

Curriculum Vitae DAMIANO POLETTI

PERSONAL INFORMATION

NAME: Damiano Poletti
GENDER: Male
PLACE AND DATE OF BIRTH: Genova (GE), Italy | 19 January 1995
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POSIZIONI

11/2023–10/2026 | RESEARCHER
Università degli studi di Genova

11/2021–10/2023 | RESEARCH FELLOW
Università degli studi di Genova

ISTRUZIONE

10/02/2022 | PH.D. IN MATHEMATICAL MODELS AND METHODS FOR ENGINEERING
Milano, Politecnico di Milano
cum laude

10/2018–09/2021 | PhD student

07/2018 | MASTER DEGREE IN MATHEMATICS
Università degli studi di Genova
110/110 cum laude

09/2016–07/2018 | Graduate student

07/2016 | DEGREE IN MATHEMATICS
Università degli studi di Genova
110/110 cum laude

09/2013–07/2016 | Undergraduate student

TEACHINGS

09/2024–03/2027 | Teacher of "Probabilità e Statistica" at Università di Genova

09/2023–03/2027 | Teacher of "Algebre di Operatori" at Università di Genova

09/2024–03/2026 | Teaching Assistant of "Analisi Stocastica" at Università di Genova

09/2022–03/2025 | Teacher of "Matematica Generale" at Università di Genova

03/2019–04/2023 | Teaching assistant of "Probabilità e statistica matematica" at Politecnico di Milano

03/2022–06/2022 | Calculus tutor at Università di Genova

03/2019–06/2020 | Probability tutor at Politecnico di Milano

PUBLICATIONS

F.Fagnola, D.Poletti, E.Sasso, Energy transfer in open quantum systems weakly coupled with two reservoirs. *CUBO, a mathematical journal* 23 (1), 2021. doi:10.4067/S0719-06462021000100121

J.Agreto, F.Fagnola, D.Poletti, Gaussian Quantum Markov Semigroups on a One-Mode Fock Space: Irreducibility and Normal Invariant States. *Open Systems & Information Dynamics*, 28 (1), 2021. doi:10.1142/S1230161221500013

D.Poletti, Characterization of Gaussian Quantum Markov Semigroups. *Infinite Dimensional Analysis, Quantum Probability and Related Topics* 25 (3), 2022. doi:10.1142/S021902572250014X

F.Fagnola, D.Poletti, On Irreducibility of Gaussian Quantum Markov Semigroups. *Infinite Dimensional Analysis, Quantum Probability and Related Topics* 25 (4), 2022. doi:10.1142/S021902572240001X

J.Agreto, F.Fagnola, D.Poletti, The Kossakowski Matrix and Strict Positivity of Markovian Quantum Dynamics. *Open Systems & Information Dynamics*, 29 (2), 2022. doi:10.1142/S1230161222500056

J.Agreto, F.Fagnola, D.Poletti, The Decoherence-Free Subalgebra of Gaussian Quantum Markov Semigroups. *Milan Journal of Mathematics* 90, 2022. doi:10.1007/s00032-022-00355-0

F.Fagnola, D.Poletti, A note on invariant states of Gaussian quantum Markov semigroups. *Infinite Dimensional Analysis, Quantum Probability and Related Topics* 2024. doi:10.1142/S0219025724400046

A.Dhahri, F.Fagnola, H.L.Yoo, Environment induced entanglement in Gaussian open quantum systems. *preprint* 2024. doi:10.48550/arXiv.2407.14050

F.Fagnola, D.Poletti, E.Sasso, V.Umanità, The Spectral Gap of a Gaussian Quantum Markovian Generator. *preprint* 2024. doi:10.48550/arXiv.2405.04947

COMMUNICATIONS AT INTERNATIONAL CONFERENCES

“Gaussian Quantum Markov Semigroups on a One-mode Fock Space: Irreducibility and Normal Invariant States”. *One-Parameter Semigroups of Operators*, 2021.

“The Decoherence-free subalgebra of Gaussian Quantum Markov Semigroups”. *New Trends in Mathematical Physics*, Russia (Online conference), 2022.

“Ornstein-Uhlenbeck semigroup and Gaussian Quantum Markov Semigroups”. *UMI national meeting*, Pisa (Italy), 2023.

“Gaussian Quantum Markov Semigroups”. *The 44th International Conference & School on Quantum Probability and Infinite Dimensional Analysis in memory of K.R. Parthasarathy*, Trento (Italy), 2024

“Gaussian Quantum Markov Semigroups”. *INdAM Meeting Quantum Optimal Transport and Applications*, Cortona (Italy), 2024

“GNS symmetry of a gaussian Quantum Markov Semigroup”. *Quantum Markov Semigroups and Channels: Special Classes and Applications*, Oaxaca (Mexico), 2024

SEMINARS

“Characterization of Attraction Domains for Generic Quantum Semigroups”. *Politecnico di Milano*, 2018.

“What is Quantum Probability”. *Politecnico di Milano*, 2020.

“Gaussian States and Gaussian Quantum Markov Semigroups”. *Università di Genova*, 2021.

“Gaussian Quantum Markov Semigroups: a characterization and the study of the one-dimensional case”. *Workshop in Quantum Probability and Quantum Markov Semigroups*, Bari (Italy), 2021.

“An invitation to Gaussian Quantum Markov Semigroups”. *Workshop in Infinite Dimensional Quantum Markov Semigroups*, Tubingen (Germany), 2023.

“An introduction to quantum gaussian states”. *Quantum Markov Semigroups and Channels: Special Classes and Applications*, Oaxaca (Messico) 2024.

“GNS symmetry of a gaussian Quantum Markov Semigroup”. *Quantum Probability and Applications*, Bari (Italy), 2024