

# Riccardo Buscicchio | Presentations

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**Presentations:** 18 talks at conferences, 10 talks at department seminars,

Invited talks marked with \*.

## Talks at conferences:

- 18.\* *Statistical challenges in LISA data analysis.*  
LAUTARO joint meetig, GSSI-University of Milano-Bicocca, Milano, Italy, Apr 2024.
17. *From mHz to kHz: stochastic background implications on astrophysical sources and population reconstruction.*  
LISA Astrophysics working group workshop, University of Milano-Bicocca, Milano, Italy, Sept 2023.
16. *Non-gaussian gravitational wave backgrounds across the GW spectrum.*  
XXV Sigrav conference on general relativity and gravitation, SISSA, Trieste, Italy, Sept 2023.
- 15.\* *LISA SGWB data analysis (session chair).*  
Data Analysis Challenges for SGWB Workshop, CERN, Geneva, Switzerland, Jul 2023.
- 14.\* *Global Fit and foregrounds.*  
LISA SGWB detection brainstorming, Univ. of Geneva, Geneva, Switzerland, Jul 2023.
- 13.\* *Beyond functional forms: non-parametric methods. (panelist talk).*  
Gravitational-wave populations: What's next?, Milano-Bicocca, IT, Jul 2023.
12. *The last three years : multiband gravitational-wave observations of stellar-mass binary black holes.*  
LISA Astrophysics working group workshop, University of Birmingham, Birmingham, UK, Jun 2022.
11. *The last three years : multiband gravitational-wave observations of stellar-mass binary black holes.*  
American Physical Society (APS) April meeting, New York (NY), USA, Apr 2022.
10. *Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*  
XXIV Sigrav conference on general relativity and gravitation, Urbino, Italy, Sept 2021.
9. *Chirp: a web and smartphone application for visualization of gravitational-wave alerts.*  
(remote) 14th Amaldi Conference on Gravitational Waves, Jul 2021.
8. *Milky Way Satellites Shining Bright in Gravitational Waves.*  
(remote) 13th LISA Symposium, Sept 2020.
7. *Constraining the Lensing of Binary Black Holes from Their Stochastic Background.*  
LISA Sprint workshop, Center for Computational Astrophysics, Flatiron Institute, New York (NY), USA, Mar 2020.
6. *Multiple source detection in GW astronomy: the label switching problem.*  
30th Texas Symposium, University of Portsmouth, Portsmouth, UK, Dec 2019.
5. *Non-gaussian Stochastic background search with importance sampling.*  
LIGO, Virgo, KAGRA March meeting, Lake Geneva Wisconsin, Milwaukee, USA, Mar 2019.
4. *Hierarchical nonparametric density estimation for population inference.*  
LIGO, Virgo, KAGRA September meeting, Warsaw, Poland, Sept 2019.
3. *An improved detector for non-Gaussian stochastic background.*  
Stochastic Background Data Analysis for LISA meeting, Instituto de Fisica Teorica, Madrid, Spain, Jan 2019.
2. *Fast Evaluation of Campbell processes N-point correlation functions.*  
Astro Hack Week: Data Science for Next-Generation Astronomy, Lorentz Center, Leiden, The Netherlands, Aug 2018.
1. *Stochastic Gravitational Wave Background Data Analysis for Radler.*  
5th LISA Cosmology Working Group workshop, Physicum, University of Helsinki, Helsinki, Finland, Jun 2018.

## Talks at department seminars:

- 10.\* *Statistical challenges in GW inference: an application of field theory to direct population reconstruction in LISA.*  
APP seminar, SISSA, Trieste, Italy, May 2024.
- 9.\* *GRAF: Gravitational waves data and global fit.*  
Department of Physics, University of Milano-Bicocca, Milan, Italy, Dec 2023.
- 8.\* *LISA global inference: statistical and modelling challenges for the Milky Way.*  
Max Planck Institute for Astrophysics, Munchen, Germany, Nov 2023.
- 7.\* *LISA Global inference: modelling, statistical, and computational challenges.*  
Department of Physics, University of Pisa, Pisa, Italy, Oct 2023.

- 6.\* *Gravitational waves in the many sources, many detectors era.*  
Institute for Mathematics and Physics, University of Stavanger, Stavanger, Norway, Apr 2023.
- 5.\* *The last three years: multiband gravitational-wave observations of stellar-mass binary black holes.*  
Physics Department, Columbia University, New York (NY), USA, 2022.
- 4.\* *Stellar mass binary black holes : what, when, and where.*  
Astroparticule et cosmologie, Université Paris Cité, Paris, France, (remote) 2022.
3. *Search for lensing signatures in the gravitational-wave observations from the first half of LIGO-Virgo's third observing run.*  
(remote, on behalf of the LVK collaboration) 2nd European Physical Society Conference on Gravitation, Jul 2021.
- 2.\* *Set the alarm : Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*  
(remote) Sun Yat-sen University, Zhuhai, China, 2021.
1. *Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*  
(remote) LISA Data Analysis Conference, 2021.