

# Roberto Gilli - Curriculum Vitae



## PERSONAL INFORMATION

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Date of birth: 25/01/1973 - Nationality: Italian

Istituto Nazionale di Astrofisica – Osservatorio di Astrofisica e Scienza dello Spazio (INAF - OAS) di Bologna  
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## CURRENT POSITION

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INAF— OAS  
Dirigente di Ricerca

## WORK EXPERIENCE

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2019 — 2024: Primo Ricercatore, INAF — OAS  
2017 — 2019: Ricercatore, INAF — OAS  
2005 — 2017: Astronomo, INAF — Osservatorio Astronomico di Bologna (OABo)  
2002 — 2005: Astronomo, INAF — Osservatorio Astrofisico di Arcetri, Firenze  
2001 — 2002: Postdoc at The Johns Hopkins University, Dept. of Physics and Astronomy, Baltimore, MD.

## EDUCATION AND TRAINING

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Jan 31, 2001: PhD degree in Astronomy at the Firenze University, thesis title: “*Obscured Active Galactic Nuclei and the synthesis models of the cosmic X-ray background*” (supervisors Prof. M. Salvati and Prof. F. Pacini)  
1998 — 2000: Postgraduate studies at the Firenze University  
Jul 22, 1997: Master Degree in Astronomy (110/110 cum laude), thesis title: “*The iron Ka line of AGN and the cosmic X-ray background*” (in Italian; supervisors Prof. G. Setti and Prof. A. Comastri)  
1992 — 1997: Undergraduate studies at the Bologna University

## Publications as of Nov 2025

More than 280 papers on refereed journals (22 as first author) that collected more than 25,000 (>2,100) citations. H-index = 83 (source ADS).

## Successful observing proposals as PI

- **19 successful observing programs as a PI at major astronomical facilities operating from the radio to the X-ray band** (plus participation to >50 observing programs as a co-I). A subsample is listed below:

2021: LBT(LUCI+SOUL), 6hr, “Star formation, AGN feedback, and galaxy assembly: the turbulent youth of a protocluster at  $z=1.7$ ”

2019: LOFAR, 8hr, “Galaxy formation, ICM heating and AGN feedback: the turbulent youth of a proto-cluster at  $z=1.69$ ”

2018: ALMA, Cycle 6, 10hr, “The Making of a local galaxy cluster: star formation and AGN feedback in a proto-cluster at  $z=1.69$ ”

2017: LBT(MODS+LUCI), 52hr, Strategic Program, “The wide and deep survey around J1030: an INAF-LBT legacy field”

2015: Chandra, Cycle 17, 500ks, Large Program, “QSOs at  $z=6$ : black hole growth and feedback in the early Universe”

2015: CFHT(WIRCAM), 6hr, “The large-scale environment of QSOs at  $z\sim6$ ”

2015: ALMA, Cycle 3, 5hr, “The early coevolution of galaxies and black holes”

2012: LBT/LBC, 2012A, 12hr, “Mapping the primordial environment of QSOs at  $z\sim6$ ”

2011: ALMA, Cycle 0, 0.1hr, “A laboratory to study BH-galaxy coevolution in the early Universe”

2009: Suzaku, AO3, 90ks, “Another Compton-thick AGN just around the corner”

2008: Chandra, Cycle 10, 80ks, “Luminous Compton-thick QSOs at  $z\sim1$ ”

## Seminars and colloquia

### **-24 seminars/colloquia at national and international institutes**

2025: National Observatory of Athens (online)

2024: University of Southampton, UK

2023: MoRe - ASI series (online)

2022: Harvard Smithsonian CfA, Cambdrige, MA, USA (online)

2020: National Observatory of Athens (online)

2017: Scuola Normale Superiore, Pisa, Italy

2017: SISSA, Trieste, Italy

2016: INAF - Istituto di Radio Astronomia, Bologna, Italy

2016: Yale University, New Haven, NJ, USA

2015: Harvard Smithsonian CfA, Cambdrige, MA, USA

2014: INAF - Osservatorio Astronomico di Roma, Italy

2014: INAF - Osservatorio Astrofisico di Arcetri, Italy

2011: Università La Sapienza, Rome, Italy

2011: Institute of High Energy Physics, Beijing, China

2010: Johns Hopkins University, Baltimore, MD, USA

2010: Goddard Space Flight Center, Greenbelt, MD, USA

2008: INAF – Osservatorio Astrofisico di Arcetri, Firenze, Italy

2008: INAF – Osservatorio Astronomico di Brera, Merate, Italy

2008: University of Innsbruck, Innsbruck, Austria

2008: European Southern Observatory, Garching, Germany

2003: Harvard Smithsonian CfA, Cambdrige, MA, USA

2002: Institute of Radio Astronomy, Bologna, Italy

2001: Osservatorio Astronomico di Brera, Milano, Italy

1999: RIKEN, Tokyo, Japan

## Invited participations at conferences

### **- 24 invitations as speaker/ moderator at national and international conferences** (plus 2 contributed talks per year on average)

2024: Invited talk at the workshop “Probing the Genesis of Supermassive Black Holes” (Tokyo, Japan, Nov 18-21)

2023: Invited talk at the conference ‘A journey through galactic environments (Porto Ercole, Italy, Sep 25-29)

2023: Invited talk at the workshop “HSC meeting 2023” (Bologna, Italy, May 24-25)

2020: Invited talk at the workshop “Getting ready to descend the slippery slope of multi-messenger cosmological black holes data” (Sexten, Italy, Feb 10-14)

2019: Invited talk at the “Memorial Symposium to Honor Riccardo Giacconi”, National Academy of Science (Washington D.C., USA, May 29-30)

2019: Invited talk at the workshop “Accretion History of AGN (AHA)” (Miami, FL, USA, Oct 17-19)  
 2018: Invited talk at the workshop “Accretion History of AGN (AHA)” (Miami, FL, USA, Oct 18-20)  
 2018: Invited talk at the workshop “The interstellar medium of high-z galaxies” MIAPP (Munich, Germany, Apr-May)  
 2017: Invited talk at the workshop “The remarkable life of a BCG” (Sexten, Italy, Feb 20-24)  
 2016: Invited review at the “12th AGN National Conference” (Napoli, Italy, Sep 26-29)  
 2015: Discussion panelist. “X-ray surveys of the hot and energetic Cosmos”, IAU focus meeting 6 (Honolulu, HI, USA, Aug 5-6)  
 2012: Discussion chair. “Illuminating the AGN/galaxy connection” workshop (Ringberg, Germany, Dec 3-5)  
 2012: Invited review. “X-ray astronomy: towards the next 50 years” conference (Milano, Italy, Oct 1-5)  
 2012: Concluding remarks. “Half a century of X-ray astronomy” conference (Mykonos, Greece, Sep 17-21)  
 2011: Invited talk at the conference “The Sun, the Stars, the Universe and General Relativity” (Beijing, China, Oct 11-15)  
 2011: Invited talk at the conference “Bridging electromagnetic astrophysics and cosmology with gravitational waves” (Milano, Italy, March 28-30)  
 2011: Invited talk at the conference “Present status and future prospects in X-ray astronomy” (Roma, Italy, March 14-16)  
 2010: Solicited talk at the conference “9th AGN National Conference” (Ferrara, Italy, May 24-27)  
 2009: Invited talk at the conference “X-ray astronomy 2009” (Bologna, Italy, Sep 7-11)  
 2008: Invited talk at the meeting “Exploring the hot Universe with IXO” (Garching, Germany, Sep 17-19)  
 2007: Invited talk at the “Journeè franco-italienne sur la recherche et cooperation” meeting (Marseille, Oct 19)  
 2006: Discussion chair (clustering session) at the workshop “Extragalactic X-ray surveys” (Boston, Nov 6-8)  
 2002: Invited review at the “6th AGN National Conference” (Como, Italy, Jun 11-14)  
 2002: Invited review at the 34th COSPAR meeting (Houston, TX, USA, Oct 10-19)

## Conference organizing committees

### - 18 participations to SOCs (listed below, 3 co-chaired), 6 participations to LOCs

2025: SOC co-chair of the workshop “High-z QSOs” (Bologna, Italy, Sep 15-17)  
 2025: SOC member of the conference “Peering through an opaque ISM” (Ferrara, Sep 1-5)  
 2024: SOC co-chair of the workshop “Galaxies and diffuse gas in high-z overdense environments” (Sexten, Italy, July 15-19)  
 2023: SOC co-chair of the workshop “High-z QSOs” (Barcelona, Spain, May 18-19)  
 2022: SOC member of the workshop “Hot Topics in Astrophysics” (Sexten, Italy, Jul 25-29)  
 2022: SOC member of the event “In Memory of Riccardo Giacconi - Dedicating the Sexten Center for Astrophysics to Riccardo Giacconi” (Sexten, Italy, Jul 25)  
 2022: SOC member of the COSPAR Meeting E1.11 “Supermassive Black Holes at High-z” (Athens, Greece, Jul 16-24)  
 2022: SOC member of the “14th AGN National Conference” (Firenze, Italy, May 23-27)  
 2020: SOC chair of the workshop “Technological advances in X-ray astronomy” (online, Jul 15-16) <http://cxb.oas.inaf.it/xtech20.html>  
 2019: SOC co-chair of the conference “X-ray astronomy 2019” (Bologna, Italy, Sep 8-13)  
 2019: SOC member of the workshop “Hot Topics in Astrophysics” (Sexten, Italy, Jul 15-19)  
 2017: SOC member of the “IV workshop on mm- and submm-astronomy in Italy” (Bologna, Italy, Nov 7-10)  
 2015: SOC member of the conference “Demographics of AGN from multi-wavelength surveys” (Chania, Greece, Sep 21-24)  
 2014: SOC member of the “11th AGN National Conference” (Trieste, Italy, Sep 23-26)  
 2014: SOC member, workshop “The first billion year of galaxies and black holes” (Sexten, Italy, June 30-July 4)  
 2012: SOC member of the workshop “The high-redshift Universe” (Bologna, Italy, Jun 5-6)  
 2009: SOC member of the workshop “The Wide Field X-ray Telescope” (Bologna, Italy, Nov 25-26)  
 2008: SOC member of the “8th AGN National Conference” (Torino, Italy, May 19-22)

## Teaching

### **- Frequent teaching at the Universities of Bologna and Ferrara**

2023: Lecture (2hrs) on new X-ray astrophysics mission concepts, Bologna University (UniBo)  
2022: Lecture (2hrs) on new X-ray astrophysics mission concepts, UniBo  
2021: Lectures (6hrs) on supermassive black holes for graduate students, Ferrara University (UniFe)  
2018: Lectures (6hrs) on supermassive black holes for graduate students, UniFe  
2016: Lectures (6hrs) on supermassive black holes for graduate students, UniFe  
2015: Lectures (5hrs) on high-redshift AGN for graduate students, UniBo  
2015: Lectures (6hrs) on supermassive black holes for graduate students, UniFe  
2008: Course on High-Energy Astrophysics (40hrs), UniFe  
2007: Lectures (4hrs) on clustering and the X-ray background for graduate students at UniBo  
2006: Lectures (4hrs) on X-ray AGN spectra and the X-ray background for undergrads at UniBo

### **Supervision activities**

#### **- 20 fellowships/studentships supervised (5 postdocs, 5 PhDs, 10 masters)**

### **Memberships in candidate evaluation / recruiting committees**

Referee for the Royal Society, Chilean National Science and Technology Commission, P4F MSCA Cofund program (FZU, Czech Republic), Swiss National Science Foundation, Research Executive Agency of the European Commission, Paris Region Fellowship Program (Ile-de-France Paris region). Members of selection committees for TI, TD, and AdR personnel in INAF. Referee for PhD thesis and/or dissertations at the Universities of Yale, Roma La Sapienza, Bologna, Ferrara, Geneva.

### **Memberships in observing time allocation committees**

Participation to Chandra, XMM, JWST, HST, Subaru, LBT/TNG time allocation committees, and to ALMA and ESO distributed peer reviews.

### **Memberships in international collaborations**

Member of the CDFS, COSMOS, STAR-X and AXIS collaborations

### **Management and leadership experience**

- Since 2022: Coordinator of the Objective 3-1 WP (High-z Protoclusters) in the STAR-X mission concept
- Since 2017: Coordinator of the 'J030 deep field' collaboration: <http://j1030-field.oas.inaf.it/team.html>
- 2007-2010: Coordinator of the 'High-z QSOs and survey' WP in the WFXT mission concept (8 members)

### **Appointments**

Since Mar 2022: Visiting Scientist at JHU Baltimore

Since Feb 2023: President of INAF National Scientific Committee 1 (CSN1) "Galaxies and Cosmology"

### **Editorial activities**

2010: Proceedings editor of the workshop "The Wide Field X-ray Telescope" (Bologna, Nov 25-26)

From 2001: Regular referee for A&A, MNRAS, ApJ, ApJL