Felice Iandoli

CONTACT INFORMATION

Laboratoire Jacques Louis Lions
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RESEARCH INTERESTS

Microlocal Analysis, Dispersive Estimates, Wave and Schrödinger Equations, Dynamical Systems, Nonlinear Dispersive PDEs, Normal Forms

CAREER AND EDUCATION

Laboratoire J.L. Lions, Sorbonne Université

Post-doctoral researcher funded by ERC ANADEL, *starting from October 1-st, 2019.*

Laboratoire J.A. Dieudonné, Université de Nice

Post-doctoral researcher funded by ERC ANADEL, *November 1-st, 2018-30 September, 2019.*

SISSA

Ph.D. in Mathematical analysis, models and applications.
The thesis has been defended on 26/09/2018, the examination has been passed *cum laude*.

- Title of the thesis: Local and almost global solutions for fully-nonlinear Schrödinger equations on the circle
- Advisors: Prof. Massimiliano Berti and Dr. Roberto Feola

University of Pisa

Master degree in mathematics, grade: 110/110 *cum laude*

- Title of dissertation: Teoria di scattering per NLS (eng: Scattering theory for NLS)
- Advisor: Prof. Nicola Visciglia

PUBLICATIONS

•F. IANDOLI, R. Scandone, *Dispersive estimates for Schrödinger operators with point interactions in* $\mathbb{R}^3$*,* **Advances in Quantum Mechanics: Contemporary Trends and Open Problems**, A. Michelangeli and G. Dell'Antonio, eds., Springer INdAM Series, vol. 18, Springer International Publishing, (2017).

•R. Feola, F. IANDOLI, *Local well-posedness for quasi-linear NLS with large Cauchy data on the circle,* **Annales de l'Institut Henri Poincaré (C) Non Linear Analysis**, 36(1): 119-164, 2019. 10.1016/j.anihpc.2018.04.003, (2018).

•R. Feola, F.IANDOLI, *Long time existence for fully nonlinear NLS with small Cauchy data on the circle*, accepted on **Annali della scuola Normale Superiore di Pisa**, DOI: 10.2422/2036-2145.201811-003, preprint: arxiv.org/abs/1806.03437, (2019).

•R. Feola, F.IANDOLI, *A non-linear Egorov theorem and Poincaré-Birkhoff normal forms for quasi-linear pdes on the circle*, preprint: arxiv.org/abs/2002.12448, (2020).

•R. Feola, F.IANDOLI, *Local well-posedness for the quasi-linear Hamiltonian Schrödinger equation on tori*, preprint: arxiv.org/abs/2003.04815, (2020).

•R. Feola, B. Grébert, F.IANDOLI, *Long time solutions for quasi-linear Hamiltonian perturbations of Schrödinger and Klein-Gordon equations on tori*, preprint: arxiv.org/abs/2009.07553, (2020).

•J., Bernier, R. Feola, B. Grébert, F.IANDOLI, *Long-time existence for semi-linear beam equations on irrational tori*, preprint: https://arxiv.org/abs/2011.02345, (2020).

Invited Conferences	Invited speaker at: • *Dynamics of nonlinear dispersive PDE's*, February 2018, La Thuile, Italy, Invited by Prof. Nicola Visciglia. • *Nonlinear Dispersive PDE's*, October 2018, Università Sapienza, Rome, Italy, Invited by Prof. Oana Ivanovici. • *Hamiltonian PDEs and nonlinear waves*, February 2019, La Thuile, Italy, Invited by Dr. David Lafontaine.
Seminars	• *Local and almost global solutions for quasi-linear Schrödinger equations*, 2020, Séminaire Enriques-Lebesgue, Milano-Nantes, via ZOOM, Invited by Prof. Dario Bambusi. • *Long time existence for small solutions of Hamiltonian or reversible quasilinear equations on the circle*, 2020, Séminaire de l'équipe EDP, IECL, Nancy, France, Invited by Dr. Ilaria Lucardesi. • *Long time solutions for the fully-nonlinear NLS on the circle*, 2020, Séminaire du LAGA, Paris 13, Paris, France, Invited by Prof. Jean Marc Delort. • *Local and almost global solutions for fully non-linear Schrödinger equations on the circle*, 2018, Laboratoire J.A. Dieudonné, Nice, France, Invited by Dr. Oana Ivanovici. • *On the quasi-linear Schrödinger equations on the circle*, 2018, Università di Pisa, Pisa, Italy, Invited by Prof. Vladimir Georgiev.
Visiting researcher	From October 1-st, to 31 October, 2018, Laboratoire J.A. Dieudonné, Nice, France, Invited by Prof. Oana Ivanovici.
Attended conferences	• *Normal forms and large time behavior for nonlinear PDE*, 2015, IHES, Bures-sur-Yvette, France. • *Nonlinear Waves 2016: Summer School*, 2016, Centre Henri Lebesgue, Nantes, France. • *Hamiltonian Dynamics, PDE's and Waves on the Amalfi coast* , 2016, Maiori, Italy. • *Winter School "Dynamics and PDE's"*, 2017, Saint-Etienne de Tinée, France. • *Linear and Nonlinear Wave Phenomena: Stability, Propagation of Regularity and Turbulence*, 2018, Cortona, Italy. • *Quantum Resonances and Related Topics (conference in honor of André Martinez)*, 2019, Paris, France. • *Dispersive Waves and Related Topics (conference in honor of Gilles Lebeau)*, 2019, Bergen, Norway. • *New Trends in Propagation of Linear and Nonlinear Wave Phenomena*, 2019, Erice, Sicily.
Experience as a peer-reviewer	MDPI Mathematics
Teaching (in french)	TD: *Séries et Séries de fonctions*, 2020-2021, UPMC (Sorbonne Université), L2 TD: *Equations différentielles*, 2020-2021, UPMC (Sorbonne Université), L2
Spoken languages	• Italian: mother tongue • English: fluent • French: fluent