

Daniele Iannotti

Curriculum Vitae

✉ d.iannotti@ssmeridionale.it

Personal data

Name and Surname **Daniele Iannotti**
Place and year of birth **Italy, 1998**

Education

2023 – Present **PhD**, *Theoretical Physics*, SSM (*Scuola Superiore Meridionale*), Napoli, Italy
2020 – 2022 **Master Degree**, *Theoretical Physics*, Università degli Studi di Trieste, Italy
2017 – 2020 **Bachelor Degree**, *Physics*, Università degli Studi di Roma "La Sapienza", Italy
2012 – 2017 **Diploma**, Liceo Statale Scientifico Ettore Majorana, Latina, Italy

Experiences

2025- Present **Founding Member**, *qmeets*, Online talks on recent breakthroughs in quantum physics for a broad audience
2024- Present **Academic Tutor**, *Bachelor and Master students' tutor for advanced courses in physics and mathematics*, Scuola Superiore Meridionale, Naples, Italy
2025- 2026 **Group meetings coordinator**, for the *QUANTUM SPACETIME* and *QUANTUM INFORMATION*, Università degli studi Federico II
2024 - Present **Scientific Reviewer** for The European Physical Journal Plus, Annals of Physics, PRA, PRX Quantum
2024 - Present **Quantum Student Contributor** for Physics World Journal
2023 **Postgraduate student**, Neuroscience, SISSA, Trieste, Italy
2022 - 2023 **High school teacher**, Mathematics, Physics, IT
2019- 2022 **Maths and Physics tutor**, Università degli Studi di Trieste and Università degli Studi di Roma "La Sapienza"

Conferences, workshops and schools

Oct 2026 **Workshop on Many-Body Quantum Magic**, Fondazione Bruno Kessler, Italy
05/10/2026-16/10/2026
Sept 2026 **Quantum Roundabout**, University of Nottingham, UK, (*Talk*: Nonlocal magic resources of fermionic Gaussian states)
09/09/2026-11/09/2026
Aug 2026 **2nd Workshop on random quantum circuits**, University of Cologne, Germany
17/08/2026-21/08/2026
Apr 2026 **International conference Entangled States of Matter**, University of Cologne, Germany
26/05/2026-28/05/2026
Apr 2026 **ICTP-IBM School on Quantum Computing and Simulation**, ICTP, Trieste, Italy,
(*Poster*: Non-stabilizerness and symmetries in chaotic many-body quantum systems)
20/04/2026-30/04/2026

- Dec 2025 **Zappatore – Recent Development in Theoretical Physics and its Neighbourhoods 7th edition**, Dipartimento di Fisica “Ettore Pancini” Università di Napoli Federico II, Italy, (*Talk*: Non-stabilizerness and symmetries in chaotic many-body quantum systems)
19-22/12/2024
- Nov 2025 **Quantum Highlights for Young Researchers**, NQSTI and CNR, Pozzuoli, Italy, (*Talk*: Haar measure and non-stabilizerness)
28/11/2025
- September 2025 **IQIS 2025**, Università degli studi di Bologna, Italy, (*Poster*: Entanglement and Stabilizer entropies of random bipartite pure quantum states)
08-12/09/2025
- Aug 2025 **Exact Solvability and Quantum Information**, Les Houches Summer School, France
04-29/08/2025
- Jun 2025 **Organizing Committee, Stupor Quanti II: The Wonders of Quantum Mechanics**, University of Naples “Federico II” and NQSTI, Italy
10/06/2025
- Apr 2025 **QCTIP 2025 - Quantum Computing Theory in Practice**, Physics department of Freie Universität Berlin, Germany, (*Poster*: Entanglement and Stabilizer entropies of random bipartite pure quantum states)
23-25/04/2025
- Feb 2025 **SFT 2025 - Lectures on Statistical Field Theories**, Galileo Galilei Institute, Florence, Italy
03-14/02/2025
- Dec 2024 **Zappatore – Recent Development in Theoretical Physics and its Neighbourhoods 6th edition**, Dipartimento di Fisica “Ettore Pancini” Università di Napoli Federico II, Italy, (*Talk*: Interplay between entanglement and non-stabilizerness)
16/12/2024
- Nov 2024 **First workshop on Many-body quantum magic (MBQM2024)**, Technology Innovation Institute (TII), Abu Dhabi, United Arab Emirates, (*Poster*: Non-local magic beyond many-body systems)
18/11/2024 - 20/11/2024
- Sept 2024 **Conference TFI 2024: Theories of the Fundamental Interactions**, Università di Napoli Federico II
23/09/2024 - 25/09/2024
- Sept 2024 **Conference SuperFluctuations 2024**, Università di Salerno, Italy, (*Poster*: Quantum resource variational principle)
16/09/2024 - 18/09/2024
- Mar 2024 **Conference PAFT24 - Quantum Gravity and Information**, Lloyd’s Baia Hotel Vietri sul Mare, Salerno, Italy
24/03/2024 - 27/03/2024
- Feb 2024 **VI International Workshop on Information Geometry, Quantum Mechanics and Applications**, Universidad Carlos III de Madrid in Leganés, Spain, (*Talk*: Geometry of Quantum Resources)
20/02/2024 - 22/02/2024
- Feb 2024 **TPI school on QFT and holography: entanglement and symmetries**, Theoretisch-Physikalisches Institut FSU Jena, Germany, (*Talk*: Geometry of quantum resources)
12/02/2024 - 16/02/2024

Visiting

- April 2026 **Visiting University of Jena, Germany**, Martin Gärttner's group, (*Talk*: Why you should care about magic: randomness, symmetries, locality and beyond)
07/04/2026 - 10/04/2026
- Feb-Sept 2026 **Visiting University of Cologne, Germany**, Xhek Trukeshi's research group
(*Talk*: Magic and Randomness: Abelian symmetries in chaotic many-body quantum systems)
- Sept 2024 **Visiting ICTP, Italy**, Collaboration with Marcello Dalmonte's group
09/04/2024 - 13/04/2024
- Jun 2024 **Visiting Università degli studi di Modena e Reggio Emilia, Italy**, Collaboration with Paolo Zanardi's group
27/06/2024 - 29/06/2024

Preprints and Publications

- 2026 Jasser, B., Iannotti, D., Hamma, A. (2026). A journey through Flatland: What does the antifatness of a spectrum teach us?, <https://doi.org/10.48550/arXiv.2605.21664>
- 2026 Iannotti, D., Magni, B., Cioli, R., Hamma, A., Turkeshi, X. (2026). Non-local Magic Resources of Fermionic Gaussian Systems, <https://doi.org/10.48550/arXiv.2604.27049>
- 2026 Iannotti, D., Russotto, A., Jasser, B., Odavic, J., Hamma, A. (2026). Non-stabilizerness and U(1) symmetry in chaotic many-body quantum systems, arxiv 2603.28870, <https://arxiv.org/abs/2603.28870>
- 2026 Iannotti, D., Campos Venuti, L., Hamma, A. (2026). Van Hove singularities in stabilizer entropy densities. Journal of Physics A: Mathematical and Theoretical, 59(7), 075301, <https://doi.org/10.1088/1751-8121/ae3cd6>
- 2025 Cusumano, S., Campos Venuti, L., Cepollaro, S., Esposito, G., Iannotti, D., Jasser, B., Odavic, J., Viscardi, M., Hamma, A., Non-stabilizerness and violations of CHSH inequalities, <https://doi.org/10.48550/arXiv.2504.03351>
- 2025 Iannotti, D., Gianluca, E., Campos Venuti, L., Alioscia, H., Entanglement and Stabilizer entropies of random bipartite pure quantum states. Quantum 9 (2025) 1797, <https://doi.org/10.22331/q-2025-07-21-1797>
- 2024 Iannotti, D., Hamma, A. Geometric methods in quantum information and entanglement variational principle. International Journal of Geometric Methods in Modern Physics Vol. 21, No. 10, 2440010, <https://doi.org/10.1142/S0219887824400103>
- 2024 Iannotti, D., Pittelli, A. Twisted index on hyperbolic four-manifolds. Lett Math Phys 114, 39. <https://doi.org/10.1007/s11005-024-01788-x>
- 2022 Iannotti, D., Coslovich, D. Open source alternatives for symbolic analysis and their applications in general relativity. <https://doi.org/10.5281/zenodo.6757449>

Awards, Honours and Grants

- 2026 **Research Grant** for Young Researcher and Innovator by COST Action CA23130
- 2026 **Research Grant** in Germany by DAAD
- 2026 **Research Grant** for Short visiting period by COST Action CA22113
- 2025 **Honours** Young ISSNAF Mentoring Program
- 2020 – 2022 **Scholarship** awarded by ARDISS
- 2020 **Award** "Premio di Laurea" by LazioDisco
- 2017–2020 **Scholarship** awarded by LazioDisco

Outreach activities

- 2025-2026 Penne Amiche della Scienza: Italian project similar to *Letters to a Pre-Scientist*
- 2024-2025 European Researchers' Night in Naples: theatrical dialogue about quantum information
- Apr 2024 Parla Potabile: quantum games and outreach
- Apr 2024 Ludoteca quantistica and Quantum treks: quantum games and outreach
- Sept 2022 Trieste Next: stand about physics and literature
- 2019-Present Outreach activities and lectures at Liceo Scientifico E. Majorana, Latina, Italy

Languages

Italian **Mother tongue**, English **C1**, French **B1**