

CURRICULUM VITAE
Franco Flandoli

GENERAL DATA (education, academic and organizing positions, visiting positions, awards)

Birthdate: August 18th, 1959

Present position: *Full Professor in Probability and Statistics, Scuola Normale Superiore of Pisa, since 1/11/2017*

Previous positions:

Researcher, University of Torino (1983-1988)

Associate Professor, University of Torino (88-91)

Scuola Normale Superiore di Pisa (91-95)

University of Pisa (95-99)

Full Professor, University of Pisa, 1/1/2000 – 31/10/2017.

Studies: Degree in Mathematics, University of Pisa, 1981,

Degree in Mathematics of the Scuola Normale Superiore of Pisa, 1981

PhD program at the Scuola Normale Superiore of Pisa, 1981-83

Periods of post doc education and research at Universität Bremen

Director of “Dipartimento di Matematica Applicata” from 1/11/2000 to 31/1/2003.

Member of the Scientific Council of the Mathematical ResearchCenter “E. De Giorgi” (Pisa) 2003-2011.

Member of the Scientific Council of GNAMPA (“Gruppo Nazionale per l'Analisi Matematica, la Probabilità e le loro Applicazioni”) 2004-2012.

Member of the Scientific Council of CIME since 2014.

Associate editor of:

Nonlinear Differential Equations and Applications (Managing Editor 2014-16)

Annales del'Institut Henri Poincaré, Probabilités et Statistiques

Stochastic Partial Differential Equations

Journal of Dynamics and Differential Equations

Mathematical Models and Methods in Applied Sciences

(past: Electronic Journal and Communications in Probability)

Coordinator of a local research units of national projects PRIN of the Italian Ministry of Research, from 1999 to 2006 and from 2008 to 2017.

Member of committee of intensive research periods:

“Interacting Particles and Computational Biology”, January 12–March 12, 2003,

“Probability and Statistical Mechanics in Information Theory”, May 20 – July 20,

2003, “Stochastic Analysis, Stochastic Partial Differential Equations and

Applications to Fluid Dynamics and Particle Systems”, March 01–July 31, 2006, at “E. De Giorgi” Mathematical Research Center, Pisa; and “Stochastic Analysis and Applications” in Lausanne, Bernoulli Center, 2012.

Member of committee of recent workshops and schools:

Workshop su "Probability and PDEs", Centro E. De Giorgi, Pisa, May 2013

Workshop "SPDEs and Applications", Levico, January 2014

School on "Singular SPDEs", Centro E. De Giorgi, Pisa, September 2014

Equadiff 2015, Lyon, session organizer

Workshop "SPDEs and Applications", Levico, June 2016

CIME Summer school on Singular Random Dynamics, Cetraro 2016.

School on “Mathematical Modelling in Life Sciences”, Centro E. De Giorgi, Pisa, September 2017.

Member of the committee of evaluation of the Department of Mathematics at Erlangen University.

Member of the committee of competitions for researchers and professors in Probability.

IN EVIDENCE (Awards, special events):

Lecturer at summer school CIME 2007.

Lecturer at Saint Flour summer school 2010.

Medallion Lecture at 8th World Congress of Probability and Statistics, Istanbul 2012.

Author of 149 publications, with 2502 citations from 918 authors, h-index = 21 (source Mathscinet).

Papers on *Inventiones Mathematicae* (2010) and *Commun. Pure Appl. Math.* (2014).

Visiting professor in Paris XIII (1999), Cambridge (2010), Nice (2011), Lausanne (2012), Paris Dauphine (2013), Bielefeld (2014), Nice (2017).

Winner of competition for full professor, Scuola Normale Superiore, 2017.

COURSES AT INTERNATIONAL SCHOOLS OR RESEARCH PERIODS

- University of Barcelona, Summer School 2000, lectures on Stochastic models in fluid dynamics.

- University of Warwick, research semester on SPDEs 2001, lecture course on Stochastic models in fluid dynamics.

- Technische Universität Berlin, Winter School 2002, lectures on stochastic models in fluid dynamics.

- University of Turin, School “Does noise simplify or complicate the dynamics of nonlinear systems?”, 2004, lectures on Random dynamical systems.

- University of Florence, International School on “Probabilistic models in the continuum”, 2004, lectures on Stochastic models in fluid dynamics.

- University of Laramie (WY), IMA Summer School 2005 on Geophysical flows, lectures on 3D stochastic fluid dynamics.

- Cetraro (Italy), CIME Summer School 2005, lectures on An introduction to 3D stochastic fluid dynamics.
- University of Warwick, School on Scaling limits 2008, lectures on stochastic fluid dynamics.
- *Saint Flour (France) 40° Summer School 2010, lectures on Random perturbations of PDEs and fluid dynamic models.*
- Humbolt University, Berlin 2013, course on Regularization by Noise and zero noise limit.
- Bernoulli Center, Lausanne, 2012, course on Stochastic transport equations.
- University of Padova, 2015, course on stochastic models in oncology.
- University of Marseille, 2015, course on Regularization by Noise.
- University of Toulouse, 2016, course on Stochastic regularization.
- Waseda University, Tokyo, 2016: course on Stochastic Fluid Dynamics.-
- HUST, Wuhan (Cina), 2017, course on 2D Euler equations with random initial conditions.

ADVISOR OR RESEARCH THESIS

- 1994: T. Vargiolu, Scuola Normale Superiore di Pisa, Stochastic differential equations in finance
- 1996: A. Cogliati, Scuola Normale Superiore, Simulated annealing
- 1997: B. Ferrario, PhD Scuola Normale Superiore, Stochastic Navier-Stokes equations
- 1997: F. Morandin, Scuola Normale Superiore, Branching processes and differential equations
- 1999: H. Bessaih, PhD Scuola Normale Superiore, Stochastic Euler equations
- 2000: B. Busnello, PhD in Mathematics, Pisa, Probabilistic representations formulae in fluid dynamics
- 1999: D. Barbato, University of Pisa, Percolation and Wulff problem
- 1999: I. Minelli, University of Pisa, Generalized stochastic integration and vortex filaments (De Finetti Prize 2002)
- 2001: M. Romito, PhD University of Pisa, Stochastic Navier-Stokes equations
- 2001: G. Guidi, Scuola Normale Superiore, Probabilistic methods in image segmentation (De Finetti Prize 2004)
- 2004: M. Fedrigo, PhD Scuola Normale Superiore, Probability and statistical mechanics in Information Sciences.
- 2005: E. Tonello, Scuola Normale Superiore, Physical measures in random dynamical systems.
- 2008: E. Fedrizzi, Scuola Normale Superiore, Stochastic differential equations with non regular coefficients (De Finetti Prize 2011)
- 2008: L. A. Bianchi, University of Pisa, Dirichlet processes and applications.
- 2009: S. Attanasio, Scuola Normale Superiore, Stochastic differential equations and transport equations.
- 2010: M. Aurelli, Scuola Normale Superiore, Generalized stochastic flows.
- 2010: A. Bevilacqua, University of Pisa, Occupation measure of Brownian motion.
- 2011/2012: M. Coghi, University of Pisa, Hydrodynamic limits of stochastic particle systems
- 2011: M. Cappelletti, University of Pisa, Hausdorff dimension of Brownian motion.
- 2013: L. A. Bianchi, PhD Scuola Normale Superiore, Dyadic models of turbulence on trees.

2015: A. Bevilacqua, PhD Scuola Normale Superiore, Doubly stochastic models of volcanic activity at Campi Flegrei.
2015: G. Zanco, PhD University of Pisa, Path dependent calculus and PDEs.
2015: A. Caraceni, PhD Scuola Normale Superiore, The geometry of large outerplanar and half-planar maps.
2016: M. Maurelli, PhD Scuola Normale Superiore, Regularization by Noise.
2016: M. Coghi, PhD Scuola Normale Superiore, Stochastic Particle systems.
2017: Valeria De Mattei, PhD University of Pisa.

Expected:

2018: Marta Leocata, PhD University of Pisa
2019: Cristiano Ricci, PhD University of Florence
2020: Francesco Grotto, PhD Scuola Normale Superiore.

SCIENTIFIC ACTIVITY

Main research fields:

Stochastic ordinary and partial differential equations
Stochastic models in fluid dynamics
Random dynamical systems
Macroscopic limits of particle systems

Secondary fields:

Stochastic integration theory
Optimal control
Applications of probability and statistics to industry (AVIO spa) and volcanology (INGV Pisa).

PUBLICATIONS

Books, or Chapters of books:

Franco Flandoli, Random Perturbation of PDEs and Fluid Dynamic Models. Lectures from the 40th Probability Summer School held in Saint-Flour, 2010, LNM 2015, Springer 2011.

Franco Flandoli, An introduction to 3D stochastic fluid dynamics. In: CIME summer school on SPDE in Hydrodynamic: Recent Progress and Prospects, pp. 51-150 (other two contributions by Sergio Albeverio and Yakov G. Sinai), Lecture Notes in Math., 1942, Springer, Berlin, 2008.

Franco Flandoli, Regularity Theory and Stochastic Flows for Parabolic SPDEs, Stochastic Monographs n. 9, Gordon and Breach Publishers 1995.

Research papers:

Ennio Fedrizzi, Franco Flandoli, Enrico Priola, Julien Vovelle, Regularity of stochastic kinetic equations, ELECTRON. J. PROBAB. 22 (2017), Paper No. 48, 42 pp.

Franco Flandoli, Benjamin Gess, Michael Scheutzow, Synchronization by noise for order-preserving random dynamical systems. ANN. PROBAB. 45 (2017), no. 2, 1325-1350.

Hakima Bessaih, Michele Coghi, Franco [Flandoli, Mean Field Limit of Interacting Filaments and Vector Valued Non-linear PDEs](#), JOURNAL STATISTICAL PHYSICS 166 (2017), n. 5, 1276-1309.

Franco Flandoli, Elena Issoglio, Francesco Russo, Multidimensional stochastic differential equations with distributional drift, TRANSACTION AMERICAN MATH. 369 (2017), n.3, 1665-1688.

Dario Domingo, Alberto d'Onofrio, Franco Flandoli, Boundedness vs unboundedness of a noise linked to tsallis q-statistics: The role of the overdamped approximation, JOURNAL MATHEMATICAL PHYSICS 58 (2017), n. 3, 033301, 14 pp.

Franco Flandoli, Benjamin Gess, Michael Scheutzow, Synchronization by noise, PROBABILITY THEORY AND RELATED FIELDS 168 (2017), no. 3-4, 511–556.

Franco Flandoli, Remarks on stochastic Navier-Stokes equations. Mathematical paradigms of climate science, 51–65, Springer INdAM Ser., 15, Springer 2016.

Vincenzo Capasso, Franco Flandoli, On stochastic distributions and currents. Math. Mech. Complex Syst. 4 (2016), no. 3-4, 373–406. 28A75.

Franco Flandoli, Possible effect of noise on stretching mechanism. Recent advances in partial differential equations and applications, 201–209, Contemp. Math., 666, Amer. Math. Soc., Providence, RI, 2016.

Franco Flandoli, Francesco Russo, Giovanni Zanco, Infinite-Dimensional Calculus Under Weak Spatial Regularity of the Processes, to appear on J. THEORET. PROBABILITY (2016), pp. 1-38

Franco Flandoli, Matti [Leimbach, Mean field limit with proliferation](#), [DISCRETE CONT. DYNAM. SYSTEMS](#) - Series B 21 (2016), n. 9, 3029-3052.

Zdzisław Brzeźniak, Franco Flandoli, Mario Maurelli, Existence and uniqueness for stochastic 2D Euler flows with bounded vorticity, ARCHIVE RATIONAL MECHANICS ANAL. 221(2016), n. 1, 107-142.

Franco Flandoli, Giovanni Zanco, An infinite-dimensional approach to path-dependent Kolmogorov's equations, ANNALS OF PROBABILITY 44 (2016), n. 4, 2643-2693.

Giuseppe Da Prato, Franco Flandoli, Michael Röckner, A. Yu. Veretennikov, Strong uniqueness for SDEs in Hilbert spaces with non-regular drift, ANNALS OF PROBABILITY 44 (2016), n. 3, 1985-2023.

Michele Coghi, Franco Flandoli, Propagation of chaos for interacting particles subject to environmental noise, ANNALS OF APPLIED PROBABILITY 26 (2016), n. 3, 1407-1442.

Francisco J. Delgado-Vences, Franco Flandoli, A spectral-based numerical method for Kolmogorov equations in Hilbert spaces, *INFIN. DIM. ANAL. QUANTUM PROBAB. REL. TOPICS* 19 (2016), n. 13, 1650020.

François Delarue, Franco Flandoli, Dario Vincenzi, Noise prevents collapse of vlasov-poisson point charges, *COMMUNICATION PURES APPLIED MATHEMATICS* 67 (2014), 1700-1736.

François Delarue, Franco Flandoli, The transition point in the zero noise limit for a 1D Peano example), *DISCRETE CONT. DYNAM. SYSTEMS* 34 (2014), 4071-4083.

Giuseppe Da Prato, Franco Flandoli, Enrico Priola, Michael Röckner, Strong Uniqueness for Stochastic Evolution Equations with Unbounded Measurable Drift Term, *J. THEORET. PROBABILITY* 28 (2015), 1571-1600.

Franco Flandoli, Mario Maurelli, Misha Neklyudov, Noise Prevents Infinite Stretching of the Passive Field in a Stochastic Vector Advection Equation, *JOURNAL MATHEMATICAL FLUID MECHANICS* 16 (2014), 805-822.

Andrea Bevilacqua, Franco Flandoli, An occupation time formula for semimartingales in \mathbb{R}^N , *STOCHASTIC PROCESSES APPLICATIONS* 124 (2014), 3342-3361.

Franco Flandoli, Peter Imkeller, Ciprian A. Tudor, 2D-Stochastic Currents over the Wiener Sheet, *J. THEORET. PROBABILITY* 27 (2014), 552-575.

Giuseppe Da Prato, Franco Flandoli, Michael Röckner, Uniqueness for continuity equations in Hilbert spaces with weakly differentiable drift, *STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS* 2 (2014), 121-145.

Giuseppe Da Prato, Franco Flandoli, Enrico Priola, Michael Röckner, Strong uniqueness for stochastic evolution equations in Hilbert spaces perturbed by a bounded measurable drift, *ANNALS OF PROBABILITY* 41 (2013), 3306-3344.

Lisa Beck, Franco Flandoli, A regularity theorem for quasilinear parabolic systems under random perturbations, *J. EVOLUTION EQUATIONS* 13 (2013), 829-874.

David Barbato, Luigi A. Bianchi, Franco Flandoli, Francesco Morandin, A dyadic model on a tree, *JOURNAL MATHEMATICAL PHYSICS* 54 (2013).

Ennio Fedrizzi, Franco Flandoli, Noise prevents singularities in linear transport equations, *JOURNAL FUNCTIONAL ANALYSIS* 264 (2013), 1329-1354.

Franco Flandoli, Interaction between noise and singularities in partial differential equations, *BOLL. UNIONE MAT. ITAL.* 6 (2013), 253-267.

Alex Mahalov, Stochastic three-dimensional rotating Navier-Stokes equations: averaging, convergence and regularity, *ARCHIVE RATIONAL MECHANICS ANAL.* 205 (2012), 195-237.

David Barbato, Franco Flandoli, Francesco Morandin, Anomalous dissipation in a stochastic inviscid dyadic model, ANNALS OF APPLIED PROBABILITY 21 (2011), no. 6, 2424–2446.

Franco Flandoli, The interaction between noise and transport mechanisms in PDEs, MILAN J. MATH. 79 (2011), n0. 2, 543-560.

Zdzislaw Brzezniak, Franco Flandoli, Misha Neklyudov, Boguslaw Zegarlinski, Conservative interacting particles system with anomalous rate of ergodicity, JOURNAL STATISTICAL PHYSICS 144 (2011), no. 6, 1171-1185.

Franco Flandoli, Regularizing properties of Brownian paths and a result of Davie, STOCHASTICS AND DYNAMICS 11 (2011), no. 2-3, 323-331.

Franco Flandoli, Enrico Giorgi, Willy P. Aspinall, Augusto Neri, Comparison of a new expert elicitation model with the Classical Model, equal weights and single experts, using a cross-validation technique, RELIABILITY ENGINEERING SYSTEM SAFETY 96 (2011), n. 10, 1292-1310.

Ennio Fedrizzi, Franco Flandoli, Pathwise uniqueness and continuous dependence of SDEs with non-regular drift, STOCHASTICS 83 (2011), no. 3, 241-257.

Stefano Attanasio, Franco Flandoli, Renormalized solutions for stochastic transport equations and the regularization by bilinear multiplicative noise, COMMUNICATIONS PARTIAL DIFFERENTIAL EQUATIONS 36 (2011), no. 8, 1455–1474.

Franco Flandoli, Massimiliano Gubinelli, Enrico Priola, Full well-posedness of point vortex dynamics corresponding to stochastic 2D Euler equations, STOCHASTIC PROCESSES APPLICATIONS 121 (2011), no. 7, 1445–1463.

Enrico Peruzzo, Michele Barsanti, Franco Flandoli, Paolo Papale, The stochastic quantization method and its application to the numerical simulation of volcanic conduit dynamics under random conditions, SOLID EARTH (2010), 49-60, doi 10.5194/se-1-49-2010.

David Barbato, Franco Flandoli, Francesco Morandin, A theorem of uniqueness for an inviscid dyadic model, C.R.A.S. Paris, Ser. I 348 (2010), no.9-10, 525-528.

Hakima Bessaih, Franco Flandoli, Edriss S. Titi, Stochastic attractors for shell phenomenological models of turbulence, JOURNAL STATISTICAL PHYSICS 140 (2010), no. 4, 688-717.

Franco Flandoli, Massimiliano Gubinelli, Enrico Priola, Flow of diffeomorphisms for SDEs with unbounded Hölder continuous drift, BULLETTIN DES SCIENCES MATHÉMATIQUES 134 (2010), pp. 405-422.

David Barbato, Franco Flandoli, Francesco Morandin, Energy dissipation and self-similar solutions for an unforced inviscid dyadic model, TRANSACTION AMERICAN MATH. SOC. 363 (2011), no. 4, 1925-1946.

Giuseppe Da Prato, Franco Flandoli, Pathwise uniqueness for a class of SDE in Hilbert spaces and applications, JOURNAL FUNCTIONAL ANALYSIS 259 (2010), no. 1, 243–267.

David Barbato, Franco Flandoli, Francesco Morandin, Uniqueness for a Stochastic Inviscid Dyadic Model, PROCEEDINGS AMERICAN MATH. SOC. 138 (2010), no. 7, 2607–2617.

Franco Flandoli, Massimiliano Gubinelli, Enrico Priola, Well-posedness of the transport equation by stochastic perturbation, INVENTIONES MATHEMATICAE 180 (2010), no. 1, 1-53.

Ciprian A. Tudor, Franco Flandoli, Brownian and fractional Brownian stochastic currents via Malliavin calculus, JOURNAL FUNCTIONAL ANALYSIS 258 (2010), no. 1, 279-306.

Stefano Attanasio, Franco Flandoli, Zero-noise solutions of linear transport equations without uniqueness: an example, C.R.A.S. Paris, Ser. I 347 (2009) 753–756.

Franco Flandoli, Remarks on uniqueness and strong solutions to deterministic and stochastic differential equations, METRIKA 69 (2009), n. 2, 101-123,

Franco Flandoli, Massimiliano Gubinelli, Francesco Russo, On the regularity of stochastic currents, fractional Brownian motion and applications to a turbulence model, ANNALES DE L'INSTITUT HENRI POINCARÉ' - Probabilités et Statistiques, 45, n. 2 (2009), 545-576

Dirk Blömker, Franco Flandoli, Marco Romito, Markovianity and ergodicity for a surface growth PDE, ANNALS OF PROBABILITY 37 (2009), no. 1, 275--313.

Benedetta Ferrario, Franco Flandoli, On a stochastic version of Prouse model in fluid dynamics, STOCHASTIC PROCESSES APPLICATIONS 118 (2008), no. 5, 762-789.

Franco Flandoli, José A. Langa, Markov attractors: a probabilistic approach to multivalued flows, STOCHASTICS AND DYNAMICS 8 (2008), no. 1, 59-75.

Franco Flandoli, Massimiliano Gubinelli, Martin Hairer, Marco Romito, Rigorous remarks about scaling laws in turbulent fluids, COMMUNICATIONS MATHEMATICAL PHYSICS 278 (2008), no. 1, 1-29.

Franco Flandoli, Marco Romito, Markov selections for the 3D stochastic Navier-Stokes equations, PROBABILITY THEORY AND RELATED FIELDS 140 (2008), no. 3-4, 407-458.

Franco Flandoli, Marco Romito, Regularity of transition semigroups associated to a 3D stochastic Navier-Stokes equation, Stochastic differential equations: theory and applications, 263-280, Interdiscip. Math. Sci., 2, World Sci. Publ., Hackensack, NJ, 2007.

Mattia Fedrigo, Franco Flandoli, Francesco Morandin, A large deviation principle for the free energy of random Gibbs measures with application to the REM, ANNALI MATEMATICA PURA APPLICATA (4) 186 (2007), no. 3, 381-417.

Ana-Bela Cruzeiro, Franco Flandoli, P. Malliavin, Brownian motion on volume preserving diffeomorphisms group and existence of global solutions of 2D stochastic Euler equation, JOURNAL FUNCTIONAL ANALYSIS 242 (2007), no. 1, 304-326.

David Barbato, Michele Barsanti, Hakima Bessaih, Franco Flandoli, Some rigorous results on a stochastic GOY model, JOURNAL STATISTICAL PHYSICS 125 (2006), no. 3, 677-716.

Franco Flandoli, On the method of Da Prato and Debussche for the 3D stochastic Navier Stokes equations, *J. EVOLUTION EQUATIONS* 6 (2006), no. 2, 269-286.

Franco Flandoli, Massimiliano Gubinelli, Statistics of a vortex filament model, *ELECTRONIC JOURNAL PROBABILITY* 10 (2005), no. 25, 865-900.

Franco Flandoli, Massimiliano Gubinelli, Mariano Giaquinta, Vincenzo M. Tortorelli, Stochastic currents, *STOCHASTIC PROCESSES APPLICATIONS* 115 (2005), no. 9, 1583-1601.

Barbara Busnello, Franco Flandoli, Marco Romito, A probabilistic representation for the vorticity of a three-dimensional viscous fluid and for general systems of parabolic equations, *PROCEEDINGS EDIMBURGH MATH. SOC.* (2) 48 (2005), no. 2, 295-336.

Franco Flandoli, Massimiliano Gubinelli, Random currents and probabilistic models of vortex filaments, *Seminar on Stochastic Analysis, Random Fields and Applications IV*, 129-139, *Progr. Probab.*, 58, Birkhäuser, Basel, 2004.

Franco Flandoli, Hannelore Lisei, Stationary conjugation of flows for parabolic SPDEs with multiplicative noise and some applications, *STOCHASTIC ANALYSIS APPLICATIONS* 22 (2004), no. 6, 1385-1420.

Franco Flandoli, Francesco Russo, Jochen Wolf, Some SDEs with distributional drift. II. Lyons-Zheng structure, Itô's formula and semimartingale characterization, *RANDOM OPERATORS STOCHASTIC EQUATIONS* 12 (2004), no. 2, 145-184.

Hakima Bessaih, Franco Flandoli, Limit behaviour of a dense collection of vortex filaments, *MATH. MODEL METHODS APPL. SCI.* 14 (2004), no. 2, 189-215.

Franco Flandoli, Some remarks on a statistical theory of turbulent flows. Probabilistic methods in fluids, 144-160, *World Sci. Publ.*, River Edge, NJ, 2003.

Hakima Bessaih, Franco Flandoli, A mean field result for 3D vortex filaments, *Probabilistic methods in fluids*, 22-34, *World Sci. Publ.*, River Edge, NJ, 2003.

Franco Flandoli, Francesco Russo, Jochen Wolf, Some SDEs with distributional drift. I. General calculus. *OSAKA J. MATH.* 40 (2003), no. 2, 493-542.

Franco Flandoli, Marco Romito, Probabilistic analysis of singularities for the 3D Navier-Stokes equations, *Proceedings of EQUADIFF*, 10 (Prague, 2001). *Math. Bohem.* 127 (2002), no. 2, 211--218.

Franco Flandoli, *Stochastic problems in fluid dynamics. Stochastic partial differential equations and applications* (Trento, 2002), 209-234, *Lecture Notes in Pure and Appl. Math.*, 227, Dekker, New York, 2002.

Franco Flandoli, On a probabilistic description of small scale structures in 3D fluids, *ANNALES DE L'INSTITUT HENRI POINCARÉ' - Probabilités et Statistiques* 38 (2002), no. 2, 207-228.

Franco Flandoli, Francesco Russo, Generalized calculus and SDEs with non regular drift, *STOCHASTIC STOC. REP.* 72 (2002), no. 1-2, 11-54.

Franco Flandoli, Francesco Russo, Generalized integration and stochastic ODEs, ANNALS OF PROBABILITY 30 (2002), no. 1, 270-292.

Franco Flandoli, Massimiliano Gubinelli, The Gibbs ensemble of a vortex filament, PROBABILITY THEORY AND RELATED FIELDS 122 (2002), no. 3, 317-340.

Franco Flandoli, Marco Romito, Partial regularity for the stochastic Navier-Stokes equations, TRANSACTION AMERICAN MATH. SOC. 354 (2002), no. 6, 2207-2241.

Franco Flandoli, IdaMinelli, Probabilistic models of vortex filaments, CZECHOSLOVAK MATH. J. 51(126) (2001), no. 4, 713-731.

Franco Flandoli, Marco Romito, Statistically stationary solutions to the 3-D Navier-Stokes equation do not show singularities, ELECTRONIC JOURNAL PROBABILITY 6 (2001), no. 5, 15 pp.

Hakima Bessaih, Franco Flandoli, Weak attractor for a dissipative Euler equation, J. DYNAM. DIFFERENTIAL EQUATIONS 12 (2000), no. 4, 713-732.

Franco Flandoli, Björn Schmalfuß, Weak solutions and attractors for three-dimensional Navier-Stokes equations with nonregular force, J. DYNAM. DIFFERENTIAL EQUATIONS 11 (1999), no. 2, 355-398.

Franco Flandoli, Jose A. Langa, Determining modes for dissipative random dynamical systems, STOCHASTIC STOC. REP. 66 (1999), no. 1-2, 1-25.

Hakima Bessaih, Franco Flandoli, 2-D Euler equation perturbed by noise, NoDEA NONLINEAR DIFFERENTIAL EQUATIONS APPL. 6 (1999), no. 1, 35-54.

Luigi C. Berselli, Franco Flandoli, Remarks on determining projections for stochastic dissipative equations, DISCRETE CONT. DYNAMICAL SYSTEMS 5 (1999), no. 1, 197-214.

Franco Flandoli, Fausto Gozzi, Kolmogorov equation associated to a stochastic Navier-Stokes equation, JOURNAL FUNCTIONAL ANALYSIS 160 (1998), no. 1, 312-336.

Hans Crauel, Franco Flandoli, Hausdorff dimension of invariant sets for random dynamical systems, J. DYNAM. DIFFERENTIAL EQUATIONS 10 (1998), no. 3, 449-474.

Hans Crauel, Franco Flandoli, Additive noise destroys a pitchfork bifurcation, J. DYNAM. DIFFERENTIAL EQUATIONS 10 (1998), no. 2, 259-274.

Franco Flandoli, Irreducibility of the 3-D stochastic Navier-Stokes equations, JOURNAL FUNCTIONAL ANALYSIS 149 (1997), no. 1, 160-177.

Hans Crauel, Arnaud Debussche, Franco Flandoli, Random attractors, J. DYNAM. DIFFERENTIAL EQUATIONS 9 (1997), no. 2, 307-341.

Franco Flandoli, Stochastic differential equations in fluid dynamics, Rend. Sem. Mat. Fis. Milano 66 (1996), 121-148 (1998).

Franco Flandoli, Björn Schmalfuss, Random attractors for the 3D stochastic Navier-Stokes equation with multiplicative white noise, STOCHASTIC STOC. REP. 59 (1996), no. 1-2, 21-45.

Franco Flandoli, Stochastic flows for nonlinear second-order parabolic SPDE, ANNALS OF PROBABILITY 24 (1996), no. 2, 547-558.

Franco Flandoli, Stochastic evolution equations with non-coercive monotone operators, World Congress of Nonlinear Analysts '92, Vol. I-IV (Tampa, FL, 1992), 1765-1777, de Gruyter, Berlin, 1996.

Franco Flandoli, Vincenzo M. Tortorelli, Time discretization of Ornstein-Uhlenbeck equations and stochastic Navier-Stokes equations with a generalized noise, STOCHASTIC STOC. REP. 55 (1995), no. 1-2, 141-165.

Alain Bensoussan, Franco Flandoli, Stochastic inertial manifold, STOCHASTIC STOC. REP. 53 (1995), no. 1-2, 13-39.

Hans Crauel, Franco Flandoli, Dissipativity of three-dimensional stochastic Navier-Stokes equation, Seminar on Stochastic Analysis, Random Fields and Applications (Ascona, 1993), 67-76, Progr. Probab., 36, Birkhäuser, Basel, 1995.

Franco Flandoli, Bohdan Maslowski, Ergodicity of the 2-D Navier-Stokes equation under random perturbations, COMMUNICATIONS MATHEMATICAL PHYSICS 172 (1995), no. 1, 119-141.

Zdzislaw Brzeniak, Franco Flandoli, Almost sure approximation of Wong-Zakai type for stochastic partial differential equations, STOCHASTIC PROCESSES APPLICATIONS 55 (1995), no. 2, 329-358.

Franco Flandoli, Dissipativity and invariant measures for stochastic Navier-Stokes equations, NONLINEAR DIFFERENTIAL EQUATIONS APPL. NoDEA 1 (1994), no. 4, 403-423.

Hans Crauel, Franco Flandoli, Attractors for random dynamical systems, PROBABILITY THEORY AND RELATED FIELDS 100 (1994), no. 3, 365-393.

Franco Flandoli, On the direct solution of Riccati equations arising in boundary control theory, ANNALI MATEMATICA PURA APPL. 163 (1993), no. 1, 93-131.

Zdzislaw Brzeniak, Marek Capinski, Franco Flandoli, Pathwise global attractors for stationary random dynamical systems, PROBABILITY THEORY AND RELATED FIELDS 95 (1993), no. 1, 87-102.

Franco Flandoli, On the semigroup approach to stochastic evolution equations, STOCHASTIC ANALYSIS APPLICATIONS 10 (1992), no. 2, 181-203.

Zdzislaw Brzeniak, Marek Capinski, Franco Flandoli, Stochastic Navier-Stokes equations with multiplicative noise, STOCHASTIC ANALYSIS APPLICATIONS 10 (1992), no. 5, 523-532.

Franco Flandoli, A stochastic reaction-diffusion equation with multiplicative noise, APPLIED MATHEMATICS LETTERS, 4 (1991), no. 4, 45-48.

Paolo Acquistapace, Franco Flandoli, Brunello Terreni, Initial boundary value problems and optimal control for nonautonomous parabolic systems, SIAM J. CONTROL OPTIMIZATION 29 (1991), no. 1, 89-118.

Franco Flandoli, Solution and control of a bilinear stochastic delay equations, SIAM J. CONTROL OPTIMIZATION 28 (1990), no. 4, 936-949.

Franco Flandoli, A counterexample in the boundary control of parabolic systems, APPLIED MATHEMATICS LETTERS 3 (1990), no. 2, 47-50.

Zdzislaw Brzeniak, Marek Capinski, Franco Flandoli, Approximation for diffusion in random fields, STOCHASTIC ANALYSIS APPLICATIONS 8 (1990), no. 3, 293-313.

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Nicola Bellomo, Franco Flandoli, Stochastic partial differential equations in continuum physics-on the foundations of the stochastic interpolation method for Ito's type equations, MATHEMATICS COMPUTERS SIMULATION 31 (1989), no. 1-2, pp. 3-17.

Bruno Codenotti, Franco Flandoli, A Monte Carlo method for the parallel solution of linear systems, JOURNAL COMPLEXITY 5 (1989), no. 1, 107-117.

Franco Flandoli, Irena Lasiecka, Roberto Triggiani, Algebraic Riccati equations with non-smoothing observation arising in hyperbolic and Euler-Bernoulli boundary control problems, ANNALI MATEMATICA PURA APPL. 153 (1988), no. 1, 307-382.

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Franco Flandoli, Invertibility of Riccati operators and controllability of related systems, SYSTEMS CONTROL LETTERS 9 (1987), no. 1, 65-72.

Franco Flandoli, Direct solution of a Riccati equation arising in a stochastic control problem with control and observation on the boundary, APPLIED MATHEMATICS OPTIMIZATION 14 (1986), no. 1, 107-129.

Franco Flandoli, Riccati equation arising in the boundary control of stochastic hyperbolic systems, STOCHASTIC ANALYSIS APPLICATIONS, 4 (1986), no. 2, 131-150.

Franco Flandoli, Algebraic Riccati equation arising in boundary control problems, Proceedings of the IEEE Conference on Decision and Control (1985), 631-636.

Franco Flandoli, Riccati equation arising in a boundary control problem with distributed parameters, SIAM J. CONTROL OPTIMIZATION 22 (1984), no. 1, 76-86.

Franco Flandoli, Riccati equation arising in a boundary control problem with distributed parameters, Proceedings of the IEEE Conference on Decision and Control 3 (1983), 1245-1250.

Some invited talks and conferences:

– “22nd IEEE Conference on Decision and Control”, S. Antonio, Texas, 1983

- Inst. Comput. Appl. in Sci. Engineering (NASA Langley Research Center), Virginia, 1984
- "2th International Conference on Control of Distributed Parameter Systems", Vorau (Austria), 1984
- "Stochastic Partial Differential Equations and Applications", Trento, 1985
- "3th International Conference on Control of Distributed Parameter Systems", Vorau (Austria), 1986
- Jagiellonian University, Cracov, 1987
- "4th International Conference on Control of Distributed Parameter Systems", Vorau (Austria), 1988
- "5th IFAC Symposium on Control of Distributed Parameter Systems", Perpignan, 1989
- "Stochastic Partial Differential Equations and Applications", Trento, 1990
- "Effective Stochastic Analysis", Paris, 1990
- "Lyapunov Exponents", Oberwolfach, 1990
- "New Trends in Systems Theory", Genova, 1990
- Institut Dynamische Systeme, Bremen, 1991
- "Stochastic Partial Differential Equations and Their Applications", Charlotte, North Carolina (USA), 1991
- "Evolution Equations", Pisa, Scuola Normale Superiore, 1991
- "15th IFIP Conference on System Modelling and Optimization", Zurich, 1991
- "Equations aux derives partielles stochastiques", Marseille, 1992
- University of Southern California, Los Angeles, California, 1992
- "World Congress of Nonlinear Analysts", Tampa, Florida, 1992
- "Control of Partial Differential Equations", Trento, 1993
- "Stochastic Analysis, Random Fields and Applications", Ascona, 1993
- "Stochastic evolution equations", Varsavia, 1993
- Université Paris-Sud, Orsay, 1993
- "Stochastic PDEs and Random Media", Marseille, 1994
- "Nonlinear and Stochastic Systems", Oberwolfach, 1995
- Institut Dynamische Systeme, Bremen, 1995
- "Stochastic Partial Differential Equations and Applications", Trento, 1997
- "Random Dynamical Systems", Bremen, 1997
- Technische Universität Berlin, 1997
- Institut Henry Poincaré, Paris, 1997
- "Deterministic and Stochastic Evolutionary Systems", Pisa, 1997
- "Author des equations aux derives partielles stochastiques", Paris XIII, 1998
- University of Hull, 1998
- "Stochastic Tage 1998", München, 1998
- Czech Academy of Sciences, Prague, 1998
- Université Paris XIII, 1998
- "Stochastic Evolution Equations", Lisbon, 1999
- "Stochastic Analysis, a Durham Research Symposium", Durham, 1999
- "Stochastic Analysis", Oberwolfach, 1999
- Université Paris XIII, 1999
- "Stochastic Partial Differential Equations and Applications", Trento, 2000.
- University of Zurich, 2000
- "Equadiff10", Prague, 2001

- “Percolation, Particle systems and other stochastic processes”, Milan, 2001
- University of Lisbon, 2001
- University of Milan, 2001
- University of Oxford, 2001
- “Stochastic Partial Differential Equations and Applications”, Trento, 2002
- “Probabilistic Methods in Fluids”, Swansea, 2002
- University of Bologna, 2002
- “Stochastic Analysis, Random Fields and Applications, Ascona, 2002
- “Stochastic Partial Differential Equations and Applications”, Trento, 2004
- “Stochastics in Fluid Dynamics”, ETH Zurich, 2005
- University of Hull, 2005
- University of Warwick, 2005
- “SPDEs and random fields”, Bielefeld, 2005
- “Stochastic Analysis, Random Fields and Applications, Ascona, 2005
- ZIF, Bielefeld, 2005
- “Nonautonomous and stochastic dynamics”, Seville, 2005

- “Analytical and stochastic Fluid dynamics”, Berkeley, 2005
- “Dynamical Methods and Mathematical Modelling”, Valladolid, 200
- “Stochastic Partial Differential Equations and Applications”, Trento, 2008
- “Infinite dimensional random dynamical systems, Oberwolfach, 2008
- “Turbulence and statistical mechanics”, Les Houches, 2009
- Ecole Polytechnique, Paris, 2009
- European Geophysics Congress, Vienna, 2009
- ETH Zurich, 2009
- “Stochastic Analysis, SPDE’s, Particle Systems, Optimal Transport”, Trento, 2010
- Semester on SPDE, Newton Institute, Cambridge, 2010, invited talks at three workshops
- University of Oxford, 2010
- University of Augsburg, 2010.
- “Deterministic and Stochastic PDEs”, Evry 2011
- Humboldt University of Berlin 2011
- University of Nice, seminars on SPDEs in fluid mechanics, 2011
- "Noise and singularities", University of Kyoto 2011
- "Noise and singularities", Lausanne 2012
- "The effect of a noise of transport type on certain PDEs", Poitiers 2012
- "The effects of noise on partial differential equations", Medallion Lecture, 8th World Congress in Probability and Statistics, Istanbul 2012
- "Uniqueness by noise in SDEs ad SPDEs", Jena 2012
- "The effects of transport noise on PDEs", Cambridge, Newton Institute 2012
- "Stochastic equations in fluid dynamics", Palo Alto 2012
- "SPDEs in climatology", Bielefeld 2012
- "Synchronization in random dynamical systems", Max Planck Inst. Leipzig 2013
- "Noise and singularities", Berlin 2013.
- “regularization by noise”, York 2013.
- "Noise prevents singularities in advection equation", Levico 2014

- "Synchronization by noise", Imperial College London 2014
- "Stochastic delay and path dependent equations", TU Berlin 2014
- "Infinite dimensional approach to path dependent problems", Imperial College London 2014
- "Introduction to mathematical oncology", Berlin 2014
- "Stochastic Euler equations", EPFL Lausanne 2015
- "Regularization by noise", Marseille 2015
- "Regolarizzazione dovuta al rumore in equazioni differenziali", UMI, Siena 2015
- "Random attractors and synchronization by noise", Frankfurt 2016
- "Particle systems in Mathematical Oncology", Salerno 2016
- "Modelli in matematica per l'oncologia", Torino 2016
- "Stochastic regularization", Toulouse 2016
- "Mean field limit of vortex filaments", Warwick 2016
- "Limite zero-noise per equazioni mal poste", Roma Tor Vergata 2016.
- "Particle systems and FKPP equativo", Kyoto University 2016
- "Stochastic Fluid Dynamics", Waseda University Tokyo, 2016
- "3D stochastic Euler equations", RIMS Kyoto 2016-
- "On stochastic Euler equations", Warwick 2017
- "Particle systems and Vlasov-Navier-Stokes equations", Nice 2017
- "Regularization by noise" Oberwolfach 2017
- "KR versus LPS condition", Edinburgh 2017
- "2D Euler equations with random initial conditions", Edinburgh 2017
- Durham Symposium on Stochastic Analysis, 2017
- seminars in Wuhan, Weihai, Nanjing, China, 2017
- "2D stochastic Euler equations" Bielefeld 2017
- "PDEs with random initial conditons", Pavia 2017
- "Models of growth" Nice 2017
- "On 2D Euler equations with random initial conditions", Verona 2017.