

Ennio Fedrizzi

Curriculum Vitae et Studiorum

Personal Information

Place and date of birth: Trento, Italy, 13/01/1985.

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Graduate Studies and Teaching

- **2013-2015:** **Post-doc** Labex MILyon, Lyon 1 University, ICJ: “Stochastic kinetic equations”, under the supervision of Professor Julien Vovelle.
- **2010-2012:** **PhD** Paris 7 Diderot: “Partial Differential Equations and Noise” under the supervision of Professor Josselin Garnier. Defense: December 13th, 2012.
- **2010-2012:** **Moniteur**, Paris 7 University, 64 teaching hours per year, for 2 years.
- **2010:** **Vacataire**, Paris 6 University, teaching assistant for 1 course in analysis, 24 hours.
- **2004-2009:** Student at the **Scuola Normale Superiore** of Pisa in Sciences, Mathematics. Licenza (70/70 cum LAUDE), december 21st, 2009.
- **2007-2009:** **Master degree** (Laurea Specialistica) in Mathematics (110/110 cum LAUDE) at Pisa University. Thesis title: “Uniqueness and flow theorems for SDEs with low regularity of the drift”, under the supervision of Professor Franco Flandoli, Defense: September 25th, 2009.
- **2008:** Semester of exchange ERASMUS at ENS-Cachan.
- **2007:** **Bachelor Degree** (Laurea Triennale) in Mathematics (110/110 cum LAUDE), at Pisa University. Thesis title: “Una formula probabilistica di rappresentazione di soluzioni molto deboli di equazioni paraboliche a coefficienti poco regolari”, under the supervision of Professor F. Flandoli, September 27th, 2007.
- **2004:** Awarded one of the 40 scholarships of INDAM for the Degree in Mathematics. (Renounced to accept the scholarship of the Scuola Normale Superiore of Pisa).
- **2004:** High School diploma (Diploma di maturità scientifica P.N.I.) 100/100, at the Galileo Galilei High School, Trento, Italy.

Scientific Publications

- “Pathwise Uniqueness and Continuous Dependence for SDEs with Nonregular Drift”, with F. Flandoli, *Stochastics: An International Journal of Probability and Stochastic Processes*, 2011. D.o.i. : 10.1080/17442508.2011.553681.
- “Imaging with noise blending”, with M. de Hoop, J. Garnier, and K. Sølna, *Contemporary Mathematics*, 2012. D.o.i. : 10.1090/conm/577/11466.
- “Hölder Flow and Differentiability for SDEs with Nonregular Drift”, with F. Flandoli, *Stochastic Analysis and Applications*, 2013. D.o.i. : 10.1080/07362994.2012.628908.
- “Noise prevents singularities in linear transport equations”, with F. Flandoli, *Journal of Functional Analysis*, 2013. D.o.i. : 10.1016/j.jfa.2013.01.003.
- “Stability of solitons under rapidly oscillating random perturbations of the initial conditions”, to appear in *Annals of Applied Probability*. Preprint available on ArXiv: 1201.3753.

Submitted works:

- “High frequency analysis of imaging with noise blending”, revise and resubmit, DCDS-B. Preprint available on ArXiv: 1210.2382.

Conferences and Seminars

- **1/2014** 9th International Meeting on Stochastic partial differential equations and applications. **Seminar**: “Noise prevents singularities in linear transport equations”. Levico, Italy.
- **12/2013** **Seminar** “Régularisation par le bruit dans les équations de transport”, Journées MMCS, Lyon.
- **8/2013** Short **visiting** and **invited speaker**, Workshop “Two days in stochastic analysis”, UNICAMP Campinas University, Brazil.
- **8/2013** Brazilian School of Probability. Poster presented: “Noise prevents singularities in linear transport equations”, Mambucaba, Rio de Janeiro, Brazil.
- **4/2013** Opening conference of the semester Perspectives in analysis and probability, Lebesgue centre, Rennes, France.
- **7/2012** Summer school of probability, Saint Flour, France. Seminar: Imaging with noise blending.
- **6/2012** Conference of the semester “Stochastic Processes and Applications”, Bernoulli Center and EPFL, Lausanne, Suisse. **Poster** presented: “Imaging with noise blending”.
- **4/2012** **Invited** as young researcher to the semester “Stochastic Processes and Applications”, Bernoulli Center and EPFL, Lausanne, Suisse.
- **10/2011** Short visiting, Università di Pisa.
- **6/2011** 35th Stochastic Processes and Applications conference, Oaxaca, Mexico. **Seminar** : “Uniqueness, Hölder flow and differentiability for SDEs with nonregular drift”.
- **5/2011** Seminar “Uniqueness and flow theorem for SDEs with low regularity of the drift”, Groupe de travail des thésards of LPMA.
- **7/2010** Summer school of probability, Saint Flour, France. Seminar: Uniqueness and Flow Theorems for SDEs with low regularity of the drift.
- **11/2008** Groupe de Recherche CHANT "Approches probabilistes pour des systèmes de particules et des écoulements fluides", Rennes 1 University and ENS-Chachan-Bretagne, France.
- **2-5/2004** Seminar and visit of CERN research center, Geneva, Suisse.
- **5/2004** Seminar in preparation to the selection for the International Physics Olympiad at Trieste University and SISSA, Trieste.
- **9/2003** Stage in preparation to the International Mathematics Olympiad at SNS, Pisa.
- **8/2003** Physics summer school, organized by the Italian Physics Olympiad committee, Sassoferrato (AN).

Awards

- 2011**: **Best Master thesis** in probability award of "La Sapienza" foundation, Rome, edition 2011.
- 2004**: **Gold medal** at both Italian Mathematics and Physics Olympiads.
- 2003**: **Gold medal** at the Italian Mathematics Olympiad and honorary mention at the Italian Physics Olympiad.

Languages

Italian (mother tongue), **English** (excellent written and oral level - Cambridge Advanced Certificate), **French** (good level – present working language), **Spanish** (good level), **German** (basic knowledge).

Computer skills

- Excellent use of Windows, Linux and Mac environments.
- Microsoft Office/Open Office: excellent use of Word, Powerpoint and Excell.
- Programming languages : C/C++, Fortran 96, Matlab, Maple, LaTeX.