "*Asymptotic analysis in the ball for almost critical fully nonlinear elliptic equations*", 15-19/1/2018
3. Rio de Janeiro, Special Session "Elliptic PDEs", 1st Joint Meeting Brazil-Italy in Mathematics, Communication "*Homogeneous solutions of fully nonlinear elliptic equations in planar cones and applications*", 29/8/2016-2/9/2016
4. Napoli, Workshop "Proprietà analitico geometriche di soluzioni di EDP", Communication "*Soluzioni simmetriche e proprietà spettrali per operatori completamente non lineari*", 25-27/01/2016
5. Punta Arenas (Cile), International Congress "Nonlinear elliptic pdes at the end of the world", Communication "*Local estimates for fully nonlinear elliptic differential inequalities and applications*", 2-6/3/2015
6. Mosca, 7th International Conference on Differential and Functional Differential Equations, Communication "*Fully nonlinear elliptic inequalities in unbounded domains*", 25-29/8/2014
7. Madrid, 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Special Session "Viscosity, Nonlinearity and Maximum Principle", Communication "*Fully nonlinear elliptic inequalities in unbounded domains*", 4-7/7/2014
8. Roma, Workshop "Mostly Maximum Principle", Communication "*Hadamard and Liouville theorems for fully nonlinear elliptic equations in half-spaces*", 12-14/9/2012
9. Serapo (Latina), GNAMPA School "Differential Equations and Dynamical Systems", Communication "*Liouville Theorems in halfspaces*" (short talk), 11-15/6/2012
10. Roma, Workshop "Viscosity, metric and control theoretic methods in nonlinear PDEs: analysis, approximations, applications", Communication "*Fully nonlinear inequalities: decay estimates and Liouville properties*" (short talk), 3-5/9/2008-
11. Tokyo, International Conference for the 25th Anniversary of Viscosity Solutions, Communication "*Local and global Hoelder estimates for viscous Hamilton-Jacobi equations*" (short talk), 4-6/6/2007

12. Lisbona, "New trends in viscosity solutions and nonlinear PDEs", a satellite conference to ICM 2006, Communication "*Concentration for Emden exponential equations in any dimension*" (short talk), 24–28/7/2006
13. Torino, Special Session "Qualitative methods for Hamilton-Jacobi equations and applications" at "Mathematics and its applications", a joint SIMAI-SMAI-SMF-UMI meeting, Communication "*Maximal solutions of viscous Hamilton-Jacobi equations with degeneracy*", 4/7/2006
14. Venezia, VII Congresso SIMAI, Minisymposium "Level-set methods, Hamilton-Jacobi equations and applications", Communication "*Diffusion generated approximation of mean curvature flow*", 23/9/2004
15. Kyoto, RIMS Workshop "Viscosity solutions theory in differential equations and its developments", Communication "*Local estimates and Maximum Principle for fully nonlinear equations in unbounded domains*", 12–14/7/2007
16. Torino, Workshop "Equazioni alle derivate parziali: comportamento asintotico, soluzioni stazionarie e regolarità", Communication "*Sommabilità esponenziale ottimale per soluzioni di equazioni ellittiche e applicazioni*", 23–24/10/2003
17. Milano, XVII Congresso dell'Unione Matematica Italiana, Sezione A3 "Calcolo delle Variazioni, Teoria del controllo e Ottimizzazione", Communication "*Sommabilità esponenziale ottimale per soluzioni di equazioni ellittiche e applicazioni*" (short talk), 8–13/9/2003
18. Lake Arrowhead (California, USA), Geometrically Based Motions 2002 Reunion Conference, Communication "*Approximation of geometric motions of sets having co-dimension greater than one*", 16–20/9/2002
19. PIMS, Vancouver, Workshop "Viscosity Methods in PDEs", Communication "*Diffusion generated motions in codimension ≥ 1* ", 3–10/7/2001
20. Lake Arrowhead (California, USA), culminating Workshop of the IPAM Program "Geometrically Based Motions", Communication "*Diffusion generated motions in codimension ≥ 1* ", 10–15/6/2001
21. Mallorca, Mid-term review of the TMR Network "Viscosity Solutions and Applications", Communication "*Convergence of an approximation scheme for curvature dependent motions of sets*" (short talk), 8–10/3/2001
22. Bressanone, Meeting of TMR Network "Viscosity Solutions and Applications", Communication "*Convergence of an approximation scheme for curvature dependent motions of sets*" (short communication), 3–5/7/2000
23. Santa Margherita Ligure, Workshop PhTIEE "Phase Transitions and Interface in Evolution Equations", Communication "*Convergence of an approximation scheme for curvature dependent motions of sets*" (short talk), 8–12/2/2000
24. Besancon, International Conference in memory of S.N. Kruzhkov "Nonlinear Partial Differential Equations", Communication "*On the Liouville property for fully nonlinear elliptic equations*" (short talk), 27/6/1999–2/7/1999
25. Roma, Workshop "Semilinear Elliptic Equations", Communication "*On the Liouville property for fully nonlinear elliptic equations*", 1/2/1999

VIII.D – Participation as invited speaker at cycles of Seminars

1. Seminario di Analisi Matematica Bruno Pini, Dipartimento di Matematica, Università di Bologna, December 2017
2. Roma, A.Ma.Ca., Incontro Interno Analisti Dipartimento di Matematica, Sapienza Università di Roma, May 2017
3. Seminario P(n): Problemi Differenziali Nonlineari, Dipartimento di Matematica, Sapienza Università di Roma, December 2015
4. Seminario di Analisi Matematica, Dipartimento di Matematica, Università di Napoli Federico II, November 2015
5. Seminario di Equazioni Differenziali, Dipartimento di Matematica, Università di Roma Tor Vergata, November 2015
6. Analysis Seminar, Department of Mathematics, ETH Zurich, December 2014
7. Seminario P(n): Problemi Differenziali Nonlineari, Dipartimento di Matematica, Sapienza Università di Roma, October 2014
8. Roma, A.Ma.Ca., Incontro Interno Analisti Dipartimento di Matematica Sapienza Università di Roma, January 2013
9. Seminario di Equazioni Differenziali, Dipartimento di Matematica, Università di Salerno, April 2013
10. Seminario P(n): Problemi Differenziali Nonlineari, Dipartimento di Matematica, Sapienza Università di Roma, February 2012
11. Roma, A.Ma.Ca., Incontro Interno Analisti Dipartimento di Matematica Sapienza Università di Roma, February 2011
12. Seminario di Equazioni Differenziali, Dipartimento di Matematica Pura e Applicata, Università di Padova, November 2008
13. Analysis Seminar, Department of Mathematics, Kyushu University of Fukuoka, Giugno 2007
14. Seminario Hamiltoniane, Metriche e Controllo, Dipartimento di Matematica, Sapienza Università di Roma, February 2007
15. Seminario di Equazioni Differenziali, Dipartimento di Matematica, Università di Roma Tor Vergata, March 2006
16. Roma, Incontro Interno Analisti Dipartimento di Matematica Sapienza Università di Roma, February 2006
17. Roma, Incontro Interno Analisti Dipartimento di Matematica Sapienza Università di Roma, January 2005
18. Analysis Seminar, Department of Mathematics, Kobe University, July 2004
19. Seminario di Equazioni Differenziali, Dipartimento di Matematica, Sapienza Università di Roma, May 2004

20. Analysis Seminar, Department of Mathematics, University of Texas at Austin, September 2002
21. Seminario di Equazioni Differenziali, Dipartimento di Matematica, Sapienza Università di Roma, November 2000
22. Analysis weekly seminar, Laboratoire de Mathématiques et Physique Théorique, Université de Tours, November 1998

VIII.E – Organization of International Workshops

1. Co-organizer (with I. Birindelli, A. Davini, G. Galise, A. Vitolo) of the Workshop "From Optimal Control to Maximum Principle", Agropoli (Sa), 12-14/9/2018
<http://www1.mat.uniroma1.it/people/birindelli/Agropoli2018/ConvegnoAgropoli.htm>
2. Co-organizer (with F. Ferrari) of the Workshop "Viscosity and variational solutions of nonlinear PDE's", Bologna, Dipartimento di Matematica, 27/3/2018
<https://events.unibo.it/viscosity-variational-solutions-nonlinear-pdes>
3. Co-organizer (with A. Vitolo) of the Minisymposium "Fully nonlinear elliptic equations and viscosity solutions", in International Conference on Elliptic and Parabolic Problems, Serapo, Gaeta, 22/5/2017 www.math.uzh.ch/index.php?konferenzdetails0&key1=490&L=1
4. Co-organizer (with B. Sirakov, A. Vitolo), of the Special Session "Elliptic PDEs", in 1st Joint Meeting Brazil-Italy in Mathematics, IMPA, Rio de Janeiro, 29/8/2016–2/9/2016 www.sbm.org.br/jointmeeting-italy/
5. Co-organizer (with I. Birindelli, I. Capuzzo Dolcetta, M. Transirico, A. Vitolo) of the International Workshop "Mostly Maximum Principle-Third Edition", Agropoli (Sa), 16–18/9/2015 www1.mat.uniroma1.it/ricerca/convegni/2015/agropoli2015/
6. Co-organizer (with I. Birindelli, I. Capuzzo Dolcetta, A. Vitolo) of the Special Session "Viscosity, Nonlinearity and Maximum Principle", in 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Instituto de Ciencias Matemáticas, UAM, Madrid, 4–11/7/2014
www.aims.org/aims-conference/conf-reg2014/abstracts/ss76_Abstract.pdf
7. Co-organizer (with I. Birindelli, I. Capuzzo Dolcetta, A. Vitolo) of the International Workshop "Mostly Maximum Principle - Second Edition", Sapienza Università di Roma, 12–14/9/2012 <http://www1.mat.uniroma1.it/ricerca/convegni/2012/roma2012/>
8. Co-organizer (with A. Cutri, P. Loreti, N. Tchou) of the International Conference "Nonlinear PDEs–dedicated to Italo Capuzzo Dolcetta", Sapienza Università di Roma, 1–2/9/2008 <http://www1.mat.uniroma1.it/ricerca/convegni/2008/NonLinearPDEs/>
9. Member of the Organizing Committee of the Workshop "Viscosity, metric and control theoretic methods in nonlinear PDEs", Serapo (Gaeta), 27/9/2004–1/10/2004
<http://www1.mat.uniroma1.it/ricerca/convegni/2004/serapo04/>

Part IX – Summary of Scientific Achievements

- **ASN** (Abilitazione Scientifica Nazionale) as **Professore di II Fascia, SC01/A3**, achieved on 28/11/2017 (Valid **from 28/11/2017 to 28/11/2023**)

<i>Index</i>	<i>Number</i>	<i>Data Base</i>	<i>Start</i>	<i>End</i>
Papers	17	Scopus	2000	2018
Papers	20	MathSciNet	2000	2018
Hirsch (H) index	8	Scopus	2000	2018
Hirsch (H) index	8	MathSciNet	2000	2018
Total Citations	198	Scopus	2000	2018
Total Citations	196	MathSciNet	2000	2018
Average Citations per Product	12	Scopus	2000	2018
Average Citations per Product	10	MathSciNet	2000	2018
Total Impact Factor	19.40	Scopus	2000	2018
Average Impact Factor	1.14	Scopus	2000	2018

Part X – Selected Publications

List of the publications selected for the evaluation. For each publication, author(s), title, reference data, journal IF and citations (on Scopus and/or MathSciNet) are indicated

1. I. Birindelli, F. Demengel, F. Leoni, Ergodic pairs for singular or degenerate fully nonlinear operators, *ESAIM Control Optim. Calc. Var.*, forthcoming article, <https://doi.org/10.1051/cocv/2018070>, 2017IF: 1.225, Citations: 0
2. I. Birindelli, G. Galise, F. Leoni, F. Pacella, Concentration and energy invariance for a class of fully nonlinear elliptic equations, *Calc. Var. Partial Differential Equations* 57 , no. 6, Art. 158, 22 pp. (2018), 2017IF: 1.738, Citations: 0
3. I. Birindelli, G. Galise, F. Leoni, Liouville theorems for a family of very degenerate elliptic nonlinear operators, *Nonlinear Anal. TMA* 161, 198–211 (2017), 2017IF: 1.291, Citations: 2 (Scopus), 1 (MathSciNet)
4. F. Leoni, Homogeneous solutions of extremal Pucci's equations in planar cones, *J. Differential Equations* 263, no.2 , 863–879 (2017) 2017IF: 1.782, Citations: 2 (Scopus), 1 (MathSciNet)
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