Lorenzo Pompili

Curriculum vitae

Personal data

Email:	pompili@math.uni-bonn.de
Institutional address:	Mathematisches Institut Universität Bonn
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	D – 53115 Bonn
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Education

Oct. 2020 (exp.) March 2025	*PhD student in Mathematical Analysis,* University of Bonn Thesis: *"On the Bäcklund transform and the stability of the line soliton of the KP-II equation on the plane"* Advisor: Prof. Dr. Herbert Koch
Sep. 2018 Sep. 2020	*Master's Degree in Mathematics,* Sapienza University of Rome Final grade: 110/110 cum laude Average of marks: 29,57/30 Thesis: *"A class of Infinite Energy Solutions to the Supercritical NLS"* Advisor: Prof. Piero D'Ancona
Sep. 2015 Sep. 2018	*Bachelor's Degree in Mathematics,* Sapienza University of Rome Final grade: 110/110 cum laude Average of marks: 29,72/30 Advisor: Prof. Piero D'Ancona

Publications and preprints

1. L. Pompili. *On the Bäcklund transform and the stability of line soliton of the KP-II equation on $\mathbb{R}^2$.* Preprint: arxiv:2412.12530, 2024.

Invited talks

- RSME's *7th Congress of Young Researchers,* Bilbao, Spain, January 2025 (upcoming)
- NPDE seminar, *KIT,* Karlsruhe, Germany, April 2024
- Analysis and PDE seminar, *Hiroshima University,* Higashi-Hiroshima, Japan, June 2023

Other talks

- Graduate seminar on Advanced topics in Analysis and PDEs, *University of Bonn,* July 2024
- Graduate seminar on Advanced topics in Analysis and PDEs, *University of Bonn,* April 2023
- Master seminar, *University of Milano-Bicocca,* March 2022

Research trips

04 June – 12 July 2023	Visit at Hiroshima University (Higashi-Hiroshima, Japan) Funded by: *Global Math Exchange Program,* BIGS mathematics Host: Prof. Tetsu Mizumachi

Scholarships, Funding and Awards

- *Oberwolfach Leibniz Graduate Students grant,* June 2022
- *DAAD scholarship "Graduate School Scholarship Programme, 2020",* 2020-2023
- *Excellence programme – Master's degree in Mathematics,* Sapienza University of Rome, 2020
- *Excellence programme – Bachelor's degree in Mathematics,* Sapienza University of Rome, 2018

Academic Activities

S.S. 2024	Teaching assistant, Bachelor seminar *"Dynamics of the logistic map",* University of Bonn
W.S. 2023-2024	Tutor, Bachelor/Master course *"PDEs and functional analysis",* University of Bonn
W.S. 2022-2023	Teaching assistant, Bachelor seminar "*S2B2 – Partial Differential Equations*", University of Bonn

| W.S. 2021-2022 | Teaching assistant, Graduate seminar *"Evolution equations in fluid dynamics"*, University of Bonn |
| S.S. 2020 | Tutor, Bachelor courses: *Analysis I* and *Geometry I*, Sapienza University of Rome |

Conferences and Schools

- *RSME's 7th Congress of Young Researchers*, Bilbao, Spain, January 2025
- Arbeitsgemeinschaft (Working Group): *Quantum Signal Processing and Nonlinear Fourier Analysis,* MFO, Oberwolfach, 6-11 Oct. 2024
- Summer school *on Harmonic Analysis and PDEs: Strichartz and resolvent estimates,* Bilbao, 1-5 July 2024
- Spring school: *Spectral Theory, Fourier Analysis and PDEs*, Bilbao, 27-31 May 2024
- Workshop: *Harmonic Analysis and Differential Equations (Hade)*, Bilbao, 05 - 08 Sep. 2023
- Workshop: *Harmonic Analysis and Partial Differential Equations,* Bonn, 29 May - 02 June 2023
- Workshop: *Workshop on Analysis of PDEs in Karlsruhe*, KIT, Karlsruhe, 26 - 31 Mar. 2023
- Seminar: *Operator-Adapted Spaces in Harmonic Analysis and PDEs*, MFO, Oberwolfach, 20 - 26 Nov. 2022
- Seminar: *Free boundary problems in fluid dynamics*, MFO, Oberwolfach, 23 - 29 Oct. 2022
- Summer School: *Geometric dispersive PDEs*, University Center Obergurgl, 25 - 30 Sep. 2022
- Summer School: *Geometric analysis and Nonlinear Partial Differential Equations*, Bonn, 08 - 12 Aug. 2022
- Summer School: *2nd IST Austria Summer School in Analysis and PDEs* Klosterneuburg, 25 - 29 June 2022
- Workshop: *Nonlinear Waves and Dispersive Equations,* MFO, Oberwolfach, 26 Giu. - 02 July 2022
- Research School: *Mathematical Advances in Geophysical Flows,* CIRM, Marseille Luminy, 03 - 08 Apr. 2022