

Curriculum Vitae of Roberto Gilli

Personal Data

Place and date of birth: Ferrara, January 25, 1973. Nationality: Italian
ORCID: 0000-0001-8121-6177

Education and Career History

Since 2005: Astronomer at INAF - Osservatorio Astronomico di Bologna (OABO)
2002 – 2005: Astronomer at INAF – Osservatorio Astrofisico di Arcetri, Firenze
2001 – 2002: Postdoctoral position at The Johns Hopkins University, Baltimore.
Jan 31, 2001: PhD degree in Astronomy at the Firenze University
1998 – 2000: Postgraduate studies at the Firenze University
Jul 22, 1997: Master Degree in Astronomy
1992 – 1997: Undergraduate studies at the Bologna University

Main research interests

Physics and evolution of Active Galactic Nuclei (AGN); BH/galaxy co-evolution; AGN and galaxy clustering; population synthesis models of the X-ray background; the high-redshift Universe

Relevant professional activities

Membership in time allocation committees

2017: Member of the Italian Time Allocation Committee for the LBT, TNG and REM
2016: Member of the Italian Time Allocation Committee for the LBT, TNG and REM
2015: Member of the Italian Time Allocation Committee for the LBT, TNG and REM
2014: Member of the Subaru Telescope TAC (category C-4)
2009: Member of the XMM-Newton OTAC, panel G1 (Cosmology, Extragalactic Deep Fields and Area Surveys) for the 9th Announcement of Opportunity (AO9)
2008: Member of the XMM-Newton OTAC, panel G1 for AO8
2008: Member of the Chandra OTAC, panel 13 (AGN) for observing Cycle 10
2005: Member of the XMM-Newton OTAC, panel E2 (AGN, Quasars, BL-Lac Objects & X-Ray Background) for AO5
2004: Member of the XMM-Newton OTAC, panel E2 for AO4

Panel review activities

2017: Referee for the Research Executive Agency of the European Commission
2017: Member of the PhD Dissertation Committee, Bologna University, Dept. of Physics and Astronomy
2017: Member of the PhD Selection Committee, Bologna University, Dept. of Physics and Astronomy
2016: Member of the PhD Dissertation Committee, Geneva University
2016: Referee for the Royal Society (UK)
2016: Referee for the Swiss National Science Foundation
2015: Referee for the Chilean National Science and Technology Commission
2015: Member of the PhD Dissertation Committee, Ferrara University, Dept. of Physics
2013: Member of the PhD Dissertation Committee, Ferrara University, Dept. of Physics

Conference organizing committees

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)
2011: LOC member of the workshop "X-ray astrophysics up to 511 keV" (Ferrara, Italy, Sep 14-16)
2010: LOC Chairman of the 9th AGN National Conference (Ferrara, Italy, May 24-27)
2009: SOC member of the workshop "The Wide Field X-ray Telescope" (Bologna, Italy, Nov 25-26)
2009: LOC member of the conference "X-ray 2009" (Bologna, Italy, Sep 7-11)
2008: SOC member of the 8th AGN National Conference (Torino, Italy, May 19-22)
2007: LOC member of the workshop "Simbol-X: the hard X-ray Universe in focus" (Bologna, May 14-16)

2004: LOC member of the 6th AGN National Conference (Volterra, Italy, May 25-28)

Seminars and colloquia

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 Center for Astrophysics, Cambridge, MA, USA
2014: INAF - Osservatorio Astronomico di Roma, Italy
2014: INAF - Osservatorio Astrofisico di Arcetri, Italy
2011: Universita' 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 Center for Astrophysics, Cambridge, MA, USA
2002: Institute of Radio Astronomy, Bologna, Italy
2001: Osservatorio Astronomico di Brera, Milano, Italy
1999: RIKEN, Tokyo, Japan

Invited contributions at international conferences

2017: Invited talk at the workshop "The remarkable life of a BCG", Sesto Pusteria, Italy, Feb 20-24
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: 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, 28-30 March
2011: Invited talk at the conference "Present status and future prospects in X-ray astronomy", Rome, Italy, March 14-16
2010: Solicited talk the conference "9th AGN National Conference", Ferrara, May 24-27
2009: Invited talk at the conference "X-ray astronomy 2009", Bologna, Sep 7-11
2008: Invited talk at the meeting "Exploring the hot Universe with IXO", Garching, Germany, Sep 17-19
2007: Talk. "Journée franco-italienne sur la recherche et coopération" meeting, Marseille, Oct 19
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.

Successful proposals as PI

2017: LBT(MODS+LUCI), 52hr, strategic program, "The wide and deep survey around J1030: an INAF-LBT legacy field"
2017: ALMA, Cycle 5, 12hr, C target, "The environment of early black holes: ALMA observations of a flagship field"
2015: Chandra, Cycle 17, 500ks, Large Program, "QSOs at $z=6$: black hole growth and feedback in the early Universe"
2015: LBT(LUCI), 2015, 8hr, "The brightest galaxy at the reionization epoch"
2015: CFHT(WIRCAM), 2015, 6hr, "The large-scale environment of QSOs at $z\sim 6$ "
2015: ALMA, Cycle 3, 5hr, C targets, "The early coevolution of galaxies and black holes"
2013: CFHT(WIRCAM), 2013, 6hr, "The large-scale environment of QSOs at $z\sim 6$ "
2013: LBT(MODS), 2013, 12hr, "The primordial environment of supermassive black holes: an LBC legacy"
2012: LBT(MODS), 2012B, 4hr, "High- z black holes in wide area surveys: a novel selection technique"
2012: LBT/LBC, 2012A, 12hr, "Mapping the primordial environment of QSOs at $z\sim 6$ "
2011: ALMA, Cycle 0, 1hr, C target, "A laboratory to study BH-galaxy coevolution in the early Universe"
2010: FORS@VLT, P87, 20hr, "X-ray emitting i-band dropouts: a shortcut to select QSOs at $z\sim 6$?"

2010: XMM, AO10, 80ks, “[Ne V]-selected heavily obscured QSOs at the epoch of the X-ray background”
2009: Suzaku, AO3, 90ks, “Another Compton-thick AGN just around the corner”
2008: Chandra, Cycle 10, 80ks, “Luminous Compton-thick QSOs at $z\sim 1$ ”
2006: Dolores@TNG, AOT13, 4hr, “Tracing an AGN cosmic filament at $z=0.3$ ”
2005: Chandra, Cycle 7, 150ks, “Tracing the X-ray cosmic web at $z=0.3$ ”

Large observing programs as co-I

2017: Chandra, 429ks, "A Reliable X-ray View of the First Quasars", PI N. Brandt
2015: XMM, 1.3Ms, "Going beyond COSMOS with the XMM-SERVS survey of W-CDF-S, XMM-LL. and ELAIS-S1", PI. N. Brandt
2014: Chandra, 1.25Ms "Black hole fingerprints from cosmic dawn to cosmic noon", PI G. Hasinger
2013: Chandra, 3Ms, "The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe", PI N. Brandt
2012: XMM, 300ks, "The XMM-ATLAS survey: AGN - star-formation coevolution", PI I. Georgantopoulos
2011: Herschel, 193.6 hr, “Herschel+CANDELS: Unraveling the physical processes that regulate star formation and AGN activity in ordinary galaxies at $z=2$ ”, PI M. Dickinson
2008: XMM, 3Ms, “The ultradeep survey in the CDFS: an XMM-Newton legacy”, PI A. Comastri
2007: Herschel, 362.6 hr, “The Great Observatories Origins Deep Survey : Far-Infrared Imaging with Herschel”, PI D. Elbaz
2006: Chandra, 1.8Ms, “The Chandra-COSMOS survey”, PI M. Elvis
2004: XMM, 1.5Ms, “The XMM-Newton wide field survey in the COSMOS field”, PI G. Hasinger

Other Activities

2010: Proceedings editor of the workshop “The Wide Field X-ray Telescope” (Bologna, Italy, Nov 25-26)
Since 2001: Regular referee for A&A, MNRAS, ApJ, ApJL

Main international collaborations

Member of the: Chandra-COSMOS-Legacy collaboration (since 2012)
Euclid consortium (since 2010); GOODS-Herschel collaboration (since 2007)
Chandra/XMM-COSMOS (since 2005); Chandra/XMM – Deep Field South collaboration (since 2000).
Supporter of ESA's L2 mission Athena
Member of the core science team of the STAR-X mission proposed to the NASA MIDEX call 2016 (16-APMIDEX16-0006)

Teaching activities

2017: Master Thesis (Laurea Magistrale) co-supervisor of Alessandro Peca, Bologna University (UniBo)
2017: Master Thesis co-supervisor of Quirino D'Amato, UniBo
2017: PhD Thesis supervisor of Riccardo Nanni, UniBo
2016: Master Thesis co-supervisor of Riccardo Nanni, UniBo
2016: Master Thesis co-supervisor of Chiara Circosta, UniBo
2016: Master Thesis co-supervisor of Luca Bortuzzo, UniBo
2016: Lectures on supermassive black holes for graduate students, Ferrara University (UniFe)
2015: Lectures on high-redshift AGN, Unibo
2015: Lectures on supermassive black holes for graduate students, UniFe
2013: Master Thesis co-supervisor of Chiara Mongardi, UniBo
2013: Master Thesis co-supervisor of Laura Morselli, UniBo
2012: Master Thesis co-supervisor of Simone Giacche', UniFe
2012: PhD Thesis co-supervisor of Fabio Vito, UniBo
2011: Master Thesis co-supervisor of Fabio Vito, UniBo
2009: Master Thesis co-supervisor of Sara Cazzoli, UniBo
2008: Contract professor at UniFe, course on High-Energy Astrophysics
2007: Lectures on AGN/galaxy clustering and the cosmic X-ray background for graduate students at UniBo
2006: Lectures on X-ray AGN spectra and the X-ray background for undergrads at UniBo

Visiting programs and international collaborators

2014: Space Telescope Science Institute, Baltimore (ref Marco Chiaberge)
2013: Johns Hopkins University, Baltimore (ref Riccardo Giacconi)
2010: Johns Hopkins University, Baltimore (ref Steve Murray and Colin Norman)
2008: European Southern Observatory, Garching (ref Piero Rosati)

2003: Max Planck für Extraterrestrische Physik, Garching (ref Guenther Hasinger)
2002: Harvard-Smithsonian Center for Astrophysics, Cambridge, MA (ref Martin Elvis)
2000: Hopkins University, Baltimore (ref Riccardo Giacconi and Colin Norman)
1998: Astrophysikalisches Institut Potsdam, Potsdam (ref Guenther Hasinger)

Publications

As of November 2017, co-author (first-author) of 170 (19) papers on refereed journals that collected more than 13500 (1500) citations. H-index = 59. (source ADS)

Funding ID as a Principal Investigator

2017: 13 kEUR from ASI - INAF I/037/12/0
2015: 10 kEUR from ASI - ASI-INAF I/037/12/0
2014: 57 kEUR from ASI - ASI-INAF I/037/12/0
2013: 103 kEUR from INAF - PRIN-INAF 2012
2010: 11 kEUR from ASI - ASI-INAF I/009/10/0
2009: 15 kEUR from ASI - ASI-INAF I/008/06