
Franco Nori



Membership Number: 6484
Membership type: FOREIGN
Section: PHYSICS & ENGINEERING SCIENCES
Elected: 2023
Main Country of Residence: JAPAN
Homepage(s): <https://dml.riken.jp/pub/>
<https://scholar.google.com/citations?hl=en&user=SRUYLREAAAAJ>
<https://www.webofscience.com/wos/author/record/B-1222-2009>
<https://www.scopus.com/authid/detail.uri?authorId=7005721141>
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Present and Previous Positions

- 2020 - present Concurrent position as Team Leader for the Quantum Information Physics Theory Research Team, Quantum Computing Center, RIKEN, Saitama, Japan
- 2013 - present Chief Scientist, Theoretical Quantum Physics Laboratory, Cluster for Pioneering Research, RIKEN, Japan
- 2013 - 2017 concurrent positions as: Group Director of the Quantum Condensed Matter Research Group, CEMS, and also Team Leader at iTHES (Interdisciplinary Theoretical Sciences). All at RIKEN, Saitama, Japan
- 2002 - 2012 Team Leader, Frontier Research System and, afterwards, Advanced Science Institute, RIKEN, Japan
- 1990 - present Assistant Professor, Associate Professor, Full Professor and Research Scientist, Department of Physics, University of Michigan, Ann Arbor, USA
- 1987 - 1989 Postdoctoral Research Fellow, Institute for Theoretical Physics, University of California, Santa Barbara, USA
- 1982 - 1987 Conicit Fellow and Graduate Research Assistant; Physics Department. Also at the Materials Research Laboratory; University of Illinois, USA

Fields of Scholarship

- Condensed matter physics

- Light-matter interactions
- Quantum open systems
- Superconducting qubits
- Optomechanics
- Quantum optics
- Photonics
- Quantum open software
- Complex systems
- Quantum information
- Cavity QED (Quantum Electro-Dynamics)

Honours and Awards

- [2024 Charles Hard Townes Medal](#) (only recipient), by Optica (formerly the Optical Society of America, OSA). This honor is for his many fundamental contributions to quantum optics, quantum information processing, and quantum circuits
- 2024 Research Doctorate Honoris Causa (i.e., an Honorary Doctorate) in Physics, from the University of Messina, Italy, established in 1548
- 2017 through 2024: Listed as a “Highly Cited Researcher”, based on the Web of Science data. This for eight consecutive years. Because his research group produced many highly cited publications (top 1% cited publications among all papers in all areas of physics). Less than 0.1% of researchers in physics are listed
- 2024 A Scholarly Analytics Firm (ScholarGPS) has listed his lifetime work in the top 0.05% of 30 million scholars worldwide in all fields of scholarly endeavor
- 2024 Only recipient of the 2024 Charles Hard Townes Medal, by Optica (formerly the Optical Society of America, OSA). This honor is for his many fundamental contributions to quantum optics, quantum information processing, and quantum circuits
- 2024 Gave the Stanislaw Ulam Lecture, at Adam Mickiewicz University, Poznan, Poland
- 2024 Gave the annual Sir Nevill Mott Lecture, at Loughborough University, UK
- 2024 Received a Research Doctorate Honoris Causa (i.e., an Honorary Doctorate) in Physics, from the University of Messina, Italy, established in 1548
- 2023 Elected Member of the Academia Europaea
- 2023 Willis E. Lamb Medal, for his research on quantum electronics, quantum optics, and quantum information
- 2017 Elected Member of the Latin American Academy of Sciences
- 2016 Elected Foreign Member of the Swedish Royal Society of Arts and Sciences, in Gothenburg, Sweden
- 2014 Elected Fellow of the Optical Society of America (OSA) “for fundamental contributions to quantum information science and optics, including circuit quantum electrodynamics, and the interface between quantum optics and quantum circuits”
- 2014 Prize for Research in Physics, Matsuo Foundation, Japan. For research on: “Atomic physics and quantum optics using superconducting quantum circuits.” (20,000 USD cash prize)
- 2013 Prize for Science: the Commendation for Science and Technology, by the Minister of Education, Culture, Sports, Science and Technology, Japan. Very few non-Japanese have ever received this Prize
- 2011 Physics World Magazine Top-5 Breakthrough of the year. Also, named #1 reader's choice for 2001 in “Nature News” Prominently featured by the press worldwide
- 2007 Elected Fellow of the American Association for the Advancement of Science (AAAS), USA
- 2003 Elected Fellow of the Institute of Physics (IoP), UK
- 2002 Elected Fellow of the American Physical Society (APS): “for innovative theoretical contributions to the study of vortex dynamics, dynamical instabilities, Josephson junction arrays and quantum interference”
- 1998 "Excellence in Research Award" from the University of Michigan, USA
- 1997 "Excellence in Education Award" from the University of Michigan, USA
- 1982 - 1987 Conicit Fellowship at the University of Illinois at Urbana-Champaign, USA