

# ANNA LIA LONGINOTTI CURRICULUM VITAE

## **Current Post**

**Associate Professor (Titular A)**  
**Instituto de Astronomía**  
**Universidad Nacional Autónoma de México**

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## **PERSONAL DETAILS**

**Born:** 22/08/1976 en Alghero (Italia)

**Nationality:** Italian, with permanent residence in Mexico

**Languages:** Italian (mother language), English, Spanish

## **1) EDUCATION**

**Ph.D in Physics (30/04/2006) Imperial College London UK;**

**Supervisor: Prof. K. Nandra**

Thesis: “Relativistic signatures of black holes in the X-ray emission of Active Galactic Nuclei”

**M.Sc in Astronomy (15/03/2002) Università di Bologna, Italia;**

**Supervisors: Dr. M. Cappi, Dra. S. Pellegrini**

Thesis: “Studio di righe relativistiche nello spettro X di IRAS13349+2438 con il satellite XMM-Newton”

## **2) EMPLOYMENT HISTORY**

September 2015- November 2020

**Tenure Fellow (Catedratic) CONACyT for the HAWC (High Altitude Water Cherenkov) Gamma-Ray Observatory at INAOE (Instituto Nacional de Astrofísica, Óptica y Electrónica, Puebla)**

September 2014 to August 2015

**1 yr sabbatical visit at IA-UNAM**

July 2011 to August 2014

**ESA (European Space Agency) within Aurora Technology: Community Support Scientist within the XMM-Newton Science Operation Centre (ESAC, Madrid, Spain)**

January 2009 to July 2011

**Postdoctoral Research Scholar at MIT Kavli Institute for Astrophysics and Space Research**  
within the Chandra High Energy Transmission Grating (HETG) Group  
(Massachusetts Institute of Technology, Cambridge, US)

October 2005 to October 2008

**ESA Postdoctoral Research Fellow within the XMM-Newton Science Operation Centre**  
(ESAC, Madrid, Spain)

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## 3) PROFESSIONAL EXPERIENCE HIGHLIGHTS

- I. **Published >100 scientific papers in refereed journals (14 as first author, 54 within the HAWC collaboration).** Total number of citations: 6,429 (note that 2698 citations are to the paper “Multi-Messenger Observation of a binary Neutron Star merger”, with 3600 co-authors), H-index: 32.  
**Research area:** High-energy Astrophysics, Active Galactic Nuclei (AGN), Outflows and Diagnostic from Photoionised Plasma, X-ray spectroscopy, Accretion Processes in Compact Objects, Cosmic Feedback, AGN survey and evolution, Black Hole Growth, Multi-Messenger Astrophysics
- II. **Wide experience in presenting scientific results in international meetings** (> 20 oral, 6 invited reviews, and >10 poster contributions), seminars and colloquia (Sections 8 and 9)
- III. **Human Resources:** Students supervision (6 graduated: 4 M.Sc and 2 Ph.D), plus 3 Ph.D students currently supervised, (Section 5); Supervision of postdoctoral associate Quentin Salomé within the CONACyT “Ciencia Basica” CB-2016-286316
- IV. **Teaching experience:** 7 courses on High-Energy Astronomy for INAOE Master students (Section 4) 2 M. Sc. courses in the IA-UNAM (Section 4)
- V. **Duties at UNAM:** Organization of weekly science seminars for the Department of Extra-Galactic Astronomy; member of the committee for the interviews to perspective Ph.D students; member of the Commission for Students Services
- VI. **Extragalactic Working Group Coordinator (1) and Publication Committee member (2) within the HAWC Collaboration** <https://www.hawc-observatory.org/collaboration/> : (1) coordination of the scientific analyses that are carried out by HAWC members on extra-galactic topics, review and approval of technical notes, organization of biweekly teleconferences, monthly report on the group's activities in front of the Tech HAWC Board, and semestral report at the general meeting that the HAWC Collaboration holds every 6 months; (2) The PubCom supervises the publication procedure of all HAWC papers: internal referees selection, review of all articles, facilitation and mediation when a conflict or problem arises that may stop the regular publication process.
- VII. **Experience in Community Support and Science Operations for ESA XMM-Newton X-ray Observatory:** mission planning and scheduling; helpdesk; phase II of accepted proposals; documentation; calibration and monitoring of the scientific instruments; software testing; public outreach; events organization

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## VIII. Regularly served and invited as reviewer and chair in Peer Reviews and Time Allocation

### Committees::

1. Panelist “AGN and Extragalactic Surveys” **Chandra (2008, 2011)**
2. “**Pundit** in Big Project Panel” **Chandra 2020**
3. **Chair** of “AGN and Extragalactic Surveys” panel **Chandra, 2016**
4. Panelist “Active Galactic Nuclei and Black Holes” **Swift (2010, 2019)**
5. Panelist “Active Galactic Nuclei for **XMM-Newton (2016, 2017)**
6. Panelist “Massive Black Holes” **Hubble Space Telescope (2019)**
7. Panelist “High Redshift Universe” **Large Millimeter Telescope (LMT, 2022)**
8. External Panelist in “Massive Black Holes” panel **Hubble Space Telescope (July 2023)**

## IX. Highly successful record in preparing observing proposals (Section 6)

X. **Referee of scientific papers** for Monthly Notice of the Royal Astronomical Society (MNRAS), The Astrophysical Journal (ApJ), Nature Astronomy, Frontiers (2-3 papers per year)

XI. **Referee of funding proposals** for CONACyT (Mexican funding and postdoctoral federal grants), UNAM University research grants (PAPIIT) and for research projects on theory, data analysis and simulations in the fields of High-Energy Astrophysics and Astro-Particle Physics promoted by Agenzia Spaziale Italiana (ASI), the Istituto Nazionale di Fisica Nucleare (INFN) and the Istituto Nazionale di Astrofisica (INAF)

## XII. Science Meetings organization

- XMM-Newton 2012 Science Workshop (Local Organizing Committee member )  
[http://xmm.esac.esa.int/external/xmm\\_science/workshops/2012\\_science](http://xmm.esac.esa.int/external/xmm_science/workshops/2012_science)
- ESAC Faculty “Accretion” workshop 2013 (Local Organizing Committee member)  
<http://www.sciops.esa.int/index.php?project=CONF2013&page=ACCRETION2013>
- Observations and Theory of Quasar Outflows, Lorentz Center, The Netherlands, 2017  
**(PI of competitive proposal to Lorentz Center and Science Organization Committee Chair)**  
<http://www.lorentzcenter.nl/lc/web/2017/895/info.php3?wsid=895&venue=Snellius>
- HAWC Collaboration Meeting 2017, Cocoyoc, Morelos (MX)  
(Local Organizing Committee member)
- Congreso Nacional de Astronomía, Tijuana, Octubre 2021  
(member of the Science Organizing Committee)
- IAU Symposium n.378 “Black hole winds at all scales”, Haifa, Israel, March 12-16 2023  
(Co-chair en el SOC) <https://phsites.technion.ac.il/iaus378/>
- High Resolution X-ray Spectroscopy: a Chandra Workshop, Cambridge (US) August 1-3 2023  
(Member of the Scientific Organizing Committee) <https://cxc.harvard.edu/cdo/hrxs2023/>

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## XIII. Member of international collaborations

- **HAWC (High Altitude Water Cherenkov Gamma Ray Observatory)**

<https://www.hawc-observatory.org/>

- **SUBWAYS (Supermassive Black Holes Winds in the X-rays)**

<https://marcellabrusa.wixsite.com/subways2019>

- **ESTALLIDOS (StarBurst Galaxies)**

<http://research.iac.es/proyecto/estallidos/>

## XIV. Short-term funded visits in international institutes

- March 2017 1 week at Universidad Autonoma de Madrid (hosted by SELGIFS to work with Dr. Yago Ascasibar)
- June 2017 1 week at Massachusetts Institute of Technology (to work with Dr. Mike Nowak and Dr. Hermann Marshall)
- August 2017 1 week at ESA-ESTEC, The Netherlands (hosted by ESTEC Faculty to work with Dr. Matteo Guainazzi)
- December 2018 10 days visit to IAPS-INAF and INAF-Osservatorio Astronomico Monteporzio, Rome (to work with Dr. F. Panessa and Dr. F. Nicastro)
- May 2019 2 weeks at ESA-ESAC, Madrid (hosted by ESAC-Faculty to work with Dr. Michael Parker, Dr. Norbert Schartel and Dr. Maria Santos-Lleo)
- 14 January-6 March 2023 7 weeks at ESA-ESAC, Madrid (hosted by ESAC-Faculty Dr. Maria Santos-Lleo)

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## 4) TEACHING

### I. Lecturer of High-Energy Emission of Extragalactic Objects for INAOE Master students

#### 1. Astrofísica Extragaláctica II Periodo III

- 2016 (with Vahram Chavushyan and Yair Krongold)
- 2017 (with Vahram Chavushyan)
- 2018 (with Vahram Chavushyan and Alberto Carramiñana)
- 2019 (with Vahram Chavushyan and Alberto Carramiñana)

#### 2. Temas Selectos Periodo III

- June 2016 (with Vahram Chavushyan)
- 2017 (with Vahram Chavushyan and Omar Lopez-Cruz)
- 2018 (with Vahram Chavushyan)

### II. 3rd Workshop de Radioastrofísica (INAOE, June 2018): participated as “asesor de proyecto”

### III. Temas Selectos de Astrofísica, Maestría IA-UNAM

- Semester 2022-1 Optional course on Active Galaxies (with Dr. A. Negrete)
- Semester 2023-1 Optional course on Active Galaxies (with Dr. Y. Krongold)

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## 5) STUDENTS TRAINING

### I. Current students under supervision (3):

1. **Fernando Ureña Mena (INAOE, inicio Doctorado 2020)** “Estudio multifrecuencia de núcleos galácticos activos emisores en altas energías” Co-Supervisor with A. Carramiñana y D. Rosa Gonzalez (INAOE)
2. **Omar Segura-Montero (IA-UNAM, inicio Doctorado 2020)** “Estudio de vientos de alta velocidad emitidos por Nucleos Galactico Activos en rayos-X” Co-Supervisor with Y. Krongold (IA-UNAM)
3. **Miriam Gudiño-Yañez (IA-UNAM, inicio Doctorado 2020)** “X-ray view of polarized Seyfert 1 Galaxies” Co-Supervisor with E. Jimenez-Bailón (ESAC)

### II. Graduated Master and Ph.D students: (6):

- 1) **Nuria Fonseca-Bonilla, Universidad Complutense de Madrid, M.Sc.Thesis defended in 2008**  
Title: “Distribuciones Espectrales de Energía de Núcleos Galácticos Activos observados por el satélite XMM-Newton” Supervisor (with M. Mas-Hesse, Centro de Astrobiología, INTA-CSIC, Madrid and M. Guainazzi, European Space Agency)
- 2) **Tobias Beuchert, University Erlangen-Nuremberg, Germany, M.Sc Thesis defended in 2013**  
Title: “Radio-Loud and Radio-Quiet AGN — Single Dish Radio Polarimetry and X-ray Variability Study of Polar Scattered Seyfert 1 Galaxies” Co-supervisor
- 3) **Damien Coffey, Trinity College, Dublin, Ireland, M.Sc Thesis defended in 2014**  
On the X-ray spectral variability of the Seyfert 1 AGN H0557-385. Supervisor
- 4) **Fernando Ureña-Mena INAOE, M.Sc Thesis defended in August 2020**  
“Estudio de radiogalaxias observadas con HAWC y ajuste de su distribución espectral de energía a modelos teóricos de emisión para la determinación de parámetros físicos” Co-Supervisor with A. Carramiñana y D. Rosa Gonzalez (INAOE)
- 5) **Aitor Robleto-Orús Universidad de Guanajuato, Thesis defended in May 2022** “An optical and X-ray study of AGN-driven Outflows” Co-Supervisor with J. P. Torres-Papaqui (Guanajuato) y R. Ortega-Minakata (IRyA Morelia)
- 6) **Mauricio Elias Chavez INAOE, Thesis defended in November 2022)** “Estudio de fuentes de rayos-X de alto corrimiento al rojo a través del análisis de un campo profundo obtenido por el satélite XMM-Newton” Co-Supervisor with Y. Krongold (IA-UNAM) y D. Rosa-Gonzalez (INAOE)

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## **III. Served as “jury member” in Ph.D and M.Sc dissertations::**

1. Monica Cardaci (Ph.D Universidad Autonoma de Madrid, September 2010)
2. Erendira Huerta (Ph.D IA-UNAM, November 2012)
3. Victor Patiño Alvarez (Ph.D INAOE, 26 Octubre 2016)
4. David Sanchez Argüelles (Ph.D INAOE, 13 Julio 2017)
5. Angel Castro Castro (Ph.D UNAM Ensenada, 31 Agosto 2017)
6. David Fernandez Arenas (Ph.D INAOE, 27 Febrero 2018)
7. Alejandro Olguin Iglesias (Ph.D INAOE, 22 Junio 2018)
8. Emmaly Aguilar (Ph.D INAOE 28 Septiembre 2018)
9. Riccardo Middei (Ph.D, Università Roma TRE, Italia, Diciembre 2018)
10. Daniel Avila Rojas (Maestria, IA-UNAM, Enero 2019)
11. Natalia Osorio Clavijo (Maestria, IRyA UNAM, Morelia, Enero 2020)
12. Harold Peña-Herazo (Ph.D INAOE September 2020)
13. Isidro Ramirez-Ballinas (Ph.D, IA-UNAM, febrero 2021)
14. Carlos Lopez-Coba (Ph.D, IA-UNAM, febrero 2021)
15. Mabel Osorio- Archila (Maestria, IA-UNAM, enero 2022)
16. Karla Garnica-Luna (Maestria, IA-UNAM, abril 2022)

## **IV. Served as external member of Doctoral Committee (examen de candidatura a doctor)**

1. Ana Luisa González Morán, INAOE, exam in November 2016
2. Cesar Ivan Victoria-Ceballos, IRyA-UNAM, exam in February 2021
3. Miriam Eugenia Gudiño-Yañez, IA-UNAM, exam in June 2021
4. Ulises Reyes-Amador ( IRyA-UNAM, exam in November 2022)

## **V. Member of Doctoral Committee UNAM students (Comité Tutor)**

1. Jessica Luna-Cervantes (Doctorado, ingreso semestre 2021-2)
2. Jesus David Carrillo-Santamaria (Maestria, ingreso semestre 2022-1)
3. Mabel Osorio-Archila (Doctorado, ingreso semestre 2023-1)
4. Angel Arenas-Soni (Maestria, ingreso semestre 2023-1)

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## 6) AWARDED OBSERVING PROPOSALS

### I. As “Principal Investigator”

1. PI **LMT** Survey of molecular outflows in NLSy1 Galaxies (approved in 2020, 2021, 2022)
2. PI **IRAM-30m** 11hr Survey of molecular gas in Narrow Line Sy1 Galaxies (observed in May 2020)
3. PI **GTC-MEGARA IFU** on IRAS17020+4544 (observed in 2020)
4. Co-PI **Keck-Gemini IFU** on IRAS17020+4544 (2018, with F. Muller-Sanchez, Memphis University)
5. PI **IRAM-NOEMA** 8 hrs on Radio Loud NLSy1 IRAS17020+4544 (observed in 2017)
6. PI **GTM proposal** to observe molecular gas in NLSy1 (approved in 2017, priority A)
7. PI **Chandra-LETG Cycle 17** 250 ks to observe Radio Loud NLSy1 IRAS17020+4544
8. PI **XMM-Newton/HST-COS AO13**: 130 ks and 6 HST orbits, joint trigger of Seyfert 1 Mrk 335
9. PI **XMM-Newton AO12**: 150 ks, Radio Loud NLSy1 IRAS17020+4544, coordinated with VLBI
10. CO-PI **Chandra HETG GTO BLRG 3C445** (420 ks Cycle 13); Sy1 Mrk 841 (200 ks Cycle 12)
11. PI for **Magellan Telescope optical spectroscopy** of the Seyfert 1 H0557-385, Las Campanas (Chile)
12. PI **XMM-Newton AO9**: 90 ks, monitoring program of the Seyfert 1 H0557-385
13. PI **Swift Cycle 6 and 7**: long term monitoring of Seyfert 1 H0557-385
14. PI **XMM-Newton AO6**: 41 ks, Broad Line Radio Galaxy 3C 382

### II. As Co-investigator (only most recent years listed)

15. **NOEMA**, 2022 (PI Q. Salomé, “Connecting molecular and X-ray outflows in NLSy1 Galaxies”)
16. **GBT**, 2022 (PI Q. Salomé “A survey of atomic gas in NLSy1 galaxies with X-ray Ultra Fast Outflows”)
17. **XMM-Newton** 1.58 Ms, 2018: SUBWAYS (PI M. Brusa, 20 Quasars to observe black hole winds)
18. **HST-COS** 27 orbits, 2019: SUBWAYS (PI G. Kriss, 20 Quasars to observe black hole winds)
19. **VLA** 20.35 hrs, 2019: SUBWAYS (PI F. Panessa, 20 Quasars to observe black hole winds)
20. **HST-COS** 3 orbits, 2017 (PI Y. Krongold, UV wind counterpart in IRAS17020+4544)
21. **VLBI** 2014, 2017 (PI M. Giroletti, mapping of IRAS17020+4544)
22. **GTC** 2017, 2018 (PI Y. Krongold, optical imaging and spectroscopy of 1ES1553 field)
23. **GTC** 2018, 2019, 2020 (PI D. Rosa Gonzalez, Redshift and Environment of Extreme BL Lacs)
24. **GTM** (PI Y. Krongold, PG QSOs approved in 2017)

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## 7) FELLOWSHIPS, AWARDS and RESEARCH GRANTS

1. **CONACyT Proyecto de Ciencia Básica CB-2016-286316** “Estudio de vientos en Núcleos Galácticos Activos”, from 2018 includes a postdoctoral position covered by Q. Salomé at INAOE
2. **NASA grants associated to Swift Cycle 6 and Cycle 7 approved observing programs (2010, 2011)**
3. **MIT Kavli Institute Chandra-HETG Postdoctoral position (2008)**
4. **Extension of ESA Postdoctoral Research Fellowship (2006)**
5. **ESA Postdoctoral Research Fellowship (2005)**
6. **Research grant from the Royal Astronomical Society, UK (2004)**
7. **Research grant from the “Angelo Della Riccia” Foundation for Microphysics, Italy (January 2003, 2004, 2005)**

## 8) ORAL CONTRIBUTIONS GIVEN IN ASTRONOMY MEETINGS (6 invited talks from 2016 onwards)

1. **Multiphase AGN feeding and feedback II: Linking the Micro to Macro Scales in Galaxies, Groups and Clusters**, 20-24 June 2022, Seston (Italy) *Invited talk* “Dissecting an AGN-driven outflow from nuclear to galaxy-scale: the multi-color view of the NLSy1 Galaxy IRAS17020+4544”
2. **EAS 2022 (European Astronomical Society Annual Meeting) Symposium "Properties and impact of large-scale multiphase AGN outflows"** Valencia June 27-July 1st 2022 *Invited talk* “Dissecting an AGN-driven outflow from nuclear to galaxy-scale: an observational perspective on outflows launched by highly accreting AGNs”
3. **X-ray Astronomy 2019: Current challenges and new frontiers in the next decade 8-13 September 2019, Bologna** “Dissecting AGN feedback: the extraordinary multi-phase outflow in the Narrow Line Seyfert 1 IRAS17020+4544”
4. **“XXVI Congreso Nacional de Astronomía” (Puebla) October 2018, *Invited review*** “Ultra fast outflows, and their connection to accretion and ejection processes in AGNs”
5. **IAU Symposium n.342 “Perseus in Sicily: from black hole to cluster outskirts”** (Noto, Italy 13-18 May 2018) *Invited Review* on “Ultra fast outflows, and their connection to accretion and ejection processes in AGNs”

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- 6. The power of X-ray Spectroscopy**  
(Warsaw, Poland, 6-8 Septiembre 2017) *Invited Review* on “Active Galaxies Nuclei Outflows ”
- 7. LIV Congreso Nacional de Fisica (Leon)**  
Octubre 2016 “Observación en rayos X de vientos de alta velocidad y sus propiedades de retroalimentación en una galaxia Seyfert”
- 8. EWASS 2016 “European Week of Astronomy and Space Science”**  
4-7 July, Athens (Greece) *Invited Review* “Active Galaxies Nuclei X-ray Spectroscopy”
- 9. From the Dolomites to the event horizon: sledging down the black hole potential well**  
Sexten, 15-19 July 2013, Sexten, Italy “Emergence of an Outflow in the Seyfert Galaxy Mrk 335 revealed by XMM-Newton and HST”
- 10. 13th High Energy Astrophysics Division Meeting**  
7-11 April, Monterey, California “Emergence of an Outflow in the Seyfert Galaxy Mrk 335 Revealed by XMM-Newton and HST”
- 11. Spectral/timing properties of accreting objects: from X-ray binaries to AGN”**  
3-5 April 2013, ESAC, Madrid, Spain “Emergence of an outflow in the Seyfert Galaxy Mrk 335 revealed by XMM-Newton and HST”
- 12. High Energy Views of Galaxies and their Nuclei**  
8-11 November 2011, Tulum, Mexico “Hidden warm absorber in the Seyfert 1 Mrk 335: a high-velocity ionized wind uncovered by Swift and XMM-Newton”
- 13. High Energy View of Accreting Objects: AGN and X-ray Binaries**  
5-14 October 2010, Crete (Greece) “A test for obscuring Broad Line Region gas clouds in the Seyfert 1 Galaxy H0557-385”
- 14. COSPAR Meeting**  
19-25 July 2010 Bremen, Germany “The relativistic Iron Line in AGN: what is the driver, if any?”
- 15. New England Regional Quasar & AGN Meeting**  
18 May 2010 Boston University, MA, US “A test for obscuring gas clouds in the Seyfert 1 Galaxy H0557-385”
- 16. High resolution X-ray spectroscopy: past, present, future**  
15-17 March 2010, Utrecht, The Netherlands “Warm absorber and warm emitter in AGN”

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## **17. High resolution X-ray spectroscopy: towards IXO**

17-20 March 2009, MSSL Surrey, UK (solicited talk) “Photoionised gas in Seyfert 1 Galaxies revealed through emission lines in high resolution X-ray spectra”

## **18. The X-ray Universe 2008 Symposium**

May 2008, Granada, Spain “FERO (Finding Extreme Relativistic Objects): statistics of relativistic broad Fe K alpha lines in AGN”

## **19. The nuclear region, host galaxy and environment of active galaxies**

18-20 April 2007, Huatulco, Mexico “FERO (Finding Extreme Relativistic Objects): statistics of relativistic broad Fe K alpha lines in AGN”

## **20. Variable and Broad Iron Lines around Black Holes**

26-28 June 2006, ESAC, Madrid, Spain “Search for energy-shifted lines in the X-ray spectra of AGN in the XMM-Newton archive”

## **21. The Multicoloured Landscape of Compact Objects and their Explosive Progenitors: Theory vs Observation**

19-23 June 2006, Cefalu, Italy “Search for energy-shifted lines in the X-ray spectra of AGN in the XMM-Newton archive”

## **22. The X-ray Universe 2005**

26-30 September 2005, El Escorial, Spain “Energy-shifted lines in XMM-Newton EPIC spectra of Seyfert Galaxies”

## **23. La Natura Composita dei Nuclei Galattici Attivi, VI congresso Nazionale AGN**

25-28 May 2004, Volterra, Italy “XMM-Newton observations of iron line emission in quasars”

## **9) INVITED COLLOQUIA AND SEMINARS**

1. May 2009 European Space Astronomy Centre of ESA, Madrid: “X-raying Active Nuclei”
2. July 2010 Amsterdam University, The Netherlands: “FERO: Finding Extreme Relativistic Objects (Statistics of Relativistic Fe K lines in Type 1 AGN)”
3. January 2014 Instituto de Astronomia de la UNAM: “X-raying Active Nuclei”
4. June 2015 INAOE: “Revealing the inner region of Active Galactic Nuclei: an X-ray perspective”
5. March 2016 Instituto de Astronomia de la UNAM: “Feedback in a Seyfert Galaxy produced by a multi-component X-ray ultra fast wind: the case of IRAS17020+4544”

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6. April 2016 Osservatorio Astronomico di Cagliari, Italia: “Feedback in a Seyfert Galaxy produced by a multi-component X-ray ultra fast wind: the case of IRAS17020+4544”
7. May 2016 European Space Astronomy Centre of ESA, Madrid: “Feedback in a Seyfert Galaxy produced by a multi-component X-ray ultra fast wind: the case of IRAS17020+4544”
8. July 2016 SRON Utrecht, The Netherlands: “Feedback in a Seyfert Galaxy produced by a multi-component X-ray ultra fast wind: the case of IRAS17020+4544”
9. July 2017 Massachusetts Institute of Technology (Cambridge US): “AGN Feedback and clues from high resolution X-ray spectra”
10. March 2019 Nevada University (Las Vegas, USA): “Fast X-ray Winds and their relation with AGN Feedback”
11. May 2019 IRAM-Granada (España): “Dissecting AGN feedback: the extraordinary multi-phase outflow in the NLSy1 IRAS17020+4544”
12. June 2019 Space Telescope Science Institute (Baltimore, USA): Dissecting AGN feedback: the extraordinary multi-phase outflow in the NLSy1 IRAS17020+4544”

### 10) OUTREACH ACTIVITIES

1. XMM-Newton Image Gallery (2011-2014)
2. 16th Conference of Italian Researchers in the World - 9 de abril, Instituto de Cultura Italiano CDMX “The High-Altitude Water Cherenkov (HAWC) Gamma-Ray Observatory: observing the high energy sky through water. ”

#### International press releases

- 2016 European Space Agency: “A Milky Way twin swept by an ultra fast X-ray wind”  
[http://www.esa.int/Our\\_Activities/Space\\_Science/A\\_Milky\\_Way\\_twin\\_swept\\_by\\_an\\_ultra-fast\\_X-ray\\_wind](http://www.esa.int/Our_Activities/Space_Science/A_Milky_Way_twin_swept_by_an_ultra-fast_X-ray_wind)”
- 2016 Istituto Nazionale di Astrofisica (INAF, Italia): “Il ‘venticello’ che spegne le stelle”  
<http://www.media.inaf.it/2016/01/14/il-venticello-che-spegne-le-stelle/>
- 2018 University of Massachusetts Amherst “International Team of Researchers Uses the Large Millimeter Telescope to Observe a Powerful Molecular Wind in an Active Spiral Galaxy”  
<https://www.umass.edu/newsoffice/article/international-team-researchers-uses-large>  
<https://phys.org/news/2018-10-large-millimeter-telescope-powerful-molecular.html>