

Franco Nori



Education

1987: Ph.D. in Physics, Univ. of Illinois at Urbana-Champaign, USA.

1983: M.S. in Physics, Univ. of Illinois at Urbana-Champaign, USA.

1982: Licenciado (i.e., B.S.) in Physics, Cum Laude, Univ. Simon Bolivar, Venezuela. Highest GPA among all graduating students at the entire University.

Professional Positions

- 2013— present: Chief Scientist. Also (during 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 Advanced Science Institute, RIKEN, Saitama, Japan.
- 1990— present: Assistant Professor, Associate Professor, Full Professor and Research Scientist; Dept. of Physics, University of Michigan, Ann Arbor, USA.
- 1987—89: Postdoctoral Research Fellow, Institute for Theoretical Physics, University of California, Santa Barbara.
- 1982—87: Conicit Fellow and Graduate Research Assistant; Physics Department. Also at the Materials Research Laboratory; University of Illinois.

Selected Distinctions, Awards, and Honors

- 2018: Listed as a *“Highly Cited Researcher”*, based on the Web of Science data. The only non-Japanese working in Japan in the Physics category (8 in total for all of Japan in 2018, and 11 for 2017). This because, during the last decade, his research group produced many (~ 34) highly cited publications (top 1% cited papers among all papers in all areas of physics).
- 2017: Listed as a *“Highly Cited Researcher”*, based on the Web of Science data. The only non-Japanese working in Japan in the Physics category.
- 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.”
- 2013: (Sept.) Korea University Distinguished Visiting Professorship.
- 2013: Prize for Science: the Commendation for Science and Technology, by the Minister of Education, Culture, Sports, Science and Technology, Japan.
- 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.
- 1997: "Excellence in Education Award" from the University of Michigan.

Additional distinctions:

- 2018 (Publons) Peer Review Award: Top 1% in the Field of Physics. Listed #5 in the world.
- 2018 (Publons) Peer Review Award: Top 1% in the Field “Interdisciplinary”.
“The top 1% of reviewers in each field who performed the most verified pre-publication peer reviews on Publons for the 2018 global Peer Review Awards”.
- 2017: Institute of Physics Outstanding Reviewer Award.
- 2017 and 2016: Selected as a Nature top reviewer in 2016 and 2017 because his “continued involvement in the review process is exceptional”, according to the Editor-in-Chief of Nature and Nature Publications.
- 2016-: Member of the Board of QuSTaR, a non-profit organization dedicated to furthering research in the quantum sciences through open-source tools, educational resources, and workshops.

- 2016-: Advisory Board Member, npj Quantum Information, Nature Partner Journal.
- 2014-2015-2016: Recognition to peer-quality reviewing, from the Optical Society of America.
- 2015: Outstanding Reviewer: Physics Letters A.
- 2014: Elected member of FQXi, the Foundational Questions Institute. Received venture capital funds from a Silicon Valley Foundation to support research visitors in our group.
- 2015: Annals of Physics “Most Valued Reviewers” of 2015.
- 2014: Annals of Physics “Most Valued Reviewers” of 2014.
- 2014—present: only member for the area of “Quantum Physics” of the Editorial Advisory Panel of Nature’s Scientific Reports.
- 2014: Selected as outstanding referee (top 5%) of the New Journal of Physics.
- 2014: EPL Distinguished Referee.
- 2013: EPL Distinguished Referee.
- 2011: Elected as Outstanding Referee of the American Physical Society (APS).
- 2011: (\$5K) Croucher Foundation Advanced Study Institute Lecturer, Hong Kong.
- 2000: US National Academy of Sciences Frontiers of Science Symposium (only three speakers from Physics, all under 45 years old).
- 1992: General Electric Junior Faculty Fellow at the University of Michigan.
- 1992: Conicit Fellow at the University of Illinois
- 1982: Highest GPA among all graduating students at the USB (undergraduate school).

Areas of Active Research: Interdisciplinary research at the interface between condensed matter physics, quantum information, classical optics, quantum optics, atomic physics, mesoscopics, and nano-science.

Invited Talks, Colloquia, Seminars: Over 300 (invited talks at international conferences; also seminars and colloquia at Universities, and Industrial or National Laboratories).

Publications in Refereed Journals: Are available online here:
<http://dml.riken.jp/pub/http://www.researcherid.com/rid/B-1222-2009>

<http://scholar.google.com/citations?user=SRUYLREAAA&hl=en>

**ISI Web of Science: > 30K citations and h-index 84.
Average Citations per Article ~ 50**

**Google Scholar: ~ 42K citations and h-index 95
(since 2012: ~ 27K citations and h-index 72)**
2015: ~ 4K citations
2016: ~ 5K “
2017: ~ 6K “
2018: ~ 7K “ (based on the current rate)

Over 98 publications in *Physical Review Letters*.

Over 300 publications in *Physical Review (A, B, E, X)*, including over 125 in PRA, over 160 in PRB, over 20 in PRE, and 2 in PRX;

Over 44 publications in *Science* and *Nature* journals (including several in press now); 5 in *Reviews of Modern Physics*; 10 in *Physics Reports*; 3 in *Reports on Progress in Physics*;

Over 20 in *New J. Phys.*, 11 in *Europhysics Letters*. Over 30 in *Physica A/B/C/E*, 5 in *J. Appl. Phys.*, 2 in *Appl. Phys. Lett.* and one in each of the following journals: *Physics Today*, *Scientific American*, *Advances in Physics*, among many others.

In the past decade, Dr. Nori's group has published over **34 papers ranked in the top 1% cited papers in all areas of Physics**. This is based on the Web of Science data. Some of these papers are in the top 0.1% and 0.01% most cited papers in physics.

Dr. Nori was ranked third in the world (out of a total of 12,269 authors) in the Thompson Reuters Science-Watch census of authors in terms of contributions to quantum computing over the decade 2001-2010 (sciencewatch.com).

His 5-year-index is 33, over refereed papers from 2010-2014 (50 on Google Scholar). These numbers are extremely high, for a single author, as can be seen by direct comparison with the total 2010-2014 journal article output of the major international physics collaborations: Belle (~400 authors) $h=19$; Ligo (~800 authors) $h=23$; and Atlas (~3,000 authors) $h=40$.