

Riccardo Buscicchio | Curriculum Vitæ

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Academic positions

Università degli Studi di Milano-Bicocca **Milan, Italy**
Postdoctoral scholar (Assegnista di ricerca), Department of Physics "G.Occhialini" 2021 - current

- Main activity: development of LISA data analysis ground-segment for the Italian Space Agency.

Education

University of Birmingham **Birmingham, UK**
Ph.D., School of Physics & Astronomy 2017-2021

- Supervisor: A. Vecchio. Thesis resulted in 6 short-author publications.
- Thesis Title: Topics in Bayesian population inference for Gravitational Wave Astronomy

Università degli Studi di Pisa **Pisa, Italy**
Master's degree in Theoretical physics 2013-2016

- Supervisor: G. Cella. Thesis resulted in one short-author publications.
- Thesis title: An improved detector for non-gaussian stochastic background of gravitational waves.

Columbia University **New York NY, USA**
INFN-NSF Summer Internship Jun-Sept 2013

- Supervisor: S. Marka, I. Bartos.

Metrics

Publications:

- 20 short-author papers published in major peer-reviewed journals (out of which 5 first-authored papers).
- 12 collaboration papers, with substantial contribution, published in major peer-reviewed journals
- 4 papers in submission stage,
- 2 other publications (thesis, white papers, long-authorlist reviews)

Total number of citations: >10700. h-index: 22 (using ADS and iNSPIRE).

Web links to list services: [ADS](https://arxiv.org/); [iNSPIRE](https://www.inspire.ac/); [arXiv](https://arxiv.org/); [orcid](https://orcid.org/).

Full list of publications available at www.riccardobuscicchio.com/publications.

Full list of presentations available at www.riccardobuscicchio.com/talks.

Grants, Prizes, & Awards

Career prizes:

- Braccini PhD Thesis Prize, Gravitational Wave International Committee honorable mention. 2021
- Michael Penston PhD Thesis Prize, Royal Astronomical Society runner-up prize. 2021

Other funding:

- EuroHPC PRACE "LISAS-FIT" proposal, 100k CPUh on Leonardo BOOSTER 2023
- Google Cloud for Researchers, 4kEUR Google Cloud Research Credits 2023
- CINECA ISCRA Type-C project "LISA-MW" proposal, 10k CPUh at the Italian National HPC center. 2022
- Travel Grant, Horizon 2020 AHEAD 2020 (High Energy Astrophysics) 2021
- Travel Grant, American Physical Society, DGRAV Student Travel Grant 2020
- Travel Grant, Institute of Physics Student Travel fund 2019

Supervision, Mentoring, Teaching

Ph.D. student co-supervisor:

- o A. Spadaro, University of Milano-Bicocca. 2022-2025
- o F. Pozzoli, University of Insubria. 2022-2025

MSc student mentoring:

- o D. Chirico, University of Milano-Bicocca, Master's thesis. 2023-2024
- o S. Corbo, Politecnico di Milano, Master's thesis. 2023-2024
- o R. Rosso, University of Pisa, Master's thesis (co-mentor). 2023-2024
- o G. Astorino, University of Pisa, Master's thesis (co-mentor). 2023-2024
- o M. Piarulli, University of Milano-Bicocca, Master's thesis. 2022-2023
(now PhD student at Univ. of Toulouse)
- o A. Spadaro, University of Milano-Bicocca, Master's thesis. 2021-2022
(now PhD student at Univ. of Milano-Bicocca)
- o A. Carzaniga, University of Milano-Bicocca, Master's thesis. 2021-2022
- o A. Geminardi, University of Milano-Bicocca, Master's thesis. 2021-2022
(now PhD student at Univ. of Pavia)
- o E. Finch, University of Birmingham, Year 4 project. 2018
- o V. Spasova, University of Birmingham, Year 4 project. 2018

BSc student mentoring:

- o H. P. G. Carabajo, University of Milano-Bicocca, Bachelor's thesis. 2023-2024

Taught classes:

- o Current and future challenges in GW astronomy, PhD course, Milano-Bicocca (IT). 2023
- o Mathematical physics and gravity (MAF900), Module 3, PhD course, Univ. of Stavanger (NO). 2023
- o Contributed lecture to Astrostatistics (F5802Q014/20), Astrophysics MSc, Milano-Bicocca. 2022

Tutoring:

- o Year 2 Python Computing Lab, Physics BSc, Birmingham. 2017-2021
- o Year 2 Maths for physicists, Physics BSc, Birmingham. 2017-2019
- o Year 4 Physics and communication skills, Physics BSc, Birmingham. 2019

Academic service, editorial and research responsibilities

International collaboration responsibilities

- PA&QA lead of the Coordination Unit L2D (ESA LISA Project Office) 2024-current

Journal referee

- o Physical Review Letters
- o The Astrophysical Journal Letters
- o Journal of Cosmology and Astroparticle Physics
- o Monthly Notices of the Royal Astronomical Society
- o Physics Letters D
- o The Open Journal of Astrophysics
- o NASA Technology Transfer Program

Editorial responsibilities

- o MDPI Universe 2024
Special Issue "*Challenges and Synergies with Future Gravitational Wave Observatories*".
- o Editorial board Lensing subgroup in the LIGO, Virgo, KAGRA collaboration 2023
- o Co-editor of a Living Review in relativity issue on "LISA data analysis" 2022-2023

Conference organizer (or committee member)

- o IFPU focus week on "*Emerging methods in GW population inference*", Trieste, IT. 2024
- o LISA Astrophysics Working Group Conference, Birmingham, UK. 2022

- *Gravitational-wave populations: what's next?*, Milan, Italy. 2023
- *Gravitational-wave Excellence Alliance Training (GrEAT) PhD school*, Birmingham, UK. 2019
- *Gravitational-wave Open Science Center First Open Data Workshop*, Remote 2019

Memberships

- Italian Center for Supercomputing (ICSC). *since 2021*
- TEONGRAV National Initiative (Gravity Theory) *since 2021*
Italian National Institute for Nuclear Physics (INFN).
- LIGO, Virgo, Kagra Collaboration, full member. *since 2017*
- LISA Consortium, full member. *since 2018*
- Italian Society of General Relativity and Gravitational Physics (SIGRAV) *since 2021*
- Istituto Nazionale di Astrofisica (INAF) *since 2021*
- American Physical Society (APS), member.
- Italian Physical Society (SIF), member 2021
- Royal Astronomical Society (RAS), fellow. 2018-2021