

Curriculum Vitae

Vincenzo Vespri CV

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1. PERSONAL DATA

Surname: Vespri

Name: Vincenzo Riccardo

Sex: Male

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Nationality: Italian

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2. CURRENT EMPLOYMENT

1997-present Full Professor in Mathematics at the University of Florence

3. EDUCATION AND PERSONAL TRAINING

a) Education (Note that the old system in Italy is different from the one in USA: the laurea is more or less equivalent to a Master. The Diploma is a further degree but not equivalent to a PhD. There was not to discuss a thesis.)

1982--1984 Graduated Student in Pisa (Scuola Normale Superiore)

1978--1982 Undergraduated Student in Pisa (University of Pisa and Scuola Normale Superiore)

1982 Laurea in Mathematics (110/110 with honour) (University of Pisa)

1985 Diploma in Mathematics (Scuola Normale Superiore)

b) Training

In 1982--1983 Trainee at Italsiel (ICT firm) studying Artificial Intelligence and mathematical models of Software lifespan

In 1982 Scholar at INdAM

4. SUMMARY OF APPOINTMENTS AND EMPLOYMENTS

a) Previous institutional employments

1994--1997 Full Professor in Mathematics at the University of L'Aquila

1988--1991 Associate Professor in Mathematics at the University of Pavia

1988--1991 Associate Professor in Mathematics at the University of Milan

1984--1988 Assistant Professor (Ricercatore Universitario) at the University of Tor Vergata (Rome)

b) Appointments: (long periods, paid with a grant by the host university)

Northwestern University (18 months),

University of New South Wales (3 months),

Australian National University (Canberra) (3 months),

Saint Petersburg's Academy of Science (1 month),

Marnee la Vallee University (1 month),

Rosario University (1 month),

Cuyo University (Mendoza) (1 month)

Escuela Politecnica Nacional (Quito) (2 months)

Coimbra University (1 month)

Ulm University (1 month),
Mittag Leffler Institut (Stockholm) (1 month)
Melbourne University (1 month)
UAM of Mexico City (1 month),
Haifa University – Technion (1 month),
Vanderbilt University (Nashville) (12 months)

c) Professional activity

- Associate with INFOTEL (firm ICT) for applications of the theory of Levy processes to simulate the performance of financial markets
 - Associate with FFMiravite INC. (financial consulting firm in the Philippines) for due diligence of a trading model
 - In a Technical Committee for a multigrid project made by ACEA (energy firm).
 - Associate with SvimService (ICT firm) for optimization of the reservation system in health system
 - Technical expert related to mortgages with constant rate and simple interested, studies commissioned by Giglio Law Office
 - Non Executive Director in REPX (Start up to be quoted in London)
 - Head mathematician for Swiss Ra (Lugano firm of technology)
 - Collaborator for BV-Tech concerning research projects
 - Three court appraisals for Italian Justice court
 - Consultant for Quantica (Venture Capital Company by CNR) for the assessment of an industrial initiative on the blogosphere
 - Consultant for Cosmo Service SrL (electric plants firm) for AI methods applied in the management of electric plants.
 - Team leader of "Unchained". A spin off that at the end was not established at University of Florence concerning the block-chain technology linked to BitCoins. In the Scientific Committee of Hesplora (Innovative Start Up) and Simas Lab (University of Salerno Laboratory) Referee in a literary contest for popularize Scientific literature. In the Scientific Committee of Caffè della Scienza di Livorno. I was the scientific board of AICA (Italian Association of Computer Science and Automatic Calculus). Member of "De Componendis Cyfris" (Italian association of cryptography)
- Coordinator of Circolo Toscana Lettera150.

d) Other activity:

In 1985-1986 military service as officer of Italian Navy: first in the intelligence service and after on the tallship "Amerigo Vespucci" as Mathematics teacher for the cadets

5. TEACHING

a) Institutional Activity:

From 1982 to 1984, volunteer Teaching assistant from 1982 to 1984 (Calculus 2 for Civil Engineering (2 times) university of Pisa)

For 1984 to 1988 Teaching Assistant (Calculus I for Physics (2 times) and Calculus 2 for Physics , Second University of Rome)

In 1986 Military Professor on Vespucci (Geometry and Calculus I) for the cadets

From 1988 to 1991 Associate Professor in Milan. Calculus I (3 times) and Calculus II (3 times) (About 120 hours each any class) for Computer Science students

From 1991 to 1994. Associate Professor in Pavia. Math Methods (Advanced Class (Master level)) for Electronic Engineering (3 times)

In 1994 two classes of Calculus at Northwestern University

From 1994 to 1998 L'Aquila, Calculus 1 (4 times), Calculus 2 (1 times) and Math Methods (Advanced Class (Master level)) for Electronic Engineering (3 times)

From 1997 till now in Florence: Advanced Analysis (for Mathematicians, Advanced Class, Master level) 2 times, Calculus 1 for Civil Engineering (3 times), Calculus 2 for Computer Science (20 times), Probability for Mathematicians, Stochastic Processes and Applications to Finance to Mathematician students (21 times, advanced class, Master level), Calculus I for Computer Science Students (2 times) , Financial Mathematics for Statistics (3 times, master level), Calculus 1 for Computer Science Engineering, Calculus 1 for Electronic engineering students (2 times)

b) PhD classes, advanced courses

1995 PhD class in SISSA (Trieste), PDE's (Partial Differential Equations)

1996 PhD class at University of Naples (PDE's)

2000 Advanced Class in Finance in Bari

2001- 2004 Master Classes in Bologna (3 times) Finance

2005 PhD class in Lecce, (PDE's)

2007 PhD class in Reggio Calabria and Messina (PDE's)

2009 Advanced classes in Luiss University (Rome) and in Pisa, Optimization, Applied Math

2006- 2017 Master classes in Milan (9 times) about Discrete Systems, Optimization and Applied Math

2017 Bari, PhD Class, INdAM , (PDE's)

2018 A class about Blockchain technology (Link University)

2020 Phd classes in Padua (about Campanato spaces). Participation to two masters of Unifi about the blockchain (Elda and Digital Transformation). Participation to a Master about Cybersecurity and Mathematics at University of Udine.

c) Other teaching

- Classes for retired people (paid by Florence city) for application of Mathematics to Economy and Finance (from 2008, 13 times)

-Lessons about Blockchain technology for Computer Sciences students (master level) AA 2018-2019.

d) Master and PhD Thesis

Advisor of 3 PhD Thesis (2 till to be completed) 2 in mathematics, 1 in Computer Science. Advisor of more than 100 Master/Bachelor Thesis. Some of them in collaboration with Banca Toscana, Infogroup, European Central Bank, Bertolotti, Aleph Diversified Acc , Periso (Ch), InvestBank, VarGroup, BitMiner, Banca del Fucino, Findomestic, Quid Informatica.

e) Outreach activity

2013 Applications of Mathematics in Finance at Liceo Scientifico Archimede. Acireale (Ct)

2016 Two seminars at the Caffè delle Scienze (Livorno). Seminar for high school students at the Catholic University of Brescia for the IT week about the applications of Bitcoin technology.

2017 Applications of Game Theory in Finance (Accademia Colombaria-Firenze), Perspectives of Mathematics in the 21st Century (Science Week, Cagliari). Two joint seminars with Fineco to present the possibilities offered in banking to graduates in Mathematics. Seminar for Engineering students of Salerno on Applied Mathematics for Engineering problems. Two seminars related to Green Economy / Green IT held one at the IED in Florence and the other one at the Commerce Chamber in Livorno.

2018 Laectio Magistralis on Blockchain Technology (Unilink-Rome), Sequence of Fibonacci and Finance (Accademia Colombaria, Florence). Participation in the Dante conference in Quito (Ecuador) on the Geometry of the Divine Comedy. Participation in the video on Baglioni about logarithms (<https://www.youtube.com/watch?v=bZhwk1JvPqc>)

2019 Three speeches at schools in the week of mathematics in Florence (on Mathematics and Game). An intervention in the conference the Medical Accident. Participation as a speaker in the "Open science and frontier research" event. Conference in Reggio Calabria about the geometry of the otherworldly worlds. Contribution to the online newspaper Nextquotidiano.

2020 A seminar at the Caffè delle Scienze (Livorno) about Dante and Mathematics.. Contribution to the online newspaper Today. A contribution "Come la pandemia cambierà il mondo" for Comen, Conferenza Mediterranea, Colloqui Interculturali Mediterranei 2020-2021.

2021 I organized a webinar about blockchain technology in Tuscany, involving several industries <https://www.babel.unifi.it/art-82-blockchain-toscana.html>
Video on youtube on Dante and mathematical infinity (https://youtu.be/j7c_rURiVDM). Seminar at Colombaria academy about the geometry of the otherworldly worlds.
https://www.youtube.com/watch?v=YhjH9ZGsVXU&t=5477s&ab_channel=AccademiaLaColombaria. Presentation of the book "Suggerimenti matematiche della Divina Commedia" di Trombetti e Zollo https://www.facebook.com/watch/live/?v=441428120400984&ref=watch_permalink.

Seminar about Dante and Galileo at Rome for the Conference “Dante e le discipline del quadrivio (<https://dantequadrivio.it/>) e about the numerology in Dante for the conference “700 anni dopo, la revisione del Processo a Dante”).

6. RESEARCH

a) Research interests

Author of about 130 scientific publications, concerning the existence and the regularity of solution to nonlinear equations arising from Mathematical Physics and the application of Functional Analysis to evolution equations. In the last years the research interests were directed also to Mathematical Models and to applications to Finance, Industrial Mathematics and Blockchains (Cryptography). In the last years I studied also the geometry structures used by Dante in Divine Comedy.

b) Indicators

Per Google Scholar I have 2564 citations, 25 as h number, for MathSciNet I have 1278 citations, 18 as h-number

c) Editor of special issues and volumes:

Co-editor of three special issues:

Guest Co-editor (with E. DiBenedetto, U. Gianazza, M. Safonov, J.M. Urbano) of a special issue of the journal “Boundary Value Problems” on "Harnack Estimates, Positivity and Local Behavior of Degenerate and Singular Parabolic Equations." (2007).

Co-Editor (with T. Coulhon, N.Trudinger) of a special issue of the journal “NonLinear Analysis” on “Qualitative and Quantitative Properties of Solutions to Parabolic Equations”, in Honour of Victor A. Galaktionov for his 60th Birthday, 131 (2016)

Co-Editor (with Daniele Andreucci, Ugo Gianazza, Dario Monticelli and Fabio Punzo) of the volume Harnack inequalities and nonlinear operators INdAM Conference to celebrate the 70th birthday of Emmanuele DiBenedetto Springer INDAM series. (2021).

d) List of Publications (A – article on international peer review international journal, B – book (or chapter of a book), I – introduction of a book, P – Proceeding, D divulgative essay)

131) Simone Ciani, Sunra Mosconi, Vincenzo Vespri, Intrinsic Harnack estimates for an anisotropic parabolic degenerate equation, submitted (A).

130) Giorgio Martalò, Cesidio Bianchi, Bruno Buonomo, Massimo Chiappini, Vincenzo Vespri: Optimal Control Strategies for Composting Processes in Biocells with L^1 and L^2 type Cost Objectives. Submitted (A)

129) Susanna Barsella, Vincenzo Vespri. Dante’s Cosmology in the Divine Comedy and the Geometry of Paradise. Italianistica, to appear (A)

128) Simona Fornaro, Eurica. Henriques, Vincenzo Vespri Stability to a class of doubly nonlinear very singular parabolic equations, Manuscripta Math., to appear (A)

127) Vincenzo Vespri, Matias Vestberg An Extensive Study of the Regularity of Solutions to Doubly Singular Parabolic Equations. Adv. Calc.Var.,in press (A)

- 126) Vincenzo Vespri. What I learnt from Emmanuele DiBenedetto, Harnack inequalities and nonlinear operators INdAM Conference to celebrate the 70th birthday of Emmanuele DiBenedetto Springer INDAM series. Andreucci, Gianazza, Monticelli, and Vespri Editors. 2021 pp. 1-27 (P)
- 125) Simone Ciani, Vincenzo Vespri, An Introduction to Barenblatt Solutions for Anisotropic p-Laplace Equations. Anomalies in partial differential equations Springer Indam Series 43. Cicognani, Del Santo, Parmeggiani and Reissig Editors 2021. 99-125 (A)
- 124) Simone Ciani, Vincenzo Vespri On Hoelder Continuity and Equivalent Formulation of Intrinsic Harnack Estimates for an Anisotropic Parabolic Degenerate Prototype Equation. Constructive Math Anal 1, (2021) 93-103 (A)
- 123) Vincenzo Vespri, Dante e la nascita della Probabilità, Bollettino della Lunigiana Dantesca, 170 (2021) 17-18. (D)
- 122) Simona Fornaro, Eurica. Henriques, Vincenzo Vespri, Regularity results for a class of doubly nonlinear very singular parabolic equations. NonLinear Anal, 205 (2021) 1-30. (A)
- 121) Vincenzo Vespri. Divagazioni sul II Canto del Paradiso. Dante rivista internazionale di studi su Dante Alighieri. 17 (2020) 133-146 (A)
- 120) Vincenzo Vespri. La Geometria dell'Inferno Dantesco. Entre epigonos y autoinspeccion. Actas del II Congreso Andino de Estudios sobre Dante Alighieri 22-24 de octubre de 2018. Patrizia di Patre Editor. Pontificia Universidad Católica del Ecuador Centro de Publicaciones (2020) 127-156. (P)
- 119) Simone Ciani, Vincenzo Vespri A new short proof of regularity for local weak solutions for a certain class of singular parabolic equations, Rend. Mat. Appl. (7) 41 (2020) 251-264 (A)
- 118) Clemente Biondi Santi, Vincenzo Vespri, Solving Criptographic Puzzles,;How to Mine? Blockchain, Law and Governence, Benedetta Cappiello and Gherardo Carullo, Editors, Springer (2020), 73-84 (P).
- 117) Naian Liao, Igor I. Skrypnik, Vincenzo Vespri , Local regularity for an anisotropic elliptic equation. Calc. Var. 59 (2020) 116 <https://doi.org/10.1007/s00526-020-01781-x>, 31 pages (A)
- 116) Vincenzo Vespri La Matematica di Dante. Vita e Pensiero (3) 2020, pag 113-121. (D)
- 115) Giorgio Martalò, Cesidio Bianchi , Bruno Buonomo , Massimo Chiappini and Vincenzo Vespri. A minimum time control problem for aerobic degradation processes in biocell composting plants. Optimal Control Applications and Methods. 41 (2020) 1251-1266 (A)
- 114) Giorgio Martalò , Cesidio Bianchi , Bruno Buonomo , Massimo Chiappini and Vincenzo Vespri, On the role of inhibition processes in modeling control strategies for composting plants, Current Trends in Dynamical Systems in Biology and Natural Sciences (Eds.: M. Aguiar et al.). SEMA SIMAI Springer Ser., 21, Springer, Cham, (2020) pp. 125-145 (P)
- 113) Giorgio Martalò, Cesidio Bianchi , Bruno Buonomo , Massimo Chiappini and Vincenzo Vespri, Mathematical modeling of oxygen control in biocell composting plants, Mathematics and Computers in Simulation, 117 (2020) 105-119 (A)
- 112) Simona Fornaro, Eurica. Henriques, Vincenzo Vespri. Harnack type inequalities for the parabolic logarithmic p-Laplacian equation. Le Matematiche, 75 (2020), 277-311 (A)

- 111) Alessio Bonadio, Francesco Chiti, Romano Fantacci e Vincenzo Vespri, An Integrated Framework for Blockchain inspired Fog Communications and Computing in Internet of Vehicles, *J. Amb. Intelligence Human. Computer.* 11 (2020) 755-762. (A)
- 110) PierDomenico Lamberti; Vincenzo Vespri, Remarks on Sobolev-Morrey-Campanato Spaces defined on $C^{\{0, \gamma\}}$ domains. *Eurasian Math. J.* 10 (2019), 47-62. (A)
- 109) Fatma Gamze Duzgun; Sunra Mosconi, Vincenzo Vespri, Anisotropic Sobolev Embeddings and the Speed of Propagation for Parabolic Equations, *J. Evol. Eqs.* 19 (2019) 845-882 (A)
- 108) Fatma Gamze Duzgun; Sunra Mosconi e Vincenzo Vespri (2019). Harnack and Pointwise estimates for degenerate or singular parabolic equations In: S. Dipierro. *Contemporary Research in Elliptic PDEs and Related Topics*, Berlin-New York: Springer -INdAM series (2019) 301-368 (B)
- 107) Vincenzo Vespri Un ricordo di Sergio Campanato. In: P. Cannarsa, G. Moscarillo e C.Sbordone. *Campanato. Opere Scelte*, Napoli: Liguori (2019) 31-34, (B)
- 106) Stella Piro Vernier, Francesco Ragnedda e Vincenzo Vespri, Hölder regularity for bounded solutions to a class of anisotropic operators, *Manuscripta Math.* 158 (2019) 421-439 (A)
- 105) Serena DiPierro, Enrico Valdinoci e Vincenzo Vespri, Decay estimates for evolutionary equations with fractional time-diffusion, J. Evolution Equations 19 (2019) 435-462 (A)**
- 104) Luca Bisconti, Paolo Maria Mariano and Vincenzo Vespri, Existence and Regularity for a Model of Viscous Oriented Fluid Accounting for Second-Neighbour Spin-to-Spin Interactions, *Journal of Mathematical Fluid Mechanics* 20 (2018) 655-682 (A)
- 103) Verena Boegelein, Francesco Ragnedda, Stella Piro Vernier, Vincenzo Vespri. Moser-Nash kernel estimates for degenerate parabolic equations. J. Functional Anal 272 (2017) 2956-2986 (A)**
- 102) Francesco Chiti,; Romano Fantacci; Fatma Gamze Duzgun ; Vincenzo Vespri, A Game Theory Inspired Channel Allocation Policy for Multi-Radio Pervasive Ad Hoc Communications. *Wireless Comm. Mobile Computing.* 16, (2016) 1826-1836. (A)
- 101) Roberto Gianni; Anatoli Tedeev; Vincenzo Vespri. Asymptotic expansion of solutions to the Cauchy problem for doubly degenerate parabolic equations with measurable coefficients. *NonLinear Anal.*, 138, (2016) 111-126 (A)
- 100)Giulio Ciraolo, Rolando Magnanini; Vincenzo Vincenzo; Hölder stability for Serrin's overdetermined problem. *Ann. Mat Pura Appl.* ,195 (2016) 1333-1345. (A)
- 99)Fatma Gamze Duzgun; Ugo Gianazza; Vincenzo Vespri ; 1- Dimensional Harnack estimates. *Discrete and Cont. Dynamical System. Series S.* 9, (2016) 675-685 (A)
- 98)Marco Vinicio Calahorrano Recalde and Vincenzo Vespri. Backward estimates for nonnegative solutions to a class of singular parabolic equations. *NonLinear Anal* 144, (2016) . 194-203 (A)
- 97)Thierry Coulhon, Neil Trudinger Neil; Vincenzo Vespri, Vincenzo (2016). Editorial. *NonLinear Anal.*, vol. 131, pp. 1-2 (I)
- 96)Fatma Gamze Duzgun, Simona Fornaro; Vincenzo Vespri (Interior Harnack Estimates: The State-of-the-Art for Quasilinear Singular Parabolic Equations. *Milan J. of Math* , vol. 83, (2015) 371-395 (A)

95) Anatoli. F. Tedeev, Vincenzo Vespri. Optimal Behavior of the Support of the Solutions to a Class of Degenerate Parabolic Systems. *Interface Free Bound.* 17 (2015) 143-156 (A)

94) Fornaro, Simona; Maria Sosio; Vespri, Vincenzo. Harnack type inequalities for some doubly nonlinear parabolic equations. *Discrete and Cont. Dynamical Systems. Series A.* 35, (2015) 5909-5926 (A)

93) András Telcs, Vincenzo Vespri. A Quantitative Lusin Theorem for Functions in BV. *Proceedings of a Cortona Conference.* Springer. INdAM series. Geometric Methods in PDE's, , New York, Berlin, Heidelberg: Springer (2015) 81- 87 (P)

92) Marco Vinicio Calahorrano Recalde and Vincenzo Vespri. Harnack estimates at large: sharp pointwise estimates for nonnegative solutions to a class of singular parabolic equations. *NonLinear Analysis.* 121, (2015) 153-163 (A)

91) Ahmad Z. Fino, Fatma Gamze Düzgün, Vincenzo Vespri; Conservation of the mass for solutions to a class of singular parabolic equations. *Kodai Math. J.*, Vol. 37 (2014), 519-531. (A)

90) András Telcs, Vincenzo Vespri (2014). Resolvent metric and the heat kernel estimate for random walks. *Stoc. Process and Appl.* Vol. 124, (2014) pp. 3965-3985 (A)

89) Fornaro, Simona; Maria Sosio; Vespri, Vincenzo; L^r_{loc} - L^∞_{loc} estimates and expansion of positivity for a class of doubly non linear singular parabolic equations. *Discrete and Cont. Dynamical Systems. Series S.* Vol 7 (2014) 737-760. (A)

88) Fatma Gamze Duzgun; Paolo Marcellini; Vespri Vincenzo; Space expansion for a solution of an anisotropic p-Laplacian equation by using a parabolic approach. *Rivista Matematica Univ. Parma* Vol 5 (2014) 93-111. (A)

87) Fatma Gamze Duzgun; Paolo Marcellini; Vespri Vincenzo; An alternative approach to the Hoelder continuity of solutions to some elliptic equations. *NonLinear Anal.* (2014) 133-141. (A)

86) Ragnedda, Francesco, Vernier-Piro Stella, Vespri Vincenzo; Pointwise estimates for the fundamental solutions of a class of singular parabolic problems. *Journal d'Analyse Mathematique* 121 (2013) 235-253. (A)

85) Fornaro, Simona; Maria Sosio; Vespri, Vincenzo; Energy Estimates and Integral Harnack inequality for some doubly nonlinear singular parabolic equations. *Contemporary Mathematics* Vol 594 (2013) 179-199. (A)

84) Fornaro, Simona; Vespri, Vincenzo; Harnack estimates for non-negative weak solutions of a class of singular parabolic equations. *Manuscripta Math.* (2012) 85-103. (A)

83) Henriques, Eurica ; Vespri, Vincenzo; On the double degenerate equation $\operatorname{div} a(x,t,u,\nabla u) = b(x,t,u,\nabla u)$. *Nonlinear Analysis Series A: Theory*, Vol. 75, (2012) 2304-2325. (A)

82) DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Harnack's inequality for degenerate and singular parabolic equations. *Springer Monographs in Mathematics.* Springer 2011 (B)

81) Ragnedda, Francesco, Vernier-Piro Stella, Vespri Vincenzo; The asymptotic profile of solutions of a class of singular parabolic equations. *Progress in Nonlinear Diff.Equs. and Their Appl.* , vol 60, (2011) 577-589 2011 (P)

80) DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; A new approach to the expansion of positivity set of non-negative solutions to certain singular parabolic equations. *Proc. Amer. Math. Soc.* , 138 (2010), pp 3521-3529. (A)

79)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Continuity of the saturation in the flow of two immiscible fluids in a porous medium, *Indiana Univ. Math. J.* 59 (2010), 2029-2064. (A)

78)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Liouville-type theorems for certain degenerate and singular parabolic equations. *Comptes Rendus Math.*, 348 (2010), 873877. (A)

77)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Forward, Backward and Elliptic Harnack Inequalities for Non-Negative Solutions to Certain Singular Parabolic Partial Differential Equations. *Annali Scuola Norm. Sup Pisa*, 11 (2010), 385-422. (A)

76)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Harnack type estimates and Hölder continuity for non-negative solutions to certain subcritically singular parabolic partial differential equations. *Manuscripta Math.*, 131 (2010), 231-245. (A)

75)Ragnedda, Francesco, Vernier-Piro Stella, Vespri Vincenzo; Large time behaviour of solutions to a class of non-autonomous, degenerate parabolic equations. *Math. Annalen* 348 (2010) 779-795. (A)

74)Santambrogio, Filippo; Vespri Vincenzo; Continuity in two dimensions for a very degenerate elliptic equation. *NonLinear Anal.* 73 (2010) 3832-3841. (A)

73)Gianazza, Ugo; Surnachev, Mikhail; Vespri, Vincenzo; On a new proof of Hölder continuity of solutions of p-Laplace type parabolic equations. *Adv. Calc. Var* 3 (2010), 263-278. (A)

72) DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Alternative forms of the Harnack inequality for non-negative solutions to certain degenerate and singular parabolic equations. *Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei Supplemento*, 20 (2009), 323-331. (A)

71)Ragnedda, Francesco, Vernier-Piro Stella, Vespri Vincenzo; Asymptotic time behaviour for non-autonomous degenerate parabolic equations with forcing terms. *NonLinear Anal.* 71 (2009) 2316-2321. (A)

70)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Sub-Potential Lower Bounds for Non-negative local solutions to certain quasi linear degenerate parabolic equations *Duke Math. J.* 143 (2008) 1-15. (A)

69)Fornaro, Simona; Paronetto, Fabio; Vespri, Vincenzo; Disuguaglianze di Harnack per equazioni paraboliche. *Lecce. Università del Salento*, 1-56, 2008. (B)

68)Giuli, Massimiliano; Vespri, Vincenzo; Speculative dynamics and feedback trading. A nonlinear model. In: *Fourth JSIAM-SIMAI Seminar on Industrial and Applied Mathematics*, 28, 43-51, 2008. (P)

67) Giuli, Massimiliano, Gozzi, Fausto; Monte, Roberto; Vespri, Vincenzo; Generation of analytic semigroups and domain characterization for degenerate elliptic operators with unbounded coefficients arising in financial mathematics. II. Functional analysis and evolution equations, 315330, Birkhäuser, Basel, 2008. (P)

66)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Harnack estimates for quasi linear degenerate parabolic differential equations *Acta Math* 200 (2008), no. 2, 181-209. (A)

65)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Intrinsic Harnack estimates estimates for quasi linear singular parabolic differential equations *Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei* (9) *Mat. Appl.* 18 (2007) no.4, 359-364. (A)

64)DiBenedetto, Emmanuele; Gianazza, Ugo; Safonov, Mikhail; Urbano, José Miguel; Vespri, Vincenzo; Harnack's estimates: positivity and local behavior of degenerate and singular parabolic equations. Bound. Value Probl. (2007), Art. ID 42548, (I)

63) Colombo, Fabrizio; Guidetti, Davide; Vespri, Vincenzo; Some global in time results for integrodifferential parabolic inverse problems. Differential equations: inverse and direct problems, 35--58, Lect. Notes Pure Appl. Math., 251, Chapman & Hall/CRC, Boca Raton, FL, 2006. (A)

62)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Local clustering of the non-zero set of functions in $W^{1,1}(E)$. Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. 17 (2006), no. 3, 223--225. (A)

61)DiBenedetto, Emmanuele; Gianazza, Ugo; Vespri, Vincenzo; Intrinsic Harnack estimates for nonnegative local solutions of degenerate parabolic equations. Electron. Res. Announc. Amer. Math. Soc. 12 (2006), 95--99 (electronic). (A)

60)Gianazza, Ugo; Vespri, Vincenzo; Parabolic De Giorgi classes of order p and the Harnack inequality. Calc. Var. Partial Differential Equations 26 (2006), no. 3, 379--399. (A)

59)Gianazza, Ugo; Vespri, Vincenzo; A Harnack inequality for a degenerate parabolic equation. J. Evol. Equ. 6 (2006), no. 2, 247--267. (A)

58)Colombo, Fabrizio; Guidetti, Davide; Vespri, Vincenzo; A global in time result for an integrodifferential parabolic inverse problem in the space of bounded functions. Dissipative phase transitions, 65--86, Ser. Adv. Math. Appl. Sci., 71, World Sci. Publ., Hackensack, NJ, 2006. (P)

57)Gianazza, Ugo; Vespri, Vincenzo; A Harnack inequality for solutions of doubly nonlinear parabolic equations. J. Appl. Funct. Anal. 1 (2006), no. 3, 271--284. (A)

56)Chiti, Francesco; Fantacci, Romano; Baffoni, Fabrizio; Vespri, Vincenzo; Admission control algorithms based on self-similar traffic modeling for IP networks. Applied and industrial mathematics in Italy, 225--236, Ser. Adv. Math. Appl. Sci., 69, World Sci. Publ., Hackensack, NJ, 2005. (P)

55)Colombo, Fabrizio; Guidetti, Davide; Vespri, Vincenzo; Identification of two memory kernels and the time dependence of the heat source for a parabolic conserved phase-field model. Math. Methods Appl. Sci. 28 (2005), no. 17, 2085--2115. (A)

54)Metafune, Giorgio; Pallara, Diego; Vespri, Vincenzo; L^p -estimates for a class of elliptic operators with unbounded coefficients in \mathbb{R}^N . Houston J. Math. 31 (2005), no. 2, 605-620 (electronic) (A)

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1) Cannarsa, Piermarco; Vespri, Vincenzo; Existence and uniqueness of solutions to a class of stochastic partial differential equations. Stochastic Anal. Appl. 3 (1985), no. 3, 315-339 (A)

e) Leader of scientific projects (with a corresponding grant)

Leader for an exchange project Italy-Germany (project Vigoni - CRUI), (Conference of Rectors of Italian Universities)

Leader of a project Italy-Morocco (CNR) (National Research Council)

Leader of a project between Italy and Russia (MFA) (Ministry of Foreign Affairs)

Leader of a project Italy-USA (MFA)

Leader of a project Italy-Hungary (MFA)

Leader of a project between the University of Florence and University of Cuyo Mendoza (Argentina) (Unifi)

Leader of a project between the University of Florence and Escuela Politecnica Nacional di Quito (Ecuador) (Unifi)

Local leader of a CNR strategic project on applications of Mathematics in Engineering

National Leader of a CNR strategic project titled "Mathematical modeling of economic phenomena"

Responsible for three Research Projects GNAMPA (National Group for Mathematical Analysis, the Probability and their Applications)

Project Manager of a Government Research Project (Research Programs of Relevant National Interest) 2002 coordinated by Italo Capuzzo Dolcetta "Methods for Viscosity, metric, and control theory in nonlinear partial differential equations"

Leader of a laboratory CUDA Computing for the Department of Mathematics (University of Florence). Joint laboratory with the Department of Mathematics of Unisa (University of Salerno) and funded by contributions given by CFR (Savings Bank of Florence)

National leader of S.I. E. S. (Strategic Initiatives for the Environment and Security) a project concerning applications of Math to Environment and security (joint project INdAM – INGV) , budget of 1.3 Million Euro

In charge of local funds for rewarding project (UniFi)

In the board of Lettera150. Organisation of professors for improving the society where we live.

Co-leader of the industrial order “Studio di nuove applicazioni pratiche di algoritmi di Machine Learning (ML) a problemi di manutenzione predittiva (PDM) nell'ambito del Progetto H2020 Madein4 (Polito) 50.000 Euro about.

Leader for the Erasmus link between the Universities of Florence and : Marnee-la Vallee (Fr) Tuebingen (D) Ulm (D) Budapest (Hu) Malta (M) Constance (Ro)

f) Editorial board

I was in the Editorial Board of Financial Mathematics and Applications, J. Math. Anal., Math. Problems in Engineering, Symmetry and NonLinear Analysis. Editor in chief for Open Mathematics Journal

g) Referee for international journals

I was referee for more than 50 scientific journals

h) Partecipation to Conference

Plenary speaker in more than one hundred international conferences in Italy and abroad

i) Organization of International Conferences

INDAM workshop in Cortona (Evolution Equations and Applications), co-organizers Howison and Lanconelli

INDAM workshop in Cortona (Harnack Inequalities and Positivity), co-organizers Gianazza and Urbano

INDAM workshop in Cortona (Harnack's inequality and nonlinear operators)

HCPFIN99 - Ischia (application of Parallel Calculus to Finance)

I Euro-Maghreb Conference - L'Aquila, (cooperation exchanges between Maghreb and Italy in collaboration with CRUI (<http://www.crui.it/>) and Italian Foreign Office)

Functional Analysis and Finance – Diamante

Saet -Ischia, (Application of Functional analysis to Finance)

SIMAI - Taormina, (Application of Functional analysis to Finance)

SIMAI - Chia (Application of Functional analysis to Multimedial Network Traffic)

SIMAI - Venezia (Application of Functional analysis to Multimedial Network Traffic) SIMAI - Scicli (Application of Functional analysis to Finance)

Enumath 2001 -Ischia (Application of Informatics and Numerical Analysis to Finance)

AIRO 2002 (L'Aquila) - (Application of Functional analysis to Multimedial Network Traffic)

I and II meeting Argentina and Italy (Firenze and Buenos Aires- in collaboration with the Italian Foreign Office)

Meeting about Finance Mathematics - Politecnico di Milan (coorganizer Barucci)

XXV International Seminar on Stability Problems for Stochastic Models, Maiori (coorganizer D'Apice)

Beppo Levi meeting - Rome (to commemorate the exile of Beppo Levi from Italy due to the racial laws)

2009 Intensive period (two months) Pavia and Politecnico Milan. (Coorganizers Gianazza and Salsa)

NonLinear Evolution Equations - Mondello (PA) (coorganizers Bonanno, Ciruolo, Di Fazio and Grillo)

First meeting from the Apennines to the Andes at Cuyo University (Mendoza- Argentina)

Padua2014 Workshop on Calculus of Variations and Partial Differential Equations (coorganizers Cupini, Eleuteri, Marcellini, Mariconda, Mascolo and Treu)

Workshop: "Dynamical Systems, Calculus of Variations and Control" Firenze 2018 (Organizers Bisconti, Fabbri, Focardi, Poggiolini)

Cifrischain (Rome 2018, about Blockchains) (Co-organizers Pedicini, Schmid, D.Venturi, I. Venturi)

Cime Conference Applied Math Problems in GeoPhysics (Co-organizers H. Ammari, M. Chiappini) 2019.

UMI MathCifris Conference 2021 (co-organizers Gavioli)

7. SERVICES

a) Institutional activity

1999-2001. I was scientific secretary and treasurer of the Foundation CIME (International Mathematical Summer Center)

Since 2005 is in the list of national experts by MIUR (Ministry of Education, University and Research) and MISE (Ministry of Economic Development)

2011-2015. Member of the Board of Directors INdAM (appointed by the Minister)

2018- 2019 Member of a working group at MIUR under the Head-Department G. Valditara

2019 I was appointed as Sherpa for Science and Carnegie Group. I was in Paris for G7- Science 2019.

Then I had the further following appointments. I was:

Member of the Interministerial Commission (as an expert of the MEF (Ministry of Economy and Finance)) on the Project FISR (Integrated Special Research Fund) "Sustainable development and climate change."

Panel Member of the Turin Wi-Fi (appointed by MIUR)

Member of the Working Group on ICT-FAR (Industrial Research Facilities Fund) (ICT is Information and Communication Technology) (appointed by MIUR)

Member of ICT projects (appointed by MISE)

Board Member of Strategic Projects (appointed by MIUR)

Member of the Commission MISE - spin-off (appointed by MISE)

Deputy Coordinator Panel ICT PON (National Operational Programme)-competitiveness (appointed by MIUR)

Member of the Working Group of the Call Start-Up BigData (Appointed by MIUR)

Member of the Commission for the search of partners for the "Creation of Centres of Excellence for programs with significant technical content of Research and Innovation" in the Province of Salerno (appointed by Province of Salerno)

1994-1997 Faculty Secretary for the Engineering Faculty, L'Aquila.

2009- 2011 Member of the Committee of the University Italo-German for joint evaluation of projects

Expert of APRE (Agency for the Promotion of European Research) (ICT area)

I was invited at Davos Meeting Forum 2020.

For the Science Faculty of University of Florence I was responsible of the invitation of eminent scientists (among them I invited Michael Levitt, who won the Nobel Prize in Chemistry in 2013)

For the Math Department, I was responsible of Copernicus, scientific exchange with Kazakhstan and of liquid Hydrogen projects. I was I also in charge for relations with external bodies

Chairman of a commission for school managers (National Competition)

b) In committee for university positions and fellowship:

In the committee for CNR fellowship

In the committee for Research Grants and Post Doc positions

In the committee for PhD final exam (11 times in total , 4 times abroad, in France (2 times), Finland and Morocco)

In the committee for Teaching Assistant positions (12 times)

In the committee for Associate Professor positions (13 times)

In the committee for Full Professor positions (6 times)

c) Evaluator of European Research Projects

Evaluator for the European Commission Marie Curie Action Program "Initial Training Network" in 2007, 2008, 2011, 2012, 2013, 2014, 2016 (Vice Chair), 2017 and 2018.

Evaluator for the European Commission Marie Curie Action Programme - "International Fellowships" 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 (Vice Chair), 2018 (Vice Chair), 2019 (Vice Chair) and 2020 (Vice Chair)

Evaluator for the European Commission Marie Curie Action Programme - H2020-WIDESPREAD 2018-TWINNINGS (Vice Chair) - H2020-WIDESPREAD ERA CHAIR 2019 (Rapporteur)

Evaluator for EuroTechPostdoc2 programme.

Evaluator for the European Commission Marie Curie Action Programme - "Industry-Academia Partnership and Pathways" 2013

Evaluator for the European Commission Marie Curie Action Programme - "Research and Innovation Staff Exchange" 2014, 2015 and 2016

Technical Officer for the European Commission Marie Curie Action Programme for 8 Midterm Evaluations and 6 final evaluations

Evaluator for a redress of a project

Project Evaluator for the Italo-German University

Project Evaluator for SoProMo (2 times) and BRNO Talents (2 times) (research project for South Moravia Region)

Project Evaluator for the Italo-French University (Vinci Project)

Evaluator for grants of the Finnish Academy (2 times)

Evaluator of ERC projects for the Polish Academy

Evaluator for a project for Cyprus Research Promotion Foundation

d) Evaluator of Research Projects (at national level)

Evaluator of PRIN Projects.

Evaluator of SIR projects

Product evaluators for CIVR (Committee for the Evaluation of Research)

Product evaluators for ANVUR (National Agency for the valuation of University and Research) for VQR.

Evaluator of Indam-Cofund projects.

Evaluator of a Firb Future project.

Referee of proposals for the project "Return of the Brains"

e) Evaluator of Research Industrial Projects (at national level)

Evaluator of a project of the Technology Park of Elba Island

Evaluator of 11 FAR Projects

Evaluator of a 488 Laws Project

Evaluator of 8 PON Projects (2000-2007)

Evaluator of 8 PON Projects (2008-2013)

Evaluator of a PON4- Smart Cities project

Evaluator of 1 FISR Project

Evaluator of a Great Strategic Project

Evaluator of a project "Research Laboratories of Public and Private"

Evaluator of 2 Spin-Off projects

Evaluator of 2 projects art. 13

Final evaluator of 2 Far projects

Evaluator of 2 Artemis-Ju Projects

Evaluator for Cluster Technologies for Smart Communities

Evaluator of 7 Start Up projects

Evaluator of 4 PIA Innovation Projects (Integrated Project Area)

Evaluator of project Pia Networking

Evaluator of a project ICT-MAP

Evaluator of 2 projects FIT-PON (Technological Innovation Fund)

Evaluator of 2 FIT Projects

Evaluator of a FGV project

Evaluation of a project carried out by the firm under the contract UNICOM program of 21 / 4 / 1999

Evaluator of a project MISE Start Up

Evaluator of Fondo per la Crescita Sostenibile – Bando GP PON 2014-2020 – Digital. Mise

Evaluator of Technical Officer of 3 Industry Projects 2015 (Invitalia)

Evaluator of a PRISS Project (Invitalia-Mise)

Evaluator of a Eurostar Project

Evaluator of a project on computerization of MIPAF (Ministry of Agriculture and Forestry) and of a project about the sequencing of the genoma.

f) Evaluator of Research Industrial Projects (at regional level)

Evaluator of 70 Projects for Lazio Innova an agency of the Technology District of the Lazio Region

Evaluator of 6 Projects funded by 598 law for the regions of Lazio, Marche, Puglia and Umbria

Evaluator of 12 PIA Industry Projects for the region of Sardinia. Evaluator of 2 projects of Sardinia Researches, final evaluator of 9 PIA Industry Projects for the region of Sardinia. Evaluator of 6 PIA-PON projects, 5 TopDown Projects

Evaluator of 7 Project of Puglia region.

Evaluator of 3 Projects for Veneto Innovation , the Veneto Region Agency

Evaluator of local research projects for University of Catania, University of Padua (CaRiPaRo) (4 times) and University of Modena and Reggio Emilia (2 times)