

**Lara Benfatto - Copia del Curriculum Vitae ai fini della pubblicazione****Academic Degrees**

**1998-2001:** PhD in Physics at the University of Rome “La Sapienza”. Thesis on “Spectral properties, quasiparticles and collective modes in High- $T_c$  superconductors”, supervisor Prof. C. Castellani.

**30/10/1998:** Degree in Physics with full marks and honor (110/110 cum laude) at University of Rome “La Sapienza”. Thesis “Effetto delle fluttuazioni superconduttive sulla suscettibilità di carica e di spin” (Effect of superconducting fluctuations on the spin and charge susceptibility), supervisor Prof. C. Castellani.

**1993-1998:** Undergraduate studies in Physics at the University of Rome “La Sapienza”.

**Scientific career**

**2009-present** Researcher (staff) at the CNR-ISC, Rome, Italy.

**2006-2009** Young Researcher Grant of the “Enrico Fermi” Center of Rome, Rome, Italy.

**2004-2006** Research fellowship (assegno di ricerca) of the CNR-INFM Center for Statistical Mechanics and Complexity in Rome.

**2003-2004** Post-doc position of the Swiss National Foundation (under the MANEP program) for an inter-university project involving the University of Fribourg, University of Neuchâtel, and University of Geneva.

**2001-2003** Post-doc position at the Physics Department of the University of Fribourg, Switzerland.

**Conferences organization**

**2018** Co-chair of the International Conference “Low energy electrodynamics in solids” LEES 2018, Portonovo (AN), Italy, 24-29 June 2018.

**2018** Chair of the “International Workshop on 2D Superconductivity”, Sapienza University, Rome, 22 June 2018.

**2017** Member of the Advisory Committee for the LT-28 conference, Gothenburg, Sweden, August 9-16, 2017

**2016** Member of the Program Scientific Committee of the LEES 2016 conference, Shiga, Japan, 29 May- 3 June, 2016

**2015** Chair of the Workshop: “Superconductivity on the verge: nanostructures and inhomogeneity”, Lorentz Center, Leiden, 27-31 July 2015

**2014** Organizer of the Workshop: “New frontiers for Majorana fermions from condensed to dark matter”, LNF Frascati, 5-6 Maggio 2014

**2014** Member of the Program Scientific Committee of the LEES 2014 conference, Amboise, France, 29 June-4 July 2014

**Funding**

**2017-2019** Maeci- SuperTop “Topological Phases of Matter in 2D Superconducting materials”. Significant Research project within the frame of the Executive Programme of Scientific and Technological Cooperation between Italy and India. Role: Principal Investigator

**2014-2017** Prin-Miur 2012: Rideiron “Using controlled disorder to investigate the mechanism of iron-based superconductors”. Role: Coordinator of the CNR Unit.

**2013-2016** FIRB 2012 -HybridNanoDev “Hybrid superconductor-semiconductor nanostructures: nanoelectronic applications, topological properties, correlation and disorder”. Role: CNR-Unit member.

**Students and postdocs supervising**

**2012-2018** Master students: Marco Marciani, Marco Santagata, Manuel Offidani, Raffaele Battilomo, Giulia Venditti, Mattia Udina

**2012-2017** PhD students: Laura Fanfarillo, Tommaso Cea, Ilaria Maccari

**2014-2016** Post-doc: Valentina Brosco

**Scientific service**

**2012-present** Peer reviewer for the US National Science Foundation, the Israel Science Foundation and the Deutsche Forschungsgemeinschaft

**2001-present** Referee for Physical Review B, Physical Review Letter, Review of Modern Physics, European Physics Journal B, Europhysics Letters, Nature Physics and Nature Communications

**2017-present** Member of the **Editorial Board of the Physical Review B**

**Prizes and Recognitions**

**2018** Winner of the **Ludwig-Genzel-Prize 2018** "for advancing the theoretical understanding of the dynamical response of interacting electronic systems, in particular superconductors", see the prize [webpage](#).

**2016** Named **Outstanding Referee** of the American Physical Society

**2001** Winner of the Prize **Premio per giovani autori scientifici (Joung Researcher Prize)** for the innovative contents of the poster: "Collective mode contribution to the superfluid density depletion in high- $T_c$  superconductors", INFMeeting, Roma, June 18-22 2001

**Publications and presentations**

58 talks at conferences and schools, among them 38 invited. 26 invited seminars and colloquia at research institutions. The complete list of them can be found at the candidate's [webpage](#).

89 Publications, 1500 citations, h-index 23 from Web of Science, 1925 citations, h-index 26 from Google Scholar (as of June 2018). Among them 14 Physical Review Letter, 2 Nature Communications (in press), 47 Physical Review B, one Scientific Report, one Applied Physics Letter. The complete list of them can be found at the candidate's [webpage](#).

Rome, July 15, 2018

(Lara Benfatto)

