

Salvatore Ivan Trapasso

Contact information

Current pos. Assistant professor (RTD-B) of mathematical analysis

Current workplace Dipartimento di Scienze Matematiche "G. L. Lagrange" (DISMA)
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Profiles  arXiv •  MathGenealogy •  ResearchGate •  PoliTO staff page

Research areas

Harmonic analysis in phase space • Mathematical quantum theory • Applied harmonic analysis.

Former positions

2022–2025 **Junior assistant professor (RTD-A)**,
Department of Mathematics "G. L. Lagrange" (DISMA), Politecnico di Torino

2020–2022 **Postdoctoral research fellow (assegno di ricerca)**,
Machine Learning Genoa Center (MaLGA) & DIMA, Università degli Studi di Genova

Education

2017–2020 **Ph.D. in Pure and Applied Mathematics**, *Università & Politecnico di Torino*

2015–2017 **M.Sc. in Mathematics**, *Università degli Studi di Torino*

2012–2015 **B.Sc. in Physics**, *Università degli Studi di Torino*
Student at the University of Pisa in 2012–2014.

Awards and distinctions

 2023 **Axioms 2022 Young Investigator Award**

2020 **Premio di Qualità 2019 for Ph.D. students**, *Politecnico di Torino*

 2020 **Best Paper Award**, *International Conference on Generalized Functions (Ghent)*

2017 **Special distinction ("menzione di merito")**, *Università degli Studi di Torino*
Awarded for graduating with average $> 30/30$ — all but one mark *cum laude*.

Publications

The full and up-to-date list of my publications can be found at: trapasso.info/publications/.

Preprints are available in my  [arXiv profile](#).

Editorial responsibilities

- 2025 **Section Editor**, *Complex Analysis and Operator Theory*, Springer Birkhäuser
- 2025 **Member of the Editorial Board**, *Advances in Operator Theory*, Springer Birkhäuser
- 2025 **Associate Editor**, *University Texts in the Mathematical Sciences*, Springer

Selected communications

- 2026 *Forum on Modulation Spaces and Regularity Theory in Harmonic Analysis and PDE* (Kerala SoM)
Harmonic Analysis Seminar (Vienna)
- 2024 *Analysis and Applications Seminar* (TU Delft)
The ABCs of Sparsity and Singular Structures (RWTH Aachen)
Pseudo-Differential Operators and Related Topics (Ghent Analysis & PDE Center)
- 2023 *Seminario del Dipartimento di Matematica* (Trento)
Workshop on Quantum Harmonic Analysis (NTNU Trondheim)
XLII Convegno Nazionale di Analisi Armonica (Milano)
- 2022 *Giornate UMI: Matematica per l'Intelligenza Artificiale e il Machine Learning* (Torino)
OTAMP — Operator Theory, Analysis and Mathematical Physics (Stockholm)
Third Italian Meeting on Probability and Mathematical Statistics (Bologna)
International Conference “100 years UMI — 800 years UniPD” (Padova)
- 2021 *OPSO — One-Parameter Semigroups of Operators* (HSE)
Online International Conference on Computational Harmonic Analysis
XX International Congress on Mathematical Physics (YRS) (Geneva)
- 2020 *International Conference on Generalized Functions* (Ghent)
NuHaG Harmonic Analysis Seminar (Vienna)
- 2019 *DQ Seminar — Chair X* (Würzburg)
ATFA — Aspects of Time-Frequency Analysis (Torino)

Organization of scientific events

- Since 2025 **QuanTO — Quantum Lectures in Torino**
Founding member of the steering committee.
- Apr 2024 **Mathematical Aspects of Quantum Information**
~ 70 participants. 1 mini-course, 4 invited lectures.
- Sep 2022 **Summer School “Applied Harmonic Analysis and Machine Learning 2022”**
~ 100 enrolled participants. 3 mini-courses, 2 invited lectures, contributed workshop.
- Jun 2021 **Microlocal and Time-Frequency Analysis – Virtual Days**
 ~ 70 participants, 11 international invited speakers.

Teaching activity

Ph.D. level

- 2024 **Scattering transforms: a tale of stability and scales**, *RWTH Aachen*
Invited minicourse — 3h.
- 2022 **A crash course on scattering networks**, *YAMC 2022*, *Arenzano*
Minicourse — 3h.
- 2022 **Harmonic analysis of scattering networks**, *Università degli Studi di Genova*
Lectures (taught in English) — 20h. Co-instructor: L. Ratti (10h).

Master level

- 2025/2026 **Real and functional analysis**, *Università degli Studi di Torino*
2023/2024 Exercise classes (taught in English) — 50h. Degree course in Stochastics and Data Science.
- 2017/2018 **Microlocal and time-frequency analysis**, *Università degli Studi di Torino*
Exercise classes — 20h. Degree course in Mathematics.

Bachelor level

- 2025/2026 **Metodi matematici per l'ingegneria**, *Politecnico di Torino*
Lectures and exercise classes — 20h. Degree course in Computer Engineering (year II).
- 2025/2026 **Analisi matematica I**, *Politecnico di Torino*
Lectures (>250 students) — 60h. Degree course in Engineering (year I).
- 2022–2025 **Istituzioni di matematiche**, *Politecnico di Torino*
Lectures and exercise classes (>150 students) — 50+30h. Degree course in Architecture (year I).
- 2020/2021 **Analisi matematica II**, *Politecnico di Torino*
 Exercise classes — 20+20h. Degree course in Biomedical Engineering (year II).
- 2019/2020 **Analisi matematica I**, *Politecnico di Torino*
2018/2019 Exercise classes (>250 students) — 60h. Degree course in Engineering (year I).
- 2016/2017 **Geometria e algebra lineare I**, *Università di Torino*
Exercise classes — 50h. Degree course in Physics (year I).

Professional teacher training

- 2025 **Learning to Teach (L2T)**, *TLLab*, *Politecnico di Torino*, 40h course
- 2017–2018 **PREFIT training program**, *CIFIS*, *Università degli Studi di Torino*, 24+6 CFU

Popularization activities

- 2024, 2025 **UNIGHT — Notte Europea delle Ricercatrici e dei Ricercatori**, *Torino*