CURRICULUM VITÆ
ANDREA IORIO

CONTACT INFORMATION

Date of birth	02/09/1994
Sex	Male
Citizenship	Italian
E-mail	andrea.iorio@sns.it
Address	Room 1.1, NEST laboratory, Scuola Normale Superiore, Piazza San Silvestro 12, 56127 Pisa - Italy
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EDUCATION

2018 - present — **Scuola Normale Superiore** - PhD student in the superconducting group SQEL at NEST laboratory

- Supervisors: *Dr. F. Giazotto, Dr. E. Strambini*

2016 - 2018 — **University of Pisa** - Master's degree in *Condensed Matter Physics* (110/110 cum laude)

- Thesis title: *Spin-orbit interaction in suspended InAs nanowires*
  Supervisors: *Dr. E. Strambini, Dr. F. Giazotto, Prof. S. Roddaro*

2013 - 2016 — **University of Pisa** - Bachelor's degree in *Physics* (110/110 cum laude)

- Thesis title: *The Casimir effect*
  Supervisor: *Prof. M. D'Elia*

2008 - 2013 — **Liceo Scientifico "G. Rummo"** - High school diploma (100/100 cum laude)

FIELDS OF INTEREST

Superconducting qubits, circuit QED, hybrid superconducting devices, coherent caloritronics, superconductor spintronics.

LIST OF PUBLICATIONS

- **Investigation of InAs-based devices for topological applications**

  M. Carrega, S. Guiducci, **A. Iorio**, L. Bours, E. Strambini, G. Biasiol, M. Rocci, V. Zannier, L. Sorba, F. Beltram, S. Roddaro, F. Giazotto, S. Heun

  Spintronics XII, 2019 **11090**, 110903Z

  DOI: 10.1117/12.2527754

- **Vectorial Control of the Spin-Orbit Interaction in Suspended InAs Nanowires**

  A. Iorio, M. Rocci, L. Bours, M. Carrega, V. Zannier, L. Sorba, S. Roddaro, F. Giazotto, and E. Strambini

  Nano Letters, 2019 **19 (2)**, 652-657

  DOI: 10.1021/acs.nanolett.8b02828

INTERNATIONAL SCHOOLS

Jul-Aug 2019	NanoQI, Nanotechnology meets Quantum Information, Donostia-San Sebastian, Spain.
Jul-Aug 2017	KAUST Photonics Summer Camp, KAUST, Saudi Arabia.

SKILLS

Research	Experience with closed cycle ^{3}He-^{4}He dilution refrigerator and low-noise transport measurements in combination with superconducting magnets. Currently working on the implementation of a low-temperature RF setup in the GHz regime.
Programming	• Data analysis in Python (matplotlib, numpy, scipy), C and Mathematica. • Experience with instrument interfacing (LabVIEW, PyVisa) and low-level programming (GPIB). • Web programming: HTML5, PHP, CSS3, jQuery, MySQL • Other: LaTeX

LANGUAGES

Italian	mothertongue
English	fluent (GESE grade 10/12, equivalent to C1 for speaking and listening)

November 18, 2019