

**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**

**2019-present** Associate Professor in Theoretical Physics of Condensed Matter (02/B2) at the Physics Department, Sapienza University of Rome, Italy

**2009-2109** 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**

**2021** Co-chair of the international workshop Faraday discussion on “Optical to THz Control of Materials”, London, UK, May 23-25 2022.

**2021** Member of the Advisory Committee for the Conference M2S, July 2022

**2019** Chair of the Workshop “SuperTop2019: Emergent phenomena at low dimensions”, Sapienza University of Rome, 4-6 September 2019.

**2019** Chair of the Workshop “Light and Technology: the frontier of emergent systems”, Sapienza University of Rome, March 18 2019.

**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**(as PI)

**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.

**Students and postdocs supervising**

**2012-2021** Master students: Marco Marciani, Marco Santagata, Manuel Offidani, Raffaele Battilomo, Giulia Venditti, Mattia Udina, Francesco Gabriele, Giovanni Caldarelli, Jacopo Fiore, Riccardo Senese.

**2012-2021** PhD students: Laura Fanfarillo, Tommaso Cea, Ilaria Maccari, Mattia Udina, Francesco Gabriele, Giovanni Caldarelli, Jacopo Fiore

**2014-2021** Post-docs: Valentina Brosco (2014-2016), Marco Marciani (2020-2022).

**Scientific service**

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

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

**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**

69 talks at conferences and schools, among them 49 invited. 33 invited seminars and colloquia at research institutions. The complete list of them can be found at the candidate's [webpage](#).

107 Publications, 2618 citations and h-index 30 from WoS, 3680 citations and h-index 37 from Google Scholar (as of 28 December 2021). Among them 1 Nature Material, 1 Nature Physics, 3 Nature Communications, 17 Physical Review Letter, 54 Physical. Review B. The complete list of them can be found at the candidate's [webpage](#).

Rome, December 28, 2021

(Lara Benfatto)

