Qualification Summary

- Associate professor in physics of fundamental interactions (S.S.D. FIS/01, S.C. 02/A1).
- Expertise in gravitational wave, black hole, and neutron star physics, data/signal processing, general-relativistic-(magneto)hydrodynamics numerical simulations, and in solving numerically highly non-linear partial differential equations, in general.
- 140 peer-reviewed publications (2 solo-author) and 15 preprints, ∼43,000 citations, h-index 70, g-index 148; 53 scientific talks, half of which on invitation, and several talks for the general public.
- Teaching experience at both undergraduate and graduate levels in the areas of General Relativity, Classical Physics, Astrophysics, Mathematics, and Computer Programming.
- Proficiency in high-performance and high-throughput computing on massively parallel computers and in analysing large amounts of research data.
- Extensive software development experience in multiple programming languages, within small and large collaborations and individually.
- Broad range experience collaborating with international scientific research teams.

Employment History

07/2021-present:	**Associate Professor**, Dipartimento di Fisica, Sapienza – Università di Roma
07/2018-06/2021:	**Assistant Professor**, Dipartimento di Fisica, Sapienza – Università di Roma
01/2017-06/2018:	**Research fellow**, Cardiff University
11/2013-12/2016:	**Research associate**, Cardiff University
11/2012-10/2013:	**Junior scientist**, Albert-Einstein-Institut, Max-Planck-Institut für Gravitationsphysik
11/2009-10/2012:	**Post-doctoral researcher**, Albert-Einstein-Institut, Max-Planck-Institut für Gravitationsphysik

Education

11/2006-10/2009:	**Ph. D. in physics**, Sapienza – Università di Roma
10/2004-09/2006:	**Master's degree in theoretical physics** (*Laurea specialistica in fisica teorica*), Sapienza – Università di Roma, full marks *cum laude* (110/110 e lode)
10/2001-09/2004:	**Bachelor's degree in physics**, (*Laurea in fisica*) Sapienza – Università di Roma, full marks *cum laude* (110/110 e lode)

Student Supervision

2020:	Supervised 3 MSc Physics students of the Sapienza
2020:	Co-supervised 2 MSc Physics students of the University of Naples Federico II

2020:	Supervised 2 BSc Physics students of the Sapienza – University of Rome
2019:	Supervised an MSc Physics student of the Sapienza – University of Rome
2019:	Supervised 2 BSc Computer Science students of the Sapienza – University of Rome
2019:	Co-supervised a BSc Physics student of the Sapienza – University of Rome
2017:	Mentored two Cardiff University MSc students on assessing the measurability of precession in binary black hole coalescences with gravitational-wave Bayesian inference.
2016-2018:	Mentored Friedrich-Schiller-Universität Jena PhD student on assessing the response of gravitational-wave Bayesian inference to binary neutron star mergers.
2016:	Mentored Cambridge University summer student on constraining the polarization content of gravitational-wave data from coalescing binary black holes.
2015:	Mentored University of Trento summer student on the research for his BSc thesis
2014:	Mentored University of Glasgow summer student on Bayesian inference analysis of coalescing binary black hole gravitational-wave data, West Virginia University summer student on modelling neutron star–black hole disruptive mergers, and Cardiff University summer student on coherent gravitational-wave targetted searches.

Service Activities

Regular referee:	Physical Review Letters, Physical Review D, Classical and Quantum Gravity, Journal of Physics G: Nuclear and Particle Physics, Astroparticle Physics, The Astrophysical Journal Letters, The Astrophysical Journal
Regular reviewer:	U.S. National Science Foundation (NSF) Astronomy and Astrophysics Research Grants (AAG), Netherlands Organisation for Scientific Research (NWO)

Awards and Grants

- 2017 Princess of Asturias Award for Technical and Scientific Research
- 2017 Royal Astronomical Society Group Achievement Award for Astronomy
- 2016 Gruber Cosmology Prize
- 2016 Special Breakthrough Prize in Fundamental Physics
- Total of $\sim 200,000$ € individual research fellowship
- Total of $10,000$ € research allowance
- Total of $\sim 28,000$ € for hosting research visits
- Total of $10,000$ € for worhskop orgainization