

Dr. Enrico Bozzo - Curriculum Vitae (updated on 9 January 2024)

Born on 17 October 1980 (Marino, Italy)
Engaged, 2 children



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Education

27.05.2005: Laurea in Physics cum laude (*Univ. of Rome Tor Vergata; supervisors: Prof. L. Stella, Prof. R. Buonanno*)

01.10.2005 - 31.10.2008: PhD in Astronomy (*Univ. of Rome Tor Vergata (supervisor: Prof. L. Stella)*)

Experience & current activities

01.02.2006 – 28.02.2006: Visitor scientist at Jila, University of Colorado - USA

15.01.2007 – 15.05.2007: Visitor scientist at Jila, University of Colorado - USA

15.12.2008 – 01.04.2009: Post-Doc (*INAF-OAR; Italy*)

01.04.2009 – 31.12.2011: Post-Doc and INTEGRAL operations coordinator (*ISDC, Switzerland*)

01.01.2012 – 31.12.2014: LOFT mission project manager & INTEGRAL operations coordinator (*Department of Astronomy, University of Geneva, Switzerland*)

01.01.2015 – 31.03.2018: XIPE mission project manager & INTEGRAL operations coordinator (*Department of Astronomy, University of Geneva, Switzerland*)

01.01.2015 – 31.12.2018: Athena, JEM-EUSO, and EUCLID project manager & INTEGRAL operations coordinator (*Department of Astronomy, University of Geneva, Switzerland*)

01.01.2019 – 31.12.2023: Athena, JEM-EUSO, EUCLID, THESEUS project manager & INTEGRAL operations coordinator (*Department of Astronomy, University of Geneva, Switzerland*)

01.01.2024 – present: Athena, THESEUS project manager & INTEGRAL operations coordinator (*Department of Astronomy, University of Geneva, Switzerland*); *Coordinator of Space Project development at the Department of Astronomy, University of Geneva*

Current space mission coordination activities:

I am leading the project control and project office activities for the THESEUS mission, taking care of the scientific community and hardware development team coordination, documentation and response files configuration control, set-up and maintenance of the official mission website and mailing lists, verification and planning of the mission development timeline, and delivery of documentation data-packs to ESA for all planned official reviews. I have covered in the past the same role for the LOFT and XIPE missions. For the Chinese-led flagship eXTP mission, I have developed and maintain the mission official website, hosting the configuration control for all documents and handling all communications and exchanges of information with the international community. I do manage also the international science working groups of eXTP, as well as the archival and distribution of all instruments' official response files for scientific simulations.

Current space-hardware development activities:

I am presently the project manager of the EUCLID Read-out Shutter (RSU) development for the VIS instrument (successfully delivered in 2021 for integration onto the Euclid spacecraft), the Athena filter wheel development for the X-IFU instrument, the JEM-EUSO Laser and Pointing system development, the THESEUS filter wheel development for the IRT instrument, and the (USA-led) probe mission LEM filter wheel (under current submission preparation to NASA).

Current ground segment activities for Astronomy space missions:

I am one of the two INTEGRAL operations coordinator at the ISDC in Switzerland. We monitor the reception and processing of telemetry stream from the INTEGRAL satellite to the ISDC, performing daily scientific quick look of the data in near real time, managing communications to the science community at large of the most relevant astrophysical events (including Gamma-ray bursts and counterparts of Gravitational Wave events).

I am coordinating the development in Switzerland of the Instrument Science Centers (ISCs) for both the XIFU and WFI instruments on-board Athena. The ISCs are in charge of the entire mission software development, the data processing, and all instrument operations.

I am the reference person for the design of the THESEUS mission science ground segment in collaboration with ESA, coordinating the software development, data flow, processing strategy, and instrument operational concept.

I am coordinating the European development of the eXTP mission science ground segment.

Other roles associated to operating and future space missions for X-ray Astronomy:

I'm an invited member of both the XMM-Newton (since 2020) and NuSTAR (since 2017) mission user committees, representing the science community during official discussions with ESA and NASA representatives (as well as other colleagues involved in the satellite engineering and scientific operations).

I am a co-Investigator of the X-IFU instrument on-board Athena.

I am a chair of the Athena science working group 3.3 (End points of the stellar evolution), a chair of the eXTP observatory science working group, and a chair of the THESEUS population synthesis model working group. I am a member of the Athena science working group 5.1 (science ground segment) and a member of the NASA STROBE-X project steering committee and science working group.

Astronomy and astrophysical research interests and activities:

My main research field focuses on accretion phenomena in Galactic/extra-Galactic low (LMXB) and high mass X-ray binaries (HMXB). I am a world-leading expert in the theoretical modeling of disk and wind accretion onto compact objects (neutron stars and black-holes) in both LMXBs and HMXBs, as well as a leading expert in the analysis and interpretation of X-ray observations of these systems. I got recently interested in the field of high resolution X-ray spectroscopy of coronal active stars, mainly due to the incoming launch of the XRISM mission.

I am an experienced user of X-ray data from XMM-Newton, Swift, INTEGRAL, NuSTAR, Suzaku, ASCA, Rosat, and Chandra.

I am the co-founder of the SMARTNet project, providing world-wide coordination of multi-wavelength observations of X-ray transient objects.

I have been a member of the PHAROS EU COST Action board, coordinating activities around neutron star-related researches in Europe as well as in all COST-associated countries (the COST action is being re-proposed based on the past success).

I have organized several international conferences world-wide, as detailed in the "Conference organization and participation" section of this curriculum vitae.

I am serving as referee for the Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, New Astronomy, Space Science Review, Advances in Space Research journals, and Publications of the Astronomical Society of Japan.

I have served in the XMM-Newton, NuSTAR, Suzaku, HST, e-MERLIN, Swift, and ASTROSAT observatory peer review panels (also chairing the Time Allocation Committee panels).

I developed and maintain several websites¹ used world-wide and related to space missions for high energy Astrophysics, conferences, and multi-wavelength observation planning. These are daily used by a few thousand scientists around the globe.

I am a member of the Swiss Society for Astrophysics and Astronomy (SSAA) and of the European Astronomical Society (EAS).

Technical skills

Experienced user of IDL, PHP, HTML, CSS, Unix and Windows based software (including Microsoft Office suite)

Project management, coordination, communications and relevant software (including Microsoft Project, Visio and social media)

Experienced user of Content Management Software (e.g. Joomla, Drupal).

Language skills

Mother tongue: Italian; Proficient: English; Familiar: French

Graduated and under-graduated student's follow-up

A. Giunta (Univ. of Rome, Italy; 2008-2009); P. Pradhan (Raman Research Institute, India; 2016-2017); L. Rim (Stony Brook Univ., United States; 2016); R. Basak and P. Pyanka (Nicolaus Copernicus Astronomical Center, Poland; 2015-2017); Ms. S. M. Mazzola (Univ. of Palermo, Italy; 2018-present), A. Yilmaz (Charles University, Czech Republic; 2019-2023).

Awards

2005: 3 years PhD fellowship (University of Tor Vergata, Italy)

¹ <http://www.isdc.unige.ch/loft>; <http://www.isdc.unige.ch/extp>;
<http://www.isdc.unige.ch/euclid>; <http://www.isdc.unige.ch/jemeuso>;
<http://www.isdc.unige.ch/athena>; <http://www.isdc.unige.ch/smartnet>;
<http://www.isdc.unige.ch/xipe>; <http://www.isdc.unige.ch/theseus>;
<http://www.astro.unige.ch/xarm>; <http://www.astro.unige.ch/magbound>;
<http://www.astro.unige.ch/spica>; <http://www.astro.unige.ch/integral2019>;
<http://www.isdc.unige.ch/loft> <http://www.isdc.unige.ch/extp>
<http://www.isdc.unige.ch/euclid> <http://www.issibern.ch/teams/milliseccpulsars>;
<http://www.astro.unige.ch/lisa>

2008: ESA and ESA education grant support for the conference "The X-ray Universe, Granada (Spain), 27-30 May, 2008

DTU Space, Technical University of Denmark and IASF-INAF grant support for the conference "7th INTEGRAL Workshop", Copenhagen, 8-11 September 2008

Post-Doc contract at INAF-OAR (Italy, 1yr contract)

2009: Post-Doc contract at ISDC (Switzerland, 3yr contract)

"Giampietro Puppi" prize (for PhD obtained in 2007-2009).

2010: Travel grant for the year 2010 from the Societ  Suisse d'Astrofisique et d'Astronomie

2011: ESA press release on a published paper: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=48733>

2012: PRODEX contract as LOFT Project Manager at the University of Geneva

Invited to be part of the XMM-Newton panel for observational proposals review (2012)

2013: Grants for the organization of the conference: "Physics at the Magnetospheric Boundary, to be held in Geneva (Switzerland). Grants were awarded by: European Astronomical Society (EAS), Societ  Academique de Geneve (SAG), Swiss National Foundation (SNF), and Commission administrative Universite de Geneve (COMAD)

Proposal for a special session on the LOFT mission accepted to be organized in the EWASS 2013

2014: proposal for a symposium on massive star outflows accepted within the EWASS 2014 (Geneva, Switzerland)

PRODEX contract as JEM-EUSO LIDAR Project Manager at the University of Geneva

2015: co-chair of the Athena Science working group "End point of stellar evolution", member of the Athena Science working groups "Physics of Accretion" and "Science Ground Segment"

PRODEX contract as EUCLID VIS RSU Project Manager at the University of Geneva

2016: PRODEX contract as XIPE Project Manager at the University of Geneva

Coordinator of the observatory science working group of the eXTP mission

Co-Investigator of the X-IFU instrument on-board Athena

Member of the STROBE-X steering committee and science working group

2017: Proposal for a symposium on the properties and evolution of accreting compact objects in low and high mass X-ray binaries accepted to be organized in the EWASS 2017.

Accepted IAU Symposium on "High-mass X-ray binaries: illuminating the passage from massive binaries to merging compact objects", Wien, Austria, 23-30 August, 2018

Travel grant from the Swiss Society for Astronomy and Astrophysics (project title: "Explaining the superorbital modulation of supergiant X-ray binaries" in collaboration with Institut f r Physik und Astronomie, Universit t Potsdam)

Member Committee of the COST Action CA16214 "Pharos" and task leader of its working group 1: "Neutron Star Dense Matter"

Elected member of the NuSTAR satellite Users' Committee

2018: ESA press release on a published paper (<http://sci.esa.int/integral/60029-donor-star-breathes-life-into-zombie-companion/>)

Travel grant from the Swiss Society for Astronomy and Astrophysics for participation to the XMM-Newton 2018 workshop (<https://www.cosmos.esa.int/web/xmm-newton/2018-workshop>)

Outreach projects grant from the Swiss Society for Astronomy and Astrophysics

Travel grant from the IAU for the participation to the General Assembly (24-30 August 2018, Wien, Austria)

Travel grant from the Societe Academique de Geneve the participation to the General Assembly (24-30 August 2018, Wien, Austria)

2019: Travel grant from the Swiss Society for Astronomy and Astrophysics for participation to the Multifrequency Behaviour of High Energy Cosmic Sources workshop (<http://workshop2019.iaps.inaf.it/>)

PRODEX contract as Athena Project Manager at the University of Geneva

2020: Elected member of the XMM-Newton satellite Users' Committee

Invited scientist to defend the INTEGRAL mission science case extension for the 2022-2025 period in front of the ESA science advisory board

2022: Grant for participation to the Cospar 2022 conference

Invited scientist to defend the INTEGRAL mission science case extension for the 2025-2028 period in front of the ESA science advisory board

AHEAD2020 grant as visiting scientist to SRON (The Netherlands) for research in the field of high resolution X-ray spectroscopy

Most relevant programs as principal investigator

2007:

- XMM Proposal approved (88 ks)

2008:

- XMM Proposal approved (88 ks)
- XMM Target of opportunity observation of IGRJ16479-4514 (39 ks)
- XMM Target of opportunity observation of XTE1739-302 (36.3 ks)
- RXTE proposal 2008 (200 ks)

2009:

- RXTE proposal 2009 (100 ks)
- INTEGRAL data right proposal 2009

2010:

- INTEGRAL data right proposal 2010

- XMM Proposal (88 ks)

2011:

- INTEGRAL data right proposal 2011

2013:

- XMM proposal (130 ks)

2015:

- XMM ToO on IGR J17451-3022 (70 ks)
- Suzaku observation of SAX J1818.6-1703 (45 ks)

2016:

- INTEGRAL ToO on MAXI J0911-655 (70 ks)

2017:

- XMM (40 ks) and NuSTAR (20 ks) ToO on IGR J17329-2731
- INTEGRAL ToO observation of MAXI J1535-571 (170 ks)
- NuSTAR (40 ks) ToO on IGR J16597-3704

2018:

- INTEGRAL ToO on MAXI J1820+070 (170 ks)
- INTEGRAL ToO on IGR J17379-3747 (50 ks)
- INTEGRAL ToO on Swift J1756.9-2508 (50 ks)
- NuSTAR observation of IGR J17591-2342 (40 ks)
- XMM observations of IGR J16479-4514 (30 ks), IGR J16328-4726 (30 ks), AXJ1949.8+2534 (30 ks), IGR J18483-0311 (30 ks), SAX J1818.6-1703 (30 ks), IGR J16418-4532 (30 ks), IGR J11215-5952 (30 ks), IGR J18462-0223 (30 ks)

2019:

- XMM observations of several SFXTs

2020:

- XMM monitoring program of all SFXT sources

2022:

- XMM monitoring program of all SFXT sources

2023:

- NuSTAR 30 ks observation of the SyXB IGR 16194-2810
- NICER 45 ks observation on the HMXB 4U1538-522

- XMM monitoring program of all SFXT sources

2024:

- NuSTAR 80 ks observation of the SyXB 3XMM J181923.7-170616

A number of successful target-of-opportunity observations were obtained throughout the period 2008 – present. These programs are listed [on-line](https://www.swift.psu.edu/toop/summary.php) at: <https://www.swift.psu.edu/toop/summary.php>

Publications

I have authored over 1000 entries in the Astrophysical Database System (ADS). All publications can be accessed through ADS at the following link:

https://ui.adsabs.harvard.edu/tugboat/classicSearchRedirect?db_key=AST&db_key=PRE&qform=AST&arxiv_sel=astro-ph&arxiv_sel=cond-mat&arxiv_sel=cs&arxiv_sel=gr-qc&arxiv_sel=hep-ex&arxiv_sel=hep-lat&arxiv_sel=hep-ph&arxiv_sel=hep-th&arxiv_sel=math&arxiv_sel=math-ph&arxiv_sel=nlin&arxiv_sel=nucl-ex&arxiv_sel=nucl-th&arxiv_sel=physics&arxiv_sel=quant-ph&arxiv_sel=q-bio&sim_query=YES&ned_query=YES&adsobj_query=YES&aut_logic=SIMPLE&obj_logic=OR&author=%2Bbozzo%2C+e.%0D%0A-Franceschet&object=&start_mon=&start_year=2005&end_mon=&end_year=&ttitle_logic=OR&ttitle=&txt_logic=OR&text=&nr_to_return=20000&start_nr=1&jou_pick=ALL&ref_stems=&data_and=ALL&group_and=ALL&start_entry_day=&start_entry_mon=&start_entry_year=&end_entry_day=&end_entry_mon=&end_entry_year=&min_score=&sort=SCORE&data_type=SHORT&aut_syn=YES&ttitle_syn=YES&txt_syn=YES&aut_wt=1.0&obj_wt=1.0&ttitle_wt=0.3&txt_wt=3.0&aut_wgt=YES&obj_wgt=YES&ttitle_wgt=YES&txt_wgt=YES&ttitle_sco=YES&txt_sco=YES&version=1

Seminars & Lectures

10.02.2006: University of Colorado at Boulder (USA) - "Details of disk accretion on magnetized neutron stars"

30.11.2007: CEA – Service D'Astrophysique, Saclay, Paris (France) - "On the propeller effect of magnetic neutron star"

13.11.2008: ISDC – Geneva (Switzerland): "Hunting for magnetars in binary systems. The case of supergiant fast X-ray transients"

23.01.2012: IAAT, Tuebingen (Germany): "Wind accretion in extreme X-ray binaries: the case of Super Giant Fast X-ray Transients"

11.03.2015: NYUAD, New York University at Abu Dhabi (Emirates): "Sometimes too faint, sometimes too luminous: the paradigm of Supergiant Fast X-ray Transients"

22.08.2017: Institut für Physik und Astronomie, Universität Potsdam: "Connecting accretion mechanisms in high mass X-ray binaries and clumpy massive star wind properties: where do we stand?"

05.11.2020: ISSI Game Changer Seminars: "INTEGRAL – The Extreme Universe"

27.04.2023: Lecture to Irish students (Department of Astronomy, University of Geneva): "The Making of a Space Mission"

16.11.2023: Dublin College University: "Probing massive star winds with SgXBs: current status, recent efforts, and future perspectives"

24.04.2024: Lecture to Irish students (Department of Astronomy, University of Geneva): "The Making of a Space Mission"

16.05.2024: Lecture at the IBWS summer school (Cheb, Czech Republic): "The Making of a Space Mission"

Conference organization and participation

III CNOC, 9-11 December 2003, Monte Porzio Catone (Rome, Italy)

Interacting Binaries, 4-10 July 2004, Cefalù, Sicilia (Italy)

IV CNOC, 23 - 25 November 2005, Padova (Italy) (Poster: A Model of Spin-Up/Spin-Down transitions in accreting X-ray Binaries)

The Multicolored Landscape of Compact Objects and their Explosive Origins: Theory vs Observation, Cefalù, Sicily (Italy), June 11-24 2006 (Oral Contribution: On the propeller effect of rapidly rotating magnetic neutron star: a new limiting condition)

V CNOC, 11-14 September 2007, San Vito lo Capo (TP, Italy) (Oral Contribution: X-ray eclipse time delays in 4U 2129+47)

National school of Astrophysics: FUNDAMENTAL PHYSICS USING COMPACT OBJECTS AND PULSARS SCIENCE WITH ALMA: THE COOL SIDE OF THE UNIVERSE, May 20-27 2007 (Italy)

The X-ray Universe, Granada (Spain), May 27-30 2008 (Oral Contribution: X-ray eclipse time delays in 4U 2129+47, grant support by ESA and ESA education)

7th INTEGRAL Workshop, Copenhagen (Denmark), Sept. 8-11 2008 (Oral Contribution: Are there Magnetars in HMXBs? The case of Supergiant Fast X-ray Transients, grant support by DTU and IASF-INAF)

2th Simbol-X symposium, Paris (France), 2008 December 2-5 (Poster: IGRJ1647-4514: the first eclipsing supergiant fast X-ray transients?)

Cnoc VI, Pula (Cagliari, Italia), 2009 September 22-25 (Oral Contribution: The first orbital monitoring of SAXJ1818.6-1703 with Swift)

ISSI meeting on "Strong gravitational field and ultra-dense matter in neutron stars", ISSI, Bern (Switzerland), 18-22 January, 2010.

Saas-fee Course, 14-20 March 2010, Les Diablerets, Switzerland (Oral contribution: The INTEGRAL view of the HMXBs)

XIX SIGRAV Conference on General relativity and Gravitational Physics, Scuola normale superiore di Pisa, Pisa (Italy), 27 September - 1 October 2010 (Oral contribution: Accretion processes in neutron star X-ray binaries)

8th INTEGRAL Workshop, 27 - 30 September 2010 Dublin, Ireland (Oral contribution: XMM-Newton observations of the supergiant fast X-ray transients XTEJ1739-302, IGRJ08408-4503 and IGRJ18410-0535)

ISSI meeting on "Strong gravitational field and ultra-dense matter in neutron stars", ISSI, Bern (Switzerland), 2011 March 28 - April 1

The X-ray Universe 2011, Berlin, Germany, 27 - 30 June 2011 (Oral contribution: XMM-Newton observation of IGRJ18410-0535: the ingestion of a massive clump by a supergiant fast X-ray transient).

The Extreme and Variable High Energy Sky, Chia Laguna, Italy, 21-23 September 2011 (Oral contribution: LOFT, the large observatory for X-ray timing)

The first LOFT Science Meeting, Amsterdam, The Netherlands, 26-28 October 2011 (Chair of a session, part of the SOC)

COSPAR, Mysore, India, 14-22 July 2012 (Oral contribution: Observing supergiant fast X-ray transients with LOFT; Solicited talk: LOFT - the Large Observatory For X-ray Timing; travel grant support from the CSR, Switzerland).

Half a Century of X-ray Astronomy, Mykonos, Greece, 17-21 September 2012 (Invited talk: LOFT - the Large Observatory For X-ray Timing).

The second LOFT Science Meeting, Toulouse, France, 24-27 September 2012 (Chair of a session, part of the SOC)

9th INTEGRAL workshop, Paris, France, 15-19 September 2012 (Oral contribution: XMM-Newton and Swift observations of XTEJ1743-363; Poster contribution: LOFT – The Large Observatory For X-ray Timing)

X-ray Binaries 13, Bormio, Italy, 14-18 January 2013 (Talk on LOFT – technical aspects of a new ESA M3 space mission design)

ISSI Meeting on “Unified View of Stellar Winds in Supergiant High Mass X-ray Binaries”, Bern, Switzerland, 18-22 February 2013 (team member; 3 talks on wind accretion in Supergiant Fast X-ray Transients and recent observational results from XMM-Newton)

Spectral/timing properties of accreting objects: from X-ray binaries to AGN, 3-5 April 2013, ESAC Madrid, Spain (Member of the SOC, Poster contribution on LOFT – The Large Observatory for X-ray Timing)

Physics at the Magnetospheric Boundary, 25-28 June 2013, Geneva, Switzerland (main organizer, chair of the SOC and LOC)

EWASS 2013, 8-13 July 2013, Turku, Finland (main organizer of the special session on LOFT; chair of the LOC and SOC)

AXRO – X-ray Optics meeting, 9-12 December 2013, Prague, Czech Republic (Invited talk: LOFT, the Large Observatory for X-ray Timing)

ISSI Meeting on “Unified View of Stellar Winds in Supergiant High Mass X-ray Binaries”, Bern, Switzerland, 17-21 February 2014 (team member; talk on wind accretion in Supergiant Fast X-ray Transients)

The JEM-EUSO collaboration meeting, 9-13 June 2014, Mondello, Italy (Talk on the Laser and Pointing system developments at the University of Geneva)

The Unquiet Universe, 9-14 Jun 2014, Cefalu, Italy (Invited talk: X-ray variability in High Mass X-ray Binaries)

Outflows from Massive Stars Symposium at the EWASS 2014, 30 June – 4 July 2014, Geneva, Switzerland (main organizer, chair of the LOC and SOC; Talk on “Clumpy accretion in Supergiant Fast X-ray Transients)

10th INTEGRAL Workshop - A Synergistic View of the High Energy Sky, 15-19 September 2014, Annapolis, MD, USA (Talk on the “Long-term soft X-ray characterization of SFXTs”).

ISSI Meeting on “The Disk-magnetosphere Interaction Around Transitional Millisecond Pulsars”, Bern, Switzerland, 2-6 March 2015 (team member; talk on low level accretion on transitional millisecond X-ray pulsars)

EWASS 2015, 22-26 June 2015, Tenerife, Spain (SOC member, Talk “On the low level X-ray emission of transitional millisecond pulsars)

Paving the way to multi-wavelength Astronomy, 13-17 July 2015, Leiden, The Netherlands (Chair of the Multi-wavelength observation strategies session)

The first scientific conference dedicated to the Athena X-ray observatory, 8-10 September 2015, Madrid, Spain (invited talk on “Report of the SWG3.3 activities and related science requirements”)

CNOC IX, 22-25 September 2015, Rome, Italy (Invited Talk: “Athena: the Advanced Telescope for High-ENergy Astrophysics”)

INTEGRAL 2015 workshop, 5-9 October 2015, Rome, Italy (Invited talk: “High Mass X-ray binaries: a review”)

ISSI Meeting on “Unified View of Stellar Winds in Supergiant High Mass X-ray Binaries”, Bern, Switzerland, 15-19 February 2016 (team member; 3 talks on wind accretion in Supergiant Fast X-ray Transients and recent observational results from XMM-Newton)

SPIE, Edinburgh, United Kingdom, 27 June–1 July 2016 (Talk: “The Euclid/VIS shutter unit”; Poster: “The Athena X-IFU filter wheel and filters development”)

11th INTEGRAL Conference - Gamma-Ray Astrophysics in Multi-Wavelength Perspective, Utrecht, The Netherlands, 10-14 October 2016 (Talk: “Multi-wavelength observations of IGR J17544-2619 from quiescence to outburst”)

7 years of MAXI: Monitoring X-ray transients, Wako, Japan, 5-7 December 2016 (Talk: Monitoring Supergiant Fast X-ray Transients with Swift and XMM-Newton)

High Throughput X-ray Astronomy in the eXTP Era, Rome, Italy, 6-8 February 2017 (Chair of the LOC and member of the SOC)

EWASS2017, Prague, Czech Republic, 26-30 June 2017 (Co-organizer of the S10 event: “Properties and evolution of accreting compact objects in low and high mass X-ray binaries”)

The Power of X-ray Spectroscopy, Warsaw, Poland, 6-8 September 2017 (Member of the SOC)

THESEUS Workshop 2017, Naples, Italy, 5-6 October 2017 (Talk on “The THESEUS ground segment” and on “The eXTP mission”).

The *INTEGRAL* Symposium 2017, Venice, Italy, 15-20 October 2017 (Talk on “Latest results on Supergiant Fast X-ray Transients”)

CNOC X, Padova, Italy, 12-15 December 2017 (Invited talk on “Neutron Stars in XRBs”)

The challenge of transitional millisecond pulsars, Rome, Italy, 21-23 March 2018 (Talk on “the low level accretion of transitional millisecond X-ray pulsars”)

eXTP Science Workshop, Xiamen, China, 16-18 May 2018 (talk on “Observatory science with eXTP: an overview” and on “EU ground segment contributions to eXTP”, member of the SOC)

XMM-Newton 2018 Science Workshop, Madrid, Spain, 13-15 July 2018 (SOC member; talk on “IGR J17329-2731: the birth of a symbiotic X-ray binary”)

Fifteenth Marcel Grossmann Meeting, Rome, Italy, 1-7 July 2018 (Co-chair of the session on "Future missions for high-energy astrophysics")

COSPAR 2018, Pasadena, California, USA, 16-21 July 2018 (talk on "IGR J17329-2731: the birth of a symbiotic X-ray binary")

IAU Symposium 346 "High-mass X-ray binaries: illuminating the passage from massive binaries to merging compact objects", Wien, Austria, 27-31 August 2018 (Co-organizer of the symposium; talk on "IGR J17329-2731: the birth of a symbiotic X-ray binary")

The second scientific conference dedicated to the Athena X-ray observatory, Palermo, Italy, 24-27 September 2018 (Invited talk: "Activities of the Athena SWG3.3")

The Athena Multi-messenger Workshop, Alicante, Spain, 27-29 November 2018 (talk: "Synergies between Athena and THESEUS on Galactic sources")

INTEGRAL looks AHEAD to multi-messenger Astrophysics, Geneva, Switzerland, 11-15 February 2019 (co-organizer)

PHAROS Conference 2019: the multi-messenger physics and astrophysics of neutron stars, Barcelona, Spain, 22-26 April 2019 (SOC member)

New Trends in High-Energy Physics, Odessa, Ukraine, 14-18 May 2019 (Invited talk: "THESEUS: a candidate ESA M5 mission")

Multi-frequency Behavior of High Energy Cosmic Sources – XIII, Palermo, Italy, 3-8 June 2019 (Invited talk: "X ray transients from INTEGRAL to THESEUS and eXTP")

EWASS 2019, Lyon, France, 24-28 June 2019 (co-organizer of a special session on GRB & Cosmology)

Cospar, Herzliya, Israel, 4-8 November 2019 (Invited talk on "THESEUS an ESA M5 mission candidate")

ESA Workshop on Multi-Messenger Astrophysics, Madrid, Spain, 19-22 November 2019 (Invited talk on "THESEUS an ESA M5 mission candidate")

AXRO Conference, Prague, Czech Republic, 4-6 December 2019 (Invited talk on "THESEUS an ESA M5 mission candidate")

eXTP development in Spain, Barcelona, Spain, 20-22 January 2020 (Invited talk on "eXTP observatory science: persistent & transient HMXBs")

Swiss Space Days, Virtual event, 9-10 November 2020 (Invited talk on "Space activities at the Department of Astronomy, University of Geneva")

ISSI Meeting on "Feeding the spinning top: Spin evolution of accretion-powered pulsars in high-mass X-ray binaries", Bern, Switzerland, 13-17 September 2021 (team member; several talks on wind-fed X-ray binaries)

PHAROS Conference, Rome, Italy, 16-20 May 2022 (Invited talk on "Wind-fed neutron star X-ray Binaries")

NuSTAR Conference, Cagliari, Italy, 20-22 June 2022 (Contributed talk on "The Symbiotic X-ray binaries IGR J17329-2731, Sct X-1, and 4U 1700+24")

eXTP Special Session at EWASS 2022, Valencia, Spain, 27 June 2022 (Invited talk on "Report of the eXTP Observatory Science Working Group")

Multi-Messenger Astrophysics Workshop (MMAW), EGO, Italy, 10-12 October 2022 (Invited talk on “X- and Gamma-ray facilities of this decade”)

INTEGRAL 20 years Anniversary Conference, ESA/ESOC, Germany, 17-21 October 2022 (Contributed talk: “Probing accretion environments and stellar winds with the neutron stars in supergiant high-mass X-ray binaries”)

Technical Workshop for the Italian Day of Space in Switzerland – Space technology and sustainability: a challenge for the future, EPFL, Lausanne, Switzerland, 16 December 2022 (Invited talk: “At the edge of technology: developments of space instruments for Astronomy research between Switzerland and Italy”)

IBWS, 23-25 May 2013, Karlovy Vary, Czech Republic (Invited talk: “THESEUS mission and the newly developed INTEGRAL off-line science data analysis system”)

Multifrequency Behaviour of High Energy Cosmic Sources, 12-17 June 2023, Palermo, Italy (Invited talk: “Supergiant Fast X-ray Transients (SFXT) - A Review”)

The First Vasto Accretion Meeting, Vasto, Italy, 19-23 June 2023 (Member of the Science Organizing Committee)

From dormant to ultra-luminous compact objects in X-ray binaries (EWASS 2023), 14 July 2023, Krakow, Poland (Invited talk: “Observational studies of compact objects in X-ray binaries at different accretion regimes”)

Winds Throughout the Universe, 11-13 October 2023, Annapolis (MD), USA (Contributed talk: “Wind-fed High Mass X-ray Binaries: Extreme Accretion Phenomena”)

American Astronomical Society Meeting, GR SAG meeting, online, 9 January 2024 (Invited talk: “International Context”)

XRISM Science Data Analysis Exploitation Workshop, 12-14 February 2024, Geneva, Switzerland (LOC chair)

XMM2Athena conference, 26-29 February 2024, IRAP, Toulouse, France (Talk: “The THESEUS mission”)

The eventful life of massive star multiples, 15-19 July 2024, Liege, Belgium (SOC member)

XMM-Newton Workshop 2024 “X-ray Mysteries of Neutron Stars and White Dwarfs”, 5-7 June 2024, Madrid, Spain (Talk: “Supergiant Fast X-ray Transients: status and future perspectives”)

Quantum Gravity phenomenology in the Multi-Messenger Era, 15-19 July 2024, Madrid, Spain (Invited talk: “The future of gamma-ray experiments”)

SPIE, 16-21 June 2024, Yokoama, Japan (Talk: The THESEUS space mission concept)