

Nahid Yazdi

Curriculum Vitae



Education

- 2015–2024 **Ph.D.**, *Condensed Matter Physics*, Isfahan University of Technology (IUT), Isfahan-Iran.
(Two years waived) | GPA–**18.95/20**
- **Thesis Title:** Generation of Entangled Network of Bosonic Modes Mediated by Two Level Systems
- 2010–2013 **M.Sc.**, *Elementary Particles Physics*, Ferdowsi University of Mashhad (FUM), Mashhad-Iran.
| GPA–**17.88/20**
- **Thesis Title:** Entanglement Sudden Death of Two–Qubit Systems in Markovian and Non-Markovian Environment
- 2006–2010 **B.Sc.**, *Theoretical Physics*, Tabriz University (TU), Tabriz-Iran.
| GPA–**18.25/20**

Research Interest

- Quantum Information and Theory of Entanglement
- Quantum Optics
- Foundations of Quantum Theory
- Statistical Physics and Quantum Thermodynamics
- Quantum Optomechanics

Honours & Awards

- **Ranked 1st** among all graduate students, Physics Department, FUM,Iran, 2010-2013.
- Being exempted from M.Sc entrance exam as an **"Exceptionally Talented student"**, TU, Iran 2010.
- **Ranked 18th** (i.e. top 1 percent) among around 6000 participants in Iranian undergraduate nationwide entrance M.Sc. exam, 2010.



- **Ranked 1st** among all undergraduate students, Physics Department, TU, Iran, 2006-2010.
- **Ranked 15th** among all students in scientific competitions of Khorasan Razavi province, Nemone Iman High School, Kashmar, Iran, 2002
- **Ranked 6th** among all students in physics competitions in Khorasan Razavi province, Nemone Iman High School, Kashmar, Iran, 2003

Publications

- 2023 **Nahid Yazdi, Vahid Salari, and Roohollah Ghobadi**, "*Spin-induced multipartite steady-state entanglement of motional modes in hexagonal boron nitride membranes*", Phys. Rev. A 107, 012610.
- 2023 **Nahid Yazdi, Juan Jos e Garc a-Ripoll, Diego Porras, and Carlos Navarrete-Benlloch**, "*Cooling microwave fields into general multimode Gaussian states*", New Journal of Physics 25 (8), 083052.
- 2024 **Nahid Yazdi, Stefano Zippilli, David Vitali**, "*Generation of stable Gaussian cluster states in optomechanical systems with multifrequency drives*", Quantum Science and Technology.

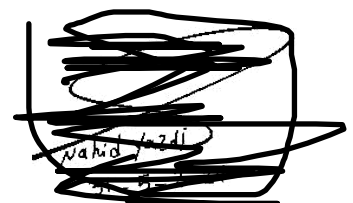
Scientific Careers

- **University of Camerino, Camerino (MC), Italy** Visiting Researcher, Hosted by Professor David Vitali, School of Science and Technology, Physics Division
- **Shanghai Jiao Tong University, China**, Researcher, Hosted by Dr. Carlos Navarrete-Benlloch, Wilczek Quantum Center.

Conference Participation

- Jan 2024 **School of Quantum Technologies**, Isfahan University Of Technology, Isfahan-Iran.
- Sep 2019 **First National Conference On Emerging Technologies In Quantum Optics**, Isfahan University Of Technology, Isfahan-Iran.
- May 2019 **The Important Role of Foundational Physics in the Future Evolution of Science**, Azarbaijan Sharhid Madani University, Tabriz-Iran.
- Sept 2018 **International Iran Conference On Quantum Information**, Sharif University of Technology, Tehran-Iran.
- Dec 2017 **The Important Role of Foundational Physics in the Future Evolution of Science**, IPM, Tehran-Iran.
- Sept 2012 **International Iran Conference On Quantum Information**, Sharif University of Technology, Tehran-Iran.

Teaching & Research Experiences



Nahid Yazdi

- 2018-2019 **Research Assistant**, *Master's Thesis*, Isfahan University of Technology, Isfahan-Iran.
- 2017-2019 **Teaching Assistant**, *Quantum Optics, Classical mechanics 1,2,3*, Isfahan University of Technology, Isfahan-Iran.
- 2013-2017 **Teaching**, *Math and Physics for talent high School Students*.
- 2010-2013 **Teaching Assistant**, *Advanced Quantum mechanics, Quantum mechanics 1,2, Classical mechanics 1, Electromagnetism 1, Basic physics 1,2*, Ferdowsi University of Mashhad, Mashhad-Iran.

Workshops & Online Courses

- Jul-Sep 2020 **Quantum Optics I, II** , *Instructor(s): Prof. Alain Aspect and Michel Brune*.
- Jul-Sep 2020 **Atomic and Optical Physics I, II** , *Instructor(s): Prof. Wolfgang Ketterle*.
- Sep 2019 **Trainer Assistant of Qutip Workshop**, *First National Conference On Emerging Technologies In Quantum Optics* , Isfahan University Of Technology , Isfahan-Iran.

Talks & Presentation

- 2018 **Quantum Optomechanics and Its applications**, *Isfahan University Of Technology* , Isfahan- Iran.
- 2017 **Dynamics of Sand Dunes in Complex systems** , *Isfahan University Of Technology* , Isfahan- Iran.
- 2011 **Stochastic Variables** , *Ferdowsi University of Mashhad*, Mashhad- Iran.
- 2007 **Thermodynamics and the Universe** , *Tabriz University*, Tabriz- Iran.
- 2006 **Analytical physics and Euler angles**, *Tabriz University*, Tabriz- Iran.

Computer Skills

- Python, Mathematica, Maple
- L^AT_EX, Adobe Illustrator, MS Office

languages

- Persian: Native
- English: Fluent
- German: Familiar
- Arabic: Familiar

Hobbies

- ~~Calligraphy~~
- ~~Solving math problem!~~
- ~~Reading books in the subjects of Literature, Science, Listening to Iranian Traditional music~~



31-5-2024

- ~~Cooking~~
- ~~Sports (Mountain Climbing Badminton)~~

References

Dr. Vahid Salari

*Research Associate, Adjunct Assistant Professor,
Institute of Quantum Science and Technology
University of Calgary, Calgary, Canada.
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Dr. Carlos Navarrete-Benlloch

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Shanghai Jiao Tong University, Shanghai,
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Prof. David Vitali

*Full Professor, School of Science and Technol-
ogy, Physics Division
Camerino University, Camerino, Italy.
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Dr. Stefano Zippilli

*Senior Post Doctoral Researcher, School of Sci-
ence and Technology, Physics Division
Camerino University, Camerino, Italy.
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