Andrea Mitridate

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Education

2016–2019 **PhD in Physics** *Pisa, Italy*
Scuola Normale Superiore
- Thesis: *Bound States in Dark Matter Phenomenology* — Supervisor: Prof. Roberto Contino
- Grade: *cum laude*

2013–2016 **M.Sc. in Theoretical Physics** *Florence, Italy*
University of Florence
- Thesis: *Aspects of Composite Dark Matter* — Supervisor: Prof. Michele Redi
- Grade: 110/110 *cum laude*

2010–2013 **B.Sc. in Physics and Astrophysics** *Florence, Italy*
University of Florence
- Thesis: *Numerical Study of Ergodicity Breaking in the Ising Model* — Supervisor: Prof. Lapo Casetti
- Grade: 110/110 *cum laude*

Professional Appointments & Affiliations

2026–now **Royal Society University Research Fellow** *London, UK*
Imperial College London

2022–2026 **Postdoctoral Researcher** *Hamburg, Germany*
DESY

2019–2022 **Postdoctoral Researcher** *Pasadena, USA*
Caltech

PROFESSIONAL AFFILIATIONS

- North American Nanohertz Observatory for Gravitational Waves (NANOGrav), **Full Member** 2020–now
- International Pulsar Timing Array (IPTA), **Member** 2020–now
- Laser Interferometer Space Antenna (LISA), **Community Member** 2025–now

Professional Certifications

2024–2034 **National Scientific Qualification (ASN), Associate Professor** *Italy*
Italian National Scientific Qualification for the role of Associate Professor in the competition sector (GSD) 02/PHYS-02 — Theoretical Physics of Fundamental Interactions.

Publications

56 (31) papers, of which 51 (27) are published or accepted for publication in major peer-reviewed journals. Figures in parentheses here and in the table below cover the papers with a short author list or on which I was corresponding author; these are listed first in the full publication list (page 4).

Database	Citations	Citations / paper	h-index	m-index
INSPIRE-HEP	7341 (2856)	131.1 (92.1)	32 (22)	≈3.2 (2.2)
NASA ADS	6247 (2367)	111.6 (76.4)	30 (20)	≈3.0 (2.0)
Scopus	4380 (1556)	78.2 (50.2)	25 (18)	≈2.5 (1.8)

All figures retrieved 28 September 2026.

Research Funding

Research grants awarded since 2025: ∼£2.2M across three personal fellowships, of which £1,573,409 is currently held.

PERSONAL RESEARCH FELLOWSHIPS

2026–2034 **University Research Fellowship** — Royal Society *(accepted)* *£1,573,409*

2026 **Rita Levi Montalcini Fellowship** — Italian Ministry of University and Research† *€437,153*

2025 **Ramón y Cajal Junior Fellowship** — Spanish State Research Agency *(declined)*† *∼€360,000*

†Fellowship includes a tenure-track position.

WORKSHOP & PROGRAMME FUNDING (AWARDED AS LEAD ORGANIZER)

∼€150,000 awarded across three competitively selected programmes at two institutes.

2027 **Topical workshop** — Mainz Institute for Theoretical Physics (MITP), Cluster of Excellence PRISMA$^+$: *The Emerging Nanohertz Gravitational-Wave Sky* *∼€10,000*

2026 **Summer workshop** — Galileo Galilei Institute (GGI), INFN: *Listening to the Cosmos: New Frontiers in Gravitational Wave Physics* *∼€110,000*

2026 **PhD school** — Galileo Galilei Institute (GGI), INFN: *Theory Meets Experiment 2026 — Gravitational Wave Physics* *∼€30,000*

Selected Invited Presentations

60 oral presentations, of which 50 were invited. The full list can be found on page 7.

2026 NAM 2026 — Royal Astronomical Society National Astronomy Meeting, *invited speaker* *Birmingham*

2026 DPG Annual Conference, *invited speaker* *Erlangen*

2025 Invisibles25 Workshop, *invited speaker* *CERN*

2025 21st Rencontres du Vietnam, *invited speaker* *ICISE*

2025 Solvay Workshop on Gravitational Waves, *invited speaker* *Brussels*

2024 Fundamental physics and gravitational wave detectors workshop, *invited speaker* *Pollica*

2023 European Physical Society Conference on High Energy Physics, *invited speaker* *Hamburg*

Teaching & Mentoring

MENTORING

2026–now *Postdoc* — David Wright *Imperial College London*

2026–now *Graduate student* — Pedro Bautista, *directing thesis/dissertation research* *Imperial College London*

2026–now *Graduate student* — Eric Lizalde Panadés, *directing thesis/dissertation research* *Imperial College London*

2024–now *Graduate student* — Anna-Malin Lemke, *directing thesis/dissertation research* *DESY*

2023–2024 *Master's student* — Anna-Malin Lemke, *currently PhD student at DESY* *University of Hamburg*

TEACHING

2026 **Fundamental Physics with PTAs**
Invited Lecturer — Vanderbilt University
Intensive two-week-long PhD school on pulsar timing arrays. Remotely delivered a lecture on tests of fundamental physics with PTA observations.

2024 **Gravitational Wave Detection**
Invited Lecturer — DESY, Hamburg
Intensive week-long PhD school organized by the Quantum Universe cluster in Hamburg. Delivered 3 lectures on gravitational wave detection with pulsar timing arrays.

2024 **Cosmological Sources of Gravitational Waves**
Invited Lecturer — Vanderbilt University
Intensive two-week-long PhD school on pulsar timing arrays. Remotely delivered a lecture on primordial sources of gravitational wave backgrounds.

2023 **Gravitational Waves and PTAs**
Invited Lecturer — Leipzig University
Intensive week-long PhD school. Delivered two lectures on gravitational wave detection with pulsar timing arrays.

2017 **Classical Mechanics**
Teaching Assistant — Scuola Normale Superiore, Pisa
Teaching assistant for the undergraduate class on Classical Mechanics at Scuola Normale Superiore.

Honors & Awards

2024 **Best Paper Award** — Quantum Universe Cluster of Excellence, Hamburg *prize: €1,100*

2020 **Honorable mention** — Premio Fubini for best PhD thesis

2019 **Best presentation, Cosmology section** — IFAE

Leadership & Professional Service

RESEARCH LEADERSHIP

Co-chair, NANOGrav New Physics working group 2023–now

Member, NANOGrav Observational Era Committee 2024–2025

CONFERENCE ORGANIZATION

Organizer, Mainz Institute for Theoretical Physics (MITP) topical workshop "The Emerging Nanohertz Gravitational-Wave Sky: From Massive Black Holes to New Physics" 2027

Organizer, Galileo Galilei Institute (GGI) PhD school "Theory Meets Experiment 2026: Gravitational Wave Physics – From Fundamental Principles to Next-Generation Observatories" 2026

Organizer, Galileo Galilei Institute (GGI) summer workshop "Listening to the Cosmos: New Frontiers in Gravitational Wave Physics" 2026

Convener, "Cosmology" session of the "Synergies Towards the Future Standard Model" workshop at DESY 2025

Convener, "Dark matter, astroparticles and gravitational waves" parallel session of the SUSY24 conference 2024

Convener, "Cosmology & Astroparticle Physics" session of the "Whispers from the Dark Universe — Particles & Fields in the Gravitational Wave Era" workshop at DESY 2024

SEMINAR ORGANIZATION

Member of Organising committee, GW:UK 2026–now

Organizer, Imperial College Abdus Salam colloquia 2026–now

Organizer, Caltech High Energy Theory Seminars 2020–2021

Organizer, Scuola Normale Journal Club 2017–2018

REVIEWER FOR INTERNATIONAL JOURNALS

Nature • Physical Review Letters • Physical Review D • The Astrophysical Journal Supplement Series • Monthly Notices of the Royal Astronomical Society • Journal of Cosmology and Astroparticle Physics (JCAP)

GRANT PROPOSAL REVIEWER

The Czech Science Foundation

CODE & DATA SHARING

Developer, PTA data analysis software package `PTArcade`

Maintainer, data release for the NANOGrav 15-year new physics search

MEDIA COVERAGE AND OUTREACH

Interviewed and quoted, *Science*: Long-sought hum of gravitational waves from giant black holes heard for first time

Interviewed and quoted, *New Scientist*: Gravitational waves spark hunt for cosmic strings and dark matter

Interviewed and quoted, *Scientific American*: A Background 'Hum' Pervades the Universe. Scientists Are Racing to Find Its Source

Interviewed, science outreach podcast Chelonia Applied Science

Tutoring for Scuola Normale Superiore's week-long orientation course for high-school students considering STEM degrees (summer 2017)

Full Publication List

Authorship on large collaboration analysis papers is alphabetical by policy; papers I led are listed separately below and marked [corresponding author]. An asterisk (*) marks works in which the authorlist is not in alphabetically order.

SHORT AUTHOR LIST — SUBMITTED

4. *J. W. Foster, K. K. Boddy, J. A. Dror, V. S. H. Lee, **A. Mitridate**, T. L. Smith, K. Taylor and T. Trickle, "*Correlated signals of ultralight scalar dark matter in pulsar timing*", [arXiv:2607.24912].
3. X. Gan, H. Kim, A. M. Lemke and **A. Mitridate**, "*Probing Quadratically Coupled Ultralight Dark Matter with the Laser Interferometer Space Antenna*", [arXiv:2607.08248].
2. *A. M. Lemke, **A. Mitridate**, T. Konstandin, M. Pieroni and J. Alvey, "*Detecting Gravitational-Wave Anisotropies with Simulation-Based Inference*", [arXiv:2605.24082].
1. ***A. Mitridate**, D. Wright, R. von Eckardstein, T. Schröder, J. Nay, K. Olum, K. Schmitz and T. Trickle, "*PTArcade*", [arXiv:2306.16377].

SHORT AUTHOR LIST — PUBLISHED OR ACCEPTED IN MAJOR PEER-REVIEWED JOURNALS

25. *W. G. Lamb, J. M. Wachter, **A. Mitridate**, S. C. Sardesai, B. Bécsy, E. L. Hagen, S. R. Taylor and L. Z. Kelley, "*Finite populations and finite time: The non-Gaussianity of a gravitational wave background*", PRD **113**, no.12, 123065 (2026).
24. X. Gan, H. Kim and **A. Mitridate**, "*Probing quadratically coupled ultralight dark matter with pulsar timing arrays*", PRD **113**, no.6, 063034 (2026).
23. *K. A. Gersbach, S. R. Taylor, B. Bécsy, A. M. Lemke, **A. Mitridate** and N. Pol, "*Mapping the gravitational-wave background across the spectrum with a next-generation anisotropic per-frequency optimal statistic*", PRD **113**, no.10, 103031 (2026).
22. T. Konstandin, A. M. Lemke, **A. Mitridate** and E. Perboni, "*Prospects and limitations of PTAs anisotropy searches — the frequentist case*", JCAP **02**, 084 (2026).
21. T. Konstandin, A. M. Lemke, **A. Mitridate** and E. Perboni, "*The impact of cosmic variance on PTAs anisotropy searches*", JCAP **04**, 059 (2025).
20. *A. M. Lemke, **A. Mitridate** and K. A. Gersbach, "*Detecting gravitational wave anisotropies from supermassive black hole binaries*", PRD **111**, no.6, 063068 (2025).
19. N. Cordes, **A. Mitridate**, K. Schmitz, T. Schröder and K. Wassner, "*On the overlap reduction function of pulsar timing array searches for gravitational waves in modified gravity*", Class. Quant. Grav. **42**, no.1, 015003 (2025).
18. H. Kim and **A. Mitridate**, "*Stochastic ultralight dark matter fluctuations in pulsar timing arrays*", PRD **109**, no.5, 055017 (2024).
17. *E. C. Gardiner, L. Z. Kelley, A. M. Lemke and **A. Mitridate**, "*Beyond the Background: Gravitational-wave Anisotropy and Continuous Waves from Supermassive Black Hole Binaries*", ApJ **965**, no.2, 164 (2024).
16. **A. Mitridate**, K. Pardo, T. Trickle and K. M. Zurek, "*Effective field theory for dark matter absorption on single phonons*", PRD **109**, no.1, 015010 (2024).
15. ***A. Mitridate**, M. Papucci, C. W. Wang, C. Peña and S. Xie, "*Energetic long-lived particles in the CMS muon chambers*", PRD **108**, no.5, 055040 (2023).
14. D. E. Kaplan, **A. Mitridate** and T. Trickle, "*Constraining fundamental constant variations from ultralight dark matter with pulsar timing arrays*", PRD **106**, no.3, 035032 (2022).
13. **A. Mitridate**, T. Trickle, Z. Zhang and K. M. Zurek, "*Snowmass white paper: Light dark matter direct detection at the interface with condensed matter physics*", Phys. Dark Univ. **40**, 101221 (2023).
12. *H. Y. Chen, **A. Mitridate**, T. Trickle, Z. Zhang, M. Bernardi and K. M. Zurek, "*Dark matter direct detection in materials with spin-orbit coupling*", PRD **106**, no.1, 015024 (2022).
11. **A. Mitridate**, T. Trickle, Z. Zhang and K. M. Zurek, "*Dark matter absorption via electronic excitations*", JHEP **09**, 123 (2021).
10. V. S. H. Lee, **A. Mitridate**, T. Trickle and K. M. Zurek, "*Probing Small-Scale Power Spectra with Pulsar Timing Arrays*", JHEP **06**, 028 (2021).
9. **A. Mitridate**, T. Trickle, Z. Zhang and K. M. Zurek, "*Detectability of Axion Dark Matter with Phonon Polaritons and Magnons*", PRD **102**, no.9, 095005 (2020).
8. A. Coskuner, **A. Mitridate**, A. Olivares and K. M. Zurek, "*Directional Dark Matter Detection in Anisotropic Dirac Materials*", PRD **103**, no.1, 016006 (2021).
7. L. Bradshaw, R. K. Mishra, **A. Mitridate** and B. Ostdiek, "*Mass Agnostic Jet Taggers*", SciPost Phys. **8**, no.1, 011 (2020).

6. C. Gross, **A. Mitridate**, M. Redi, J. Smirnov and A. Strumia, "*Cosmological Abundance of Colored Relics*", PRD **99**, no.1, 016024 (2019).
5. R. Contino, **A. Mitridate**, A. Podo and M. Redi, "*Gluequark Dark Matter*", JHEP **02**, 187 (2019).
4. **A. Mitridate** and A. Podo, "*Bounds on Dark Matter decay from 21 cm line*", JCAP **05**, 069 (2018).
3. V. De Luca, **A. Mitridate**, M. Redi, J. Smirnov and A. Strumia, "*Colored Dark Matter*", PRD **97**, no.11, 115024 (2018).
2. **A. Mitridate**, M. Redi, J. Smirnov and A. Strumia, "*Dark Matter as a weakly coupled Dark Baryon*", JHEP **10**, 210 (2017).
1. **A. Mitridate**, M. Redi, J. Smirnov and A. Strumia, "*Cosmological Implications of Dark Matter Bound States*", JCAP **05**, 006 (2017).

COLLABORATION PAPERS — LEAD / CORRESPONDING AUTHOR

2. **NANOGrav Collaboration** [corresponding author], "*The NANOGrav 15 yr Data Set: Search for Signals from New Physics*", ApJL **951**, no.1, L11 (2023).
1. **NANOGrav Collaboration** [corresponding author], "*Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset*", PRL **127**, no.25, 251302 (2021).

COLLABORATION PAPERS — SUBMITTED

1. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Impacts of Customized Chromatic Noise Models on Gravitational Wave Analyses*", [arXiv:2606.28554].

COLLABORATION PAPERS — PUBLISHED OR ACCEPTED IN MAJOR PEER-REVIEWED JOURNALS

24. *T. T. Moursy et al. [inc. **A. Mitridate**], "*Pulsar Timing Array Sensitivity to Anisotropy: Empirical Sensitivity Curves, Scaling Relations, and the Multi-resolution Pixel Basis*", ApJ **1008**, no.2, 205 (2026).
23. *C. Matt et al. [inc. **A. Mitridate**], "*Gravitational-wave Measurement of the $M_{\rm BH}$–$M_{\rm bulge}$ Intrinsic Scatter at High Redshift*", ApJ **1006**, no.1, 63 (2026).
22. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Piecewise Power-law Reconstruction of the Gravitational-wave Background*", ApJL **1004**, no.2, L40 (2026).
21. *C. Matt et al. [inc. **A. Mitridate**], "*Inferring $M_{\rm BH}$–$M_{\rm bulge}$ Evolution from the Gravitational-wave Background*", ApJ **997**, no.2, 188 (2026).
20. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Dataset: Targeted Searches for Supermassive Black Hole Binaries*", ApJL **998**, no.1, L11 (2026).
19. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Search for Gravitational-wave Memory*", ApJ **987**, no.1, 5 (2025).
18. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Removing Pulsars One by One from the Pulsar Timing Array*", ApJ **978**, no.2, 168 (2025).
17. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Harmonic Analysis of the Pulsar Angular Correlations*", ApJ **985**, no.1, 99 (2025).
16. *Y. Chen, M. Daniel, D. J. D'Orazio, X. Fan, **A. Mitridate**, L. Sagunski, X. Xue and the NANOGrav Collaboration, "*Inference on inner galaxy structure via gravitational waves from supermassive binaries*", Nature Astron. **10**, no.4, 554 (2026).
15. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Running of the Spectral Index*", ApJL **978**, no.2, L29 (2025).
14. **NANOGrav Collaboration**, "*The NANOGrav 15 yr dataset: Posterior predictive checks for gravitational-wave detection with pulsar timing arrays*", PRD **111**, no.4, 042011 (2025).
13. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Looking for Signs of Discreteness in the Gravitational-wave Background*", ApJ **978**, no.1, 31 (2025).
12. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Search for Transverse Polarization Modes in the Gravitational-wave Background*", ApJL **964**, no.1, L14 (2024).
11. **NANOGrav Collaboration**, "*The NANOGrav 12.5 yr Data Set: A Computationally Efficient Eccentric Binary Search Pipeline and Constraints on an Eccentric Supermassive Binary Candidate in 3C 66B*", ApJ **963**, no.2, 144 (2024).
10. *B. Bécsy et al. [inc. **A. Mitridate**], "*How to Detect an Astrophysical Nanohertz Gravitational Wave Background*", ApJ **959**, no.1, 9 (2023).
9. **IPTA Collaboration**, "*Comparing Recent Pulsar Timing Array Results on the Nanohertz Stochastic Gravitational-wave Background*", ApJ **966**, no.1, 105 (2024).

8. **NANOGrav Collaboration**, "*The NANOGrav 12.5 yr Data Set: Search for Gravitational Wave Memory*", ApJ **963**, no.1, 61 (2024).
7. **NANOGrav Collaboration**, "*NANOGrav 15-year gravitational-wave background methods*", PRD **109**, no.10, 103012 (2024).
6. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Evidence for a Gravitational-wave Background*", ApJL **951**, no.1, L8 (2023).
5. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Constraints on Supermassive Black Hole Binaries from the Gravitational-wave Background*", ApJL **952**, no.2, L37 (2023).
4. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Detector Characterization and Noise Budget*", ApJL **951**, no.1, L10 (2023).
3. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries*", ApJL **951**, no.2, L50 (2023).
2. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Observations and Timing of 68 Millisecond Pulsars*", ApJL **951**, no.1, L9 (2023).
1. **NANOGrav Collaboration**, "*The NANOGrav 15 yr Data Set: Search for Anisotropy in the Gravitational-wave Background*", ApJL **956**, no.1, L3 (2023).

Full Presentation List

INVITED PRESENTATIONS

2026	University College London: Cosmology, Galaxies and Gravity Seminar, *invited speaker*	*London*
2026	University of Sussex: Astrophysics and Cosmology Seminar, *invited speaker*	*Brighton*
2026	GW:UK, *invited speaker*	*Online*
2026	NAM 2026 — Royal Astronomical Society National Astronomy Meeting, *invited speaker*	*Birmingham*
2026	CamGW seminars, *invited speaker*	*Cambridge*
2026	DPG Annual Conference, *invited speaker*	*Erlangen*
2026	Institute of Cosmology & Gravitation seminars, *invited speaker*	*Portsmouth*
2026	BIG meetings, *invited speaker*	*IFAE Barcelona*
2026	MITP workshop, *invited speaker*	*Mainz*
2025	Invisibles25 Workshop, *invited speaker*	*CERN*
2025	Imperial College London seminars, *invited speaker*	*London*
2025	21st Rencontres du Vietnam, *invited speaker*	*ICISE*
2025	DESY seminar, *invited speaker*	*Hamburg*
2025	La Sapienza University theory seminars, *invited speaker*	*Rome*
2025	Solvay Workshop on Gravitational Waves, *invited speaker*	*Brussels*
2025	CEICO weekly seminars, *invited speaker*	*Prague*
2024	Towards a realistic forecast detection of Primordial Gravitational Wave Backgrounds, *invited speaker*	*Valencia*
2024	Bologna University theory seminar, *invited speaker*	*Bologna*
2024	Fundamental physics and gravitational wave detectors, *invited speaker*	*Pollica*
2024	New Frontiers in Strong Gravity, *invited speaker*	*Benasque*
2024	IPTA meeting 2024, *invited speaker*	*Sexten*
2024	SUSY24, *invited speaker*	*Madrid*
2024	IPhT seminar, *invited speaker*	*Saclay*
2024	INFN seminars, *invited speaker*	*Rome*
2024	Cosmology & Astrophysics group seminars, *invited speaker*	*DIPC*
2024	Quarkonia Meet Dark Matter, *invited speaker*	*TUM*
2023	NuPhys2023, *invited speaker*	*London*
2023	Future Perspectives on Primordial Black Holes, *invited speaker*	*Rome*
2023	IFIC seminar, *invited speaker*	*Valencia*
2023	IX Meeting on Fundamental Cosmology, *invited speaker*	*Tenerife*
2023	Gravitational Wave Symposium, *invited speaker*	*Yale*
2023	KEK Theory Meeting on Particle Physics Phenomenology, *invited speaker*	*KEK Tsukuba*
2023	Gravitational Wave Probes of Physics Beyond the Standard Model, *invited speaker*	*Osaka*
2023	Physik-Combo, *invited speaker*	*Leipzig*
2023	Invisibles23 Workshop, *invited speaker*	*Göttingen*
2023	European Physical Society Conference on High Energy Physics, *invited speaker*	*Hamburg*
2023	Pulsar Timing Arrays: A Star-Way to New Physics workshop, *invited speaker*	*MITP*
2023	DESY Particle and Astroparticle Physics Colloquium, *invited speaker*	*DESY*
2023	Ideas on first evidence of stochastic GW from PTA, *invited speaker*	*Online*
2023	EuCAPT symposium, *invited speaker*	*Geneva*
2022	Padova University High Energy Theory Group Seminars, *invited speaker*	*Padova*
2022	DESY high energy physics seminar, *invited speaker*	*Hamburg*
2022	WWU high energy physics seminar, *invited speaker*	*Münster*
2022	Pisa University Particle Physics Group Seminars, *invited speaker*	*Pisa*
2022	Florence University Particle Physics and Cosmology Group Seminars, *invited speaker*	*Florence*
2021	Perimeter Institute Particle Physics Seminars, *invited speaker*	*Perimeter Institute*
2021	HEP/Astro Results Forum, *invited speaker*	*Online seminar*
2020	Newton Seminars, *invited speaker*	*Online seminar*
2018	Beyond Standard Model: Where do we go from here?, *invited speaker*	*GGI*
2018	53rd Rencontres de Moriond — EW, *invited speaker*	*La Thuile*

CONTRIBUTED PRESENTATIONS

2023	Amaldi Conference, *contributed presentation*	*Online*
2023	NANOGrav meeting, *contributed presentation*	*OSU*
2022	LLPX workshop, *contributed presentation*	*CERN*
2021	AAS meeting, *contributed presentation*	*Online seminar*
2021	IPTA meeting, *contributed presentation*	*Online seminar*
2019	Planck 2019: from the Planck scale to the Electroweak Scale, *contributed presentation*	*Granada*
2019	IFAE 2019, *contributed presentation*	*Naples*
2018	Cortona, New Frontiers in Theoretical Physics, *contributed presentation*	*Cortona*
2017	Planck 2017: from the Planck scale to the Electroweak Scale, *contributed presentation*	*Warsaw*
2016	Cortona, New Frontiers in Theoretical Physics, *contributed presentation*	*Cortona*