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Franco Nori

Membership Number: 6484
 Membership type: FOREIGN
 Section: [PHYSICS & ENGINEERING SCIENCES](#)
 Elected: 2023
 Main Country of Residence: JAPAN
 Homepage(s): <http://dml.riken.jp/pub/>
 ORCID: [0000-0003-3682-7432](http://orcid.org/0000-0003-3682-7432)

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

- Complex systems
- Quantum information
- Superconducting qubits
- Quantum open software
- Optomechanics
- Quantum open systems
- Condensed matter physics
- Light-matter interactions
- Photonics
- Quantum optics
- Cavity QED

Honours and Awards

- 2023 Willis E. Lamb Medal, for research on quantum electronics, quantum optics, and quantum information
- 2022 Listed as a “Highly Cited Researcher”, based on the Web of Science data. This because, during the last decade, 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
- 2017 - 2021 Listed as a “Highly Cited Researcher”
- 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

