Gianpaolo Torre

Education

2013–2016	Ph.D., Physics, University of Salerno
	Thesis Title: Non-markovian quantum dynamics
	Supervisors: Prof. Fabrizio Illuminati
2012	M.Sc., Physics, University of Salerno
2007	B.Sc., Physics, University of Salerno

Academic Appointments

2018–2019	Postdoctoral Fellow, Department of Industrial Engineer, University of Salerno
2017–2018	Postdoctoral Fellow, Department of Industrial Engineer, University of Salerno
2016–2017	Postdoctoral Fellow, Department of Industrial Engineer, University of Salerno

Teaching Assistant

2019 – 2020	General Physics 1, Dept. of Industrial Engineer	University of Salerno
2017 – 2018	General Physics 2, Dept. of Industrial Engineer	University of Salerno
2017 – 2018	General Physics 1, Dept. of Industrial Engineer	University of Salerno
2016 – 2017	General Physics 2, Dept. of Industrial Engineer	University of Salerno
2016 – 2017	General Physics 1, Dept. of Industrial Engineer	University of Salerno
2016 – 2017	General Physics 1, Dept. of Civil Engineer	University of Salerno

Publications

[1] A. Marino, **G. Torre**, and R. Citro. Dynamical localization of interacting ultracold atomic kicked rotors. *EPL (Europhysics Letters)*, 127(5):50008, 2019. doi:10.1209/0295-5075/127/50008

[2] **Torre, G**. and F. Illuminati. Exact non-markovian dynamics of gaussian quantum channels: Finite-time and asymptotic regimes. *Phys. Rev. A*, 98:012124, Jul 2018. doi:10.1103/PhysRevA.98.012124

[3] G. **Torre**, W. Roga, and F. Illuminati. Non-markovianity of gaussian channels. *Phys. Rev. Lett.*, 115:070401, Aug 2015. doi:10.1103/PhysRevLett.115.070401

[4] Blasone, M., Dell'Anno, F., De Luca, R., and **Torre, G**. Mathematical model of an off-grid hybrid solar and wind power generating system. *EPJ Web of Conferences*, 79:01008, 2014. doi:10.1051/epjconf/20137901008

[5] **G. Torre** and R. De Luca. Persistent currents and magnetic susceptibility of two-junction quantum interferometers. *Results in Physics*, 3:179 – 181, 2013. doi:https://doi.org/10.1016/j.rinp.2013.09.004

[6] M Blasone, F Dell'Anno, R De Luca, and **G Torre**. A simple mathematical description of an off-grid hybrid solar–wind power generating system. *European Journal of Physics*, 34(3):763–771, apr 2013. doi:10.1088/0143-0807/34/3/763

Preprints

[1] **Gianpaolo Torre** and Fabrizio Illuminati. Non-markovianity-assisted optimal continuous variable quantum teleportation, 2018. arXiv:1805.03617

[2] Daniela Buono, Gaetano Nocerino, Giuseppe Petrillo, **Gianpaolo Torre**, Giuseppe Zonzo, and Fabrizio Illuminati. Quantum coherence of gaussian states, 2016. arXiv:1609.00913

Conferences

[1] **Torre G.**. Non-Markovianity of Gaussian channels. INFN Quantum Meeting, 22 – 24 March, 2016, Abdus Salam International Center for Theoretical Physics, Trieste, Italy

[2] Quantum gases and quantum coherence, BEC 2016, 31 August–3 September 2016, Salerno, Local Committee.

[3] IQIS 2014 – 7th Italian Quantum Information Science Conference, 15-19 September 2015, Salerno (Italy), Local committee.

Schools

[1] Advanced school and workshop on quantum science and quantum technologies, 04 – 15 September, 2017, Abdus Salam International Center for Theoretical Physics, Trieste, Italy.

[2] Summer School on Collective Behaviour in Quantum Matter, 27 August – 14 September, 2018, Abdus Salam International Center for Theoretical Physics, Trieste, Italy.

Professional Activities

- Internship on "Semantic core technologies", MOMA S.P.A., April – June 2016, Baronissi (SA), Italy.

Professional development

- Graduate School Lecture: Entanglement in Many-Body Systems: from Concepts to Algorithms, Prof. Matteo Rizzi, University of Salerno, October 2019.

- "Python 3 programming, a 5-course specialization by University of Michigan on Coursera. Specialization Certificate earned on June 1, 2019" (certificate).

Competence and skill

- **Programming languages**: Fortran, C, C++, Java, C#, Python, Julia, Mathematica, MATLAB.

- **Languages**: Italian (mother tongue), English (read, written and spoken: intermediate).

References

- Dr. **Antonio Capolupo**, Dipartimento di Fisica "E.R.Caianiello", University of Salerno, Italy, e-mail: acapolupo@unisa.it