

CRISTIAN VIGNALI

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Observational astrophysicist. Interests include physics and evolution of Active Galactic Nuclei (AGN), galaxy evolution, high-redshift Universe, dual AGN, AGN feedback, obscured accretion through cosmic time.

He owns the *Abilitazione scientifica nazionale* for *professori di prima fascia* 02/C1 since 29.11.2017 (valid till 29.11.2026).

PERSONAL DATA

Place and date of birth: Rimini, January 16th, 1972.

Nationality: Italian.

Address: Via B. Lanzaolini, 10 – 40127 Bologna

EDUCATION

Bologna University — PhD in Astronomy, February 2001 (thesis on *The High-Energy Large Area Survey: probing the multiwavelength properties of the sources making the hard X-ray background*); supervisors: Prof. G.G. Palumbo, Dr. A. Comastri.

Bologna University — Laurea Degree in Astronomy, July 1996 (110/110 *cum laude*; thesis *On the X-ray absorption in Active Galactic Nuclei*); supervisors: Prof. G.G. Palumbo, Dr. A. Comastri.

APPOINTMENTS

Dipartimento di Fisica e Astronomia “Augusto Righi”, Università degli Studi di Bologna

Associate Professor since September 2014

Researcher, January 2005 – September 2014

Dipartimento di Astronomia, Università di Bologna

Post-doctoral fellow, June 2004–January 2005

Osservatorio Astronomico di Bologna

Post-doctoral fellow, April 2003–May 2004

Dept. of Astronomy & Astrophysics, The Pennsylvania State University

Post-doctoral scholar, April 2001–March 2003

Osservatorio Astronomico di Bologna

Post-doctoral fellow, December 2000–March 2001

RESEARCH AREAS (IN A NUTSHELL)

As mid-March, 2023:

- 368 referred papers (24 as first author), 28 referred proceedings (4), 78 proceedings (21). Co-author of six papers in support of missions and two ESO Messenger articles.
- About 20470 citations, H-index=74 (selecting refereed + articles in ADS).
- 58 oral contributions (10 as invited).
- Many successful proposals as PI and co-I.
- Main expertise (including multi-wavelength data reduction, analysis and interpretation) in the following fields:
 - Properties of high-redshift AGN and their evolution across cosmic time.
 - X-ray spectral studies and characterization of local AGN and investigation of their multi-wavelength properties.
 - Search for obscured AGN through X-rays, mid-IR and optical diagnostics and across cosmic time. Properties of the obscuring medium.
 - Spectral energy distributions of AGN: accretion vs. star formation.
 - Multiwavelength investigations on the role of AGN feedback across cosmic time.
 - Dual and multiple AGN systems at low and high-redshift in the era of gravitational waves.

MAIN INTERNATIONAL COLLABORATIONS

Member of the *Chandra*-COSMOS Legacy collaboration; *Chandra*/XMM-COSMOS collaborations; *Chandra*/XMM Deep Field South collaboration; *Chandra* Deep Field North collaboration; XXL collaboration (member of the steering committee; Italian deputy for AGN science; co-chair of the AGN working group; member of the XXL-HSC joint working group); SUPER collaboration; X-SERVS collaboration; WISSH collaboration; HYPERION collaboration; J1030 collaboration; *Athena* collaboration; *Euclid* collaboration; *Lynx* (NASA concept study) collaboration; *SPICA* collaboration (co-chair of the TWP2 package); MOONS collaboration; LGWA consortium; LISA consortium; Einstein Telescope consortium; AtLAST consortium.

PARTICIPATION IN FUTURE MISSIONS

- Member of the “High-redshift Universe” panel for the NASA mission *Constellation-X*.
- Among the co-Is of the *XEUS* proposal for the ESA Cosmic Vision (future missions).
- Among the co-Is of the *Athena+* proposal for the ESA Cosmic Vision (future missions).
- Active member of the science working groups on “Formation and early growth of black holes” and “Accretion through cosmic time” in the *Athena* collaboration.
- Active member of the *Euclid* Science work package WP9 (“Type 1 and 2 AGN”) and WP8 (“Multi-wavelength synergies”).
- Member of the *Lynx* WG on large-scale structure and High-redshift Universe.
- Member of the *SPICA* collaboration (passed to the first selection of ESA M5) and co-chair of the TWP2 package (“Synergies with Athena”).

- Member of the MOONS collaboration (WG on AGN).
- Member of the LISA consortium.
- Member of the LGWA consortium.
- Member of the Einstein Telescope consortium.
- Member of the AtLAST consortium (WPs on “Nearby Galaxies” and “Distant Universe”).

ORGANIZATION OF SCIENTIFIC MEETINGS AND WORKSHOPS (SOC/LOC)

- Member of the SOC and LOC for the “X-ray Astronomy 2009. Present status, multi-wavelength approach and future perspectives” (Bologna, September 2009).
- Member of the LOC for the 9th AGN conference “Black Hole and Revelation” (Ferrara, May 2010).
- Member of the LOC for the Workshop “Whereabouts, Physical State and Metallicity of the Missing Baryons in the Local Universe” (Cervia, May 2012).
- Co-organizer of “The high-redshift Universe” Workshop (Bologna, June 2012).
- Member of the SOC for the XXL 2014 consortium meeting (Sexten, June 2014).
- Member of the LOC for the *NuSTAR* meeting 2015 (Bologna, March 2015).
- Member of the SOC for the XXL 2015 consortium meeting (Mljet, June 2015).
- Member of the SOC for the XXL 2016 consortium meeting (Mykonos, June 2016).
- Member of the SOC for the international conference “Hot spots in the XMM sky: cosmology from X-ray to radio” (Mykonos, June 2016).
- Member of the SOC for the EWASS 2016 SS05 “A multi-messenger view of mergers and multiple supermassive black holes” (Athens, July 2016).
- Member of the SOC for the XXL 2017 consortium meeting (St-Jakut, October 2017).
- Co-organizer of the Workshop at the Lorenz Center “The Quest for Multiple Supermassive Black Holes: A Multi-Messenger View” (Leiden, November 2017).
- Member of the SOC for the EWASS 2019 SS7 “Dual Nuclei in Late Stage Galaxy Mergers and their Effect on Galaxy Evolution” (Lyon, June 2019).
- Member of the LOC for “Views on the Interstellar Medium in galaxies in the ALMA era” (Bologna, September 2019).
- Member of the SOC for “X-ray Astronomy 2019. Current Challenges and New Frontiers in the Next Decade” (Bologna, September 2019).
- Member of the SOC for the COSPAR 2022 event “Properties and Evolution of Active Galactic Nuclei in Galaxy Clusters” (Athens, July 2022).
- Member of the SOC for the EAS 2023 SS17 “The Last Kiloparsecs: From Dual AGN to Massive Black Hole Binary Mergers” (Cracow, July 2023).

REFEREE FOR PAPERS/OBSERVING PROPOSALS/RESEARCH PROJECTS/AWARDS

- Regular referee for some of the major astronomical journals (ApJ, ApJ Lett., AJ, MNRAS, A&A, New Astronomy, EXPA, Universe).
- Referee for X-ray (*XMM-Newton*, *Chandra*, and *NuSTAR*) proposal evaluation.
- Referee for optical (OPTICON, GTC) proposal evaluation.
- Referee for ERC Advanced Grants proposals.
- Referee for FIRB (MIUR) proposals.

- Referee for papers submitted to VQR.
- Referee for the Flanders Research Foundation (FWO) post-doctoral fellowships.
- Referee for the Rita Levi Montalcini fellowships.
- Referee for the Premio Lorenzoni (2022).
- Co-editor of the Section “Active Galactic Nuclei in X-rays and Gamma-rays” for the Handbook of X-ray and Gamma-ray Astrophysics (Springer, 2022).

DATA REDUCTION AND ANALYSIS. GENERIC SKILLS

- Large experience in X-ray data reduction and analysis, and interpretation of data obtained from the main telescopes of the last 20 years (e.g., *ROSAT*, *ASCA*, *BeppoSAX*, *Suzaku*, *Chandra*, *XMM-Newton*, *Swift*, *NuSTAR*) using some of the main software packages (XSPEC, FTOOLS, XSELECT, XIMAGE, XRONOS, CIAO, SHERPA, SAS, MIDAS).
- Experience in optical photometric and spectroscopic data reduction and analysis using IRAF and MIDAS.
- Some experience in sub-mm data reduction and analysis using SURF.
- Some experience with photometric redshift packages (e.g., HYPERZ), tools for survival and partial correlation analysis.
- Experience with spectral energy distribution codes.
- Some experience with HYPE for far-infrared data analysis.
- Large experience in programming (FORTRAN language); some basic knowledge of IDL and TCL/TK.
- Some experience with MUSE data.
- Large experience in managing large catalogs and astronomical databases (e.g., using custom codes of TOPCAT).

DIRECT OBSERVING EXPERIENCE

- Two optical photometric and spectroscopic observing runs at ESO 3.6m Telescope at La Silla (Chile). Results were published in few papers and partly in my PhD thesis.
- Two optical photometric observing runs at 1.5m Telescope at S. Pedro Martir (Mexico). Results were published mostly in my PhD thesis.
- Three photometric and spectroscopic (optical/near-IR) observing runs at the 3.5m Italian National Telescope (TNG) at La Palma (Canary Islands). Results were published in few articles.
- Observing run in the sub-millimeter band ($850\mu\text{m}$) with *SCUBA* in Hawaii (observing time granted after application to international time). Results were published in a paper.

PROPOSAL EXPERIENCE (focus on X-rays)

PI and co-I of many accepted proposals at optical (3m- to 10m-telescope classes), infrared, sub-mm (*SCUBA*, *ALMA*, *NOEMA*), and X-ray wavelengths (*ASCA*, *BeppoSAX*, *Chandra*, *XMM-Newton*, *Suzaku*, *Swift* and *NuSTAR*). For conciseness, in the following I will focus on X-ray observing proposals and, in particular, I will list (A) the X-ray accepted proposals as PI (including only the still active telescopes), (B) some of the most relevant/longest and, in some cases, multi-cycle accepted X-ray proposals, with myself

as co-I.

(A)

- *Chandra* Cycle 4 proposal “A *Chandra* survey of the most luminous quasars at $z > 4$ ” (proposal=04700635, Exp.=55 ks; PI: C. Vignali).
- *Chandra* Cycle 5 proposal “Unveiling the engine powering OH Gigamaser sources through X-rays. A well-defined *Chandra* survey” (proposal=05700262, Exp.=27 ks; PI: C. Vignali).
- *Chandra* Cycle 6 proposal “Studying the X-ray properties of SDSS candidate Type II quasars with exploratory *Chandra* observations” (proposal=06700774, Exp.=50 ks; PI: C. Vignali).
- *Chandra* Cycle 8 proposal “Probing heavy obscuration in optically selected Type 2 quasar candidates” (proposal=08700203, Exp.=120 ks; PI: C. Vignali).
- *Chandra* Cycle 8 proposal “Are Compton-thick quasars hidden among the population of heavily obscured Spitzer-selected AGN?” (proposal=08700396, Exp.=150 ks; PI: C. Vignali).
- *Chandra* Cycle 15 proposal “Probing black hole accretion in binary quasars at high redshifts” (proposal=15700485, Exp.=140 ks; PI: C. Vignali).
- *Chandra* Cycle 18 proposal “A quadruple quasar coincident with a giant Ly- α nebula and a protocluster at $z=2$ ” (proposal=18700313, Exp.=140 ks; PI: C. Vignali).
- XMM-*Newton* Cycle 6 proposal “Investigating the peculiar X-ray spectral properties of the narrow-line quasar PG1543+489 at $z=0.40$ ” (Exp.=50 ks; PI: C. Vignali).
- *NuSTAR* Cycle 2 proposal “NGC 2785, a heavily Compton-thick AGN candidate in a star-forming galaxy in the backyard” (Exp.=70 ks; PI: C. Vignali).

(B)

- CDF-S project: 7 Ms *Chandra* (PI: W.N. Brandt);
- CDF-S project: 3 Ms XMM-*Newton* (PI: A. Comastri).
- CDF-N project: 2 Ms *Chandra* (PI: W.N. Brandt);
- COSMOS project: 1.8 Ms *Chandra* (PI: M. Elvis);
- COSMOS-Legacy project: 2.8 Ms *Chandra* (PI: F. Civano);
- XMM-SERVS fields: 4.3 Ms XMM-*Newton* (PI: W.N. Brandt).
- “Cosmology with $z > 3$ quasars” (XMM-*Newton*, Cycle 16, 1 Ms; PI: G. Risaliti).
- “QSOs at $z=6$: Black Hole Growth and Feedback in the Early Universe” (*Chandra*, Cycle 17, 500 ks; PI: R. Gilli).
- “SUBWAYS: Supermassive Black holes Winds in the X-rays” (XMM-*Newton*, Cycle 18, 1.4 Ms; PI: M. Brusa).
- “The Compton thick AGN Legacy Project: a complete sample of *NuSTAR*-observed nearby Compton-thick AGN” (*NuSTAR*+XMM-*Newton* Large program, Cycle 5, 500+220 ks; PI: S. Marchesi).
- “HYPERluminous quasars at the Epoch of Reionization (HYPERION)” (XMM-*Newton*, Cycle 20, Multi-year Heritage, 2.4 Ms; PI: L. Zappacosta).
- “Unveiling the connection between AGN and massive gas reservoirs in protoclusters” (*Chandra* Cycle 24, 710 ks; PI: F. Vito).

RESEARCH GRANTS

- INAF 2022 (“Schede”) Grants of the following proposals:
 - (a) *Dual and binary supermassive black holes in the multi-messenger era: from galaxy mergers to gravitational waves* (Large Grant, PI: P. Severgnini; 0.2 FTE/yr assigned on my side);
 - (b) *‘Toward an holistic view of the Titans: multi-band observations of $z>6$ QSOs powered by greedy supermassive black-holes* (Large Grant, PI: L. Zappacosta; 0.2 FTE/yr assigned on my side);
 - (c) *Piercing through the clouds: a multiwavelength study of obscured accretion in nearby supermassive black holes* (mini-grant, PI: S. Marchesi; 0.2 FTE/yr assigned on my side);
 - (d) *Face-to-Face with the Local Universe: ISM’s Empowerment (LOCAL)* (mini-grant, PI: V. Casasola; team member);
 - (e) *UFOs in AGNs with EmulatoRs - UAGNER* (mini-grant, PI: M. Dadina; team member);
 - (f) *MeerKAT and LOFAR Team Up: A Unique Radio Window on Galaxy/AGN co-Evolution* (Large Grant, PI: I. Prandoni; team member);
- PRIN INAF 2019: *Piercing through the clouds: a multiwavelength study of obscured accretion in nearby supermassive black holes.*
- PRIN MIUR 2017: *Black hole winds and the baryon life cycle of galaxies: the stone-guest at the galaxy evolution supper.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”. Bando Analisi Dati, Teoria e Simulazioni (Accordo Attuativo ASI-INAF n. 2017-14-H.0). *Supermassive Black Hole Winds in X-rays.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”. Bando Analisi Dati, Teoria e Simulazioni (Accordo Attuativo ASI-INAF n. 2017-14-H.0). *Looking for Super Massive Black Hole Binary systems.*
- Finanziamento ASI per partecipazione italiana allo studio di fase A della missione *SPICA* in selezione M5.
- NASA grant of 26,800 USD for Cycle 18 *Chandra* accepted proposal as PI (used to finance my US collaborators).
- ASI-NARO18 (*NuSTAR*): *Constraining the disk-corona and nuclear absorption properties in AGN with NuSTAR.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”, Bando “Future Missioni” *STAR-X: the next generation of X-ray imaging surveys.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare. Bando 2017”. Bando Analisi Dati, Teoria e Simulazioni. *Probing AGN feedback in the most luminous QSOs at cosmic noon ($z \sim 2 - 3$).*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare. Bando 2017”: *Quasars at High-Redshift: Physics and Cosmology.*
- Bando SKA-CTA 2016: *Probing particle acceleration and γ -ray propagation with CTA and its precursors.*
- Bando SKA-CTA 2016: *FORMATION and Evolution of Cosmic STRUCTURES (FORE-CaST) with Future Radio Surveys.*

- ASI-NARO16 (*NuSTAR*): *An unprecedented look at AGN by NuSTAR broad-band X-ray spectroscopy.*
- ASI-NARO15 (*NuSTAR*): *Fire under ice: the central engine of the most luminous, dust-obscured AGN.*
- PRIN INAF 2014: *Windy black holes probing galaxy evolution.*
- ASI: *Probing the X-ray absorber structure in Mrk 915 through fast spectral variability*
- NASA grant of 35,000 USD for Cycle 15 *Chandra* accepted proposal as PI (used to finance my US collaborators).
- FARB 2012 (studi di fattibilità): *Osservazioni radio Bologna-Tokyo per lo studio dei buchi neri supermassicci nei nuclei delle galassie attive.*
- PRIN 2010-11: *The dark Universe and the cosmic evolution of baryons: from current surveys to Euclid.*
- PRIN-INAF 2011: *Black hole growth and AGN feedback through cosmic time.*
- ASI: *IXO in the Cosmic Vision - supporto scientifico all'assessment study.*
- ASI-INAF I/009/10/0: *Physics and morphology of Active Galactic Nuclei* (unit coordinator).
- ASI-INAF I/088/06/0: *Accretion processes in nearby and distant radio-quiet AGNs and QSOs* (unit coordinator).
- ASI-INAF I/23/05/0: *Accretion and ejection in AGNs* (unit coordinator).
- ASI-INAF COFIS: *Analisi dati nel contesto dello studio di cosmologia di strutture formate.*
- PRIN 2006: *L'evoluzione cosmologia, le proprietà fisiche e la demografia dei buchi neri supermassicci.*
- PRIN 2003: *La storia dell'accrescimento nell'Universo studiata nella banda X.*
- NASA financial support of $\approx 70,000$ USD and $\approx 36,000$ USD for two *Chandra* approved projects during my period in US as fellow.
- PRIN 2000: *Oscureamento e riprocessamento nella storia cosmica dei nuclei galattici attivi.*

ATTENDANCE TO CONFERENCES: ORAL PRESENTATIONS AND POSTERS

Presentations include 58 talks (10 of which invited; one concluding remark at a conference). Attended conferences without any contribution are also included.

- II Italian National Meeting on AGNs (Riccione, Italy, 1996) – Posters (4).
- AAS High Energy Astrophysics Division Meeting (Estes Park, USA, 1997) – Poster.
- III Italian National Meeting on AGNs (Roma, Italy, 1998) – Oral contribution.
- III INTEGRAL Workshop “The Extreme Universe” (Taormina, Italy, 1998).
- XIX Texas Symposium on Relativistic Astrophysics (Paris, France, 1998).
- Workshop “X-ray surveys and the history of accretion in the Universe” (Roma, Italy, 1999).
- Symposium “X-ray Astronomy 1999: Stellar Endpoints, AGN, and the X-ray Background” (Bologna, Italy, 1999) – Poster.
- Workshop “Large scale structure in the X-ray Universe” (Santorini, Greece, 1999) –

Oral contribution.

- IV Italian National Meeting on AGNs (Trieste, Italy, 2000) – Oral + poster contribution.
- Workshop “Two Years of Science with *Chandra*” (Washington, USA, 2001) – Poster.
- V Italian National Meeting on AGNs (Como, Italy, 2002) – Oral + poster contribution.
- International Workshop on “X-ray Surveys, in the light of the new observatories” (Santander, Spain, 2002) – Poster.
- Symposium on “The restless high-energy Universe” (Amsterdam, The Netherlands, 2003) – Poster.
- Tenth Marcel Grossmann Meeting (Rio-de-Janeiro, Brazil, 2003) – Oral contribution.
- Symposium on “AGN Physics with the SDSS” (Princeton, USA, 2003) – Oral contribution.
- Conference on “Multiwavelength AGN Surveys” (Cozumel, Mexico, 2003) – Oral contribution.
- VI Italian National Meeting on AGNs (Volterra, Italy, 2004) – Oral contribution.
- Conference on “Growing black holes” (Garching, Germany, 2004) – Poster.
- COSPAR Meeting (Paris, France, 2004) – Two oral contributions.
- Conference on “Superunification of Active Galactic Nuclei: Black Hole Mass, Spin and Accretion Rate (Elba Island, Italy, 2005) – Oral contribution.
- Conference on “Galaxies and Structures through Cosmic Times” (Venice, Italy, 2006) – Poster.
- VII Italian National Meeting on AGNs (Montagnana, Italy, 2006) – Oral contribution.
- International Astronomy Meeting “The multicolored landscape of compact objects and their explosive progenitors” (Cefalù, Italy, 2006) – Oral contribution.
- Conference on “At the Edge of the Universe. Latest results from the deepest astronomical surveys” (Sintra, Portugal, 2006) – Oral contribution.
- Conference on “The central engine of Active Galactic Nuclei” (Xi’an, China, 2006) – Poster.
- A *Chandra* Science Workshop “Extragalactic surveys” (Cambridge – Boston, US, 2006) – Oral contribution.
- Conference “The extreme Universe in the *Suzaku* era” (Kyoto, Japan, 2006).
- Conference “XEUS: Visions of the Extreme Universe” (London, UK, 2007).
- Workshop “CNOC2” (Chiemsee, Germany, 2007) – Invited oral contribution.
- Conference “Obscured AGN across Cosmic Time” (Seeon, Germany, 2007) – Two short oral contributions.
- Workshop “La scienza di *Herschel*” (Rome, Italy, 2008).
- Workshop “An XXL extragalactic survey: prospects for the XMM-*Newton* next decade” (Paris, France, 2008).
- Conference “The X-ray Universe 2008” (Granada, Spain, 2008) – Poster.
- COSPAR Meeting (Montreal, Canada, 2008) – Oral contribution.
- Workshop “Exploring the Hot Universe with *IXO*” (Garching, Germany, 2008).
- Workshop on “Multi-wavelength Astronomy & Virtual Observatory” (Madrid, Spain, 2008) – Invited oral contribution.

- Symposium “*Simbol-X*: focusing on the hard X-ray Universe” (Paris, France, 2008) – Oral contribution.
- Meeting on “*Safari Science*” (Saclay, France, 2009).
- Conference on “Accretion and ejection in AGN: a global view” (Como, Italy, 2009).
- Conference on “The energetic cosmos: from *Suzaku* to *ASTRO-H*” (Otaru, Japan, 2009).
- Workshop on “Wide Field X-ray Telescope” (Sexten, Italy, 2009) – Oral contribution.
- Conference “X-ray Astronomy 2009. Present status, multi-wavelength approach and future perspectives” (Bologna, Italy, 2009).
- IX Italian National Meeting on AGNs “Black Holes and Revelations” (Ferrara, Italy, 2010) – Concluding remarks.
- Workshop “Infrared/X-ray Connection in Galaxy Evolution” (MSSL, UK, 2010) – Oral contribution.
- Workshop “What drives the Growth of Black Holes?” (Durham, UK, 2010) – Oral contribution.
- Conference “Accretion and Outflow in Black Hole Systems” (Kathmandu, Nepal, 2010) – Invited oral contribution.
- Conference “*IXO* Science Meeting: Present status and future prospects in X-ray astronomy” (Roma, Italy, 2011).
- Workshop “Bridging electromagnetic astrophysics and cosmology with gravitational waves” (Milano, Italy, 2011) – Invited oral contribution.
- Conference “From dust to galaxies” (Parigi, France, 2011) – Oral contribution.
- Conference “New Horizons for High Redshifts” (Cambridge, UK, 2011) – Poster.
- Conference “The starburst-AGN connection under the multiwavelength limelight” (Madrid, Spain, 2011) – Oral contribution.
- X Italian National Meeting on AGNs “Dall’orizzonte degli eventi all’orizzonte cosmologico” (Roma, Italy, 2012).
- Conference “Half a century of X-ray Astronomy” (Mykonos, Greece, 2012) – Oral contribution.
- Conference “X-ray Astronomy: towards next 50 years!” (Milano, Italy, 2012).
- Conference “A Panchromatic View of Galaxy Evolution 30 years after IRAS” (Paphos, Cyprus, 2013) – Oral contribution.
- ENIGMA (Exploring the Nature of the Inter- and Circum-galactic Media) Workshop (Heidelberg, Germany, 2013) – Invited Oral contribution.
- IAU Symposium 304: “Multiwavelength AGN Surveys and Studies” (Yerevan, Armenia, 2013) – Invited review contribution.
- First EU-FP7 FISICA Workshop: Science Goals of sub-arcsecond Far-Infrared Space Observatory (Rome, Italy, 2014).
- XXL-AGN Meeting (Athens, Greece, 2014) – Oral contribution.
- High Energy Processes around Compact Objects (Florence, Italy, 2014) – Oral contribution.
- The X-ray Universe 2014 (Dublin, Ireland, 2014) – Oral contribution and poster.
- XXL Meeting (Sexten, Italy, 2014) – Oral contribution.

- The first billion years of galaxies and black holes (Sexten, Italy, 2014).
- AGN versus star formation: the fate of the gas in galaxies (Durham, UK, 2014). – Poster.
- XI Italian National Meeting on AGN “Where Black Holes and Galaxies Meet” (Trieste, Italy, 2014). – Invited review contribution.
- ISSI Meeting on ”Unveiling multiple AGN activity in galaxy mergers” (Bern, Switzerland, 2014). – Oral contribution.
- *NuSTAR* Science Team Meeting (Bologna, 2015).
- XXL Meeting (Mljet, Croatia, 2015) – Oral contribution.
- Demography and environment of AGN from multi-wavelength surveys (Chania, Crete, 2015). – Oral contribution.
- XXL Cosmology workshop (Florence, 2016). – Oral contribution.
- Italian *SPICA* Workshop 2016 (Rome, 2016) – Oral contribution.
- XXL Meeting (Mykonos, Greece, 2016) - Oral contribution.
- Hot spots in the XMM sky: Cosmology from X-ray to Radio (Mykonos, Greece, 2016). – Oral contribution.
- Illuminating the Dark Ages: Quasars and galaxies in the Reionization Epoch (Heidelberg, Germany, 2016) - poster.
- EWASS Symposium (Athens, Greece, 2016). – Oral contribution + Short oral contribution.
- The X-ray Universe 2017 Meeting (Rome, Italy, 2017). – Oral contribution + poster.
- XXL Meeting (St Jacut, France, 2017) - Oral contribution.
- Meeting on “Multiphase AGN feeding and feedback. Linking the micro to macro scales in galaxies, groups, and clusters” (Sesto, Italy, 2018) - Invited oral contribution.
- XXL-AGN Meeting (Durham, UK, 2018) - Oral contribution.
- Meeting on ”X-ray Surveys of the Hot and Energetic Universe” (Harbin, China, 2019) – Oral contribution.
- Meeting on ”Supermassive Black Holes: Environment and Evolution” (Corfú, Greece, 2019) – Oral contribution.
- EWASS Symposium (Lyon, France, 2019). – Two oral contributions.
- ASTROBLACK Workshop (Milan, 2019). – Invited oral contribution.
- Euclid AGN WG Workshop (Pisa, 2020). – Oral contribution.
- *SPICA* Collaboration meeting (Leiden, 2020). - Oral contribution, remotely.
- Italian Space Agency workshop ”Tematiche e obiettivi per futuri programmi scientifici spaziali” (April 2022, remotely).
- Active Galactic Nuclei XIV: “The Renaissance of Black Holes and Galaxies” (Florence, May 2022)”.
- Conference “Multiphase AGN feeding and feedback. II” (Sexten, June 2022). – Invited oral contribution.

SEMINARS (not at conferences)

- Osservatorio Astronomico di Brera (2006): *What are the X-ray observations of optically selected Type 2 quasars telling us?*

- Osservatorio Astronomico di Merate (2009): *The quest for luminous, obscured quasars through X-ray, infrared, and optical observations.*
- Gent University (2011): *Obscured quasars.*
- Osservatorio Astronomico di Roma (2014): *Obscured accretion and star formation at $z \approx 1$.*
- Institut Astrophysique de Paris (2015): *The search for heavily obscured AGN.*
- INAF – IAPS (Roma, 2018): *The realm of the first AGN in the Universe.*
- University of Barcelona (Barcelona, October 2019): *The (endless) quest for obscured AGN.*
- University of Oslo (Oslo, June 2022): *The (endless) quest for obscured AGN: a biased (Bologna-based) view.*
- Athens Observatory (remotely, June 2022): *The Chandra view of the Jackpot nebula at $z=2$: a high incidence of AGN coupled with the detection of extended emission.*
- INAF – Osservatorio Astronomico di Monte Porzio (Roma, February 2023): *Connecting AGN and massive gas reservoirs in protoclusters: the Chandra view of the Jackpot nebula at $z=2$.*

PUBLIC OUTREACH

- Specola seminar (May 2011): *L'Universo violento visto ai raggi X.*
 - Seminar at the Physics and Astronomy Department (March 2016): *Evidenze astrofisiche di corpi collassati: Pulsar e Buchi Neri.*
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ACADEMIC ACTIVITIES

INSTITUTIONAL RESPONSABILITIES

- Director of the Degree Programs (Bachelor in Astronomy and Master in Astrophysics and Cosmology; November 2022 – current).
- Member of the PhD Council in Astrophysics (2005 – current).
- Member of the School of Science at the University of Bologna.
- Member of the committee for the evaluation of the admissions of students to the *Laurea Magistrale* in Astrophysics and Cosmology (2021 – current).
- Member of the committee for the library of the Physics and Astronomy Department.
- Member of the *Giunta* of the Physics and Astronomy Department (2015–2017).
- Member of the committee for the definition of the regulations for the newly born Physics and Astronomy Department at the University of Bologna in 2012.
- Responsible for the activities at the Specola within the funded CTA+/PNRR project.

ACADEMIC SUPERVISION ROLE

My (co-) supervision of students in their 1st/2nd Cycle Degree theses is divided into two periods: prior 2013 and after 2013, corresponding approximately to the year when the University of Bologna started keeping track of these activities.

- Supervisor of one 2nd Cycle Degree student in Astrophysics and Cosmology in Bologna (<2013).
- Co-supervisor of nine 2nd Cycle Degree students in Astrophysics and Cosmology in Bologna (<2013).
- Co-supervisor of three 1st Cycle Degree students in Astronomy in Bologna (<2013).
- Co-supervisor of one PhD student in Astrophysics in Bologna (<2013).
 - Supervisor of 49 Master students in Astrophysics and Cosmology in Bologna (2013 – current).
- Co-supervisor of one Master student from the University of Pisa (2020) and one from Tubingen University (2023).
- Supervisor of seven PhD students in Astrophysics in Bologna (2015 – current).
- Co-supervisor of seven PhD students in Astrophysics in Bologna (2012 – current).
- Supervisor (co-supervisor) of one (one) Bachelor student in Physics in Bologna (2020 – current).
- Supervisor of three post-doctoral fellow at the University of Bologna.
- Supervisor of two Erasmus internship students and one visiting student.
- Supervisor of the “Semester project” of one student from India (remotely, 2023).
- Training activities for two fellow researchers in the field of X-rays analysis of AGN within the AHEAD (European) activities.

EVALUATION COMMITTEES

- Member of the committee for the evaluation of the 1st Cycle degree (Laurea) in Astronomia (2005–2015).

- Member of the committee for the evaluation of the 2nd Cycle degree (Laurea Magistrale) in Astrophysics and Cosmology (2017–current).
- Member of the committee for the evaluation of the Erasmus student traineeship program (2018–current).
- Member of the committee for the evaluation of admission of students for the Laurea Magistrale in Astrophysics and Cosmology (2021–current).
- Member of the DIFA committee for the evaluation for the PNRR - Mission 4 “Education and Research”: evaluation of projects presented by young researchers.
- Member of the DIFA committee for evaluation of the projects of visiting professors.
- Member of the committee for the evaluation of PhD candidates in Astrophysics in Bologna (twice).
- Member of the committee for the evaluation of PhD candidates in Physics at Ferrara (once).
- Member of the committee for the final evaluation of PhD students at the University of Bologna (once).
- Member of the committee for the final evaluation of PhD students at the University of Milano-Bicocca (three times).
- Member of the committee for the final evaluation of PhD students at the University of Florence (once).
- Member of the committee for the final evaluation of PhD students at the Universitat de Barcelona (once).
- Member of the committee for the final evaluation of a Master student at the University of Oslo (once).
- External referee for PhD thesis for the Rome Tre University (three times).
- External referee for PhD thesis for the University of Florence (once).
- External referee for PhD thesis for Roma Tor Vergata University (three times).
- Member of the committee for a tenure-track position at Roma Tre University (2017).
- Member of the committee for a tenure-track position at the University of Ferrara (2020).
- Member of the committee for a tenure-track position at University of Napoli “Federico II” (2021).
- Member of the committee for a tenure-track position at University of Bologna (2022).

ORGANIZATION OF SEMINARS, LESSONS, AND SCHOOLS

- Co-organizer of official “Thursday” seminars at the Observatory/Astronomy Department (2009–2016).
- Co-organizer of internal cycles of seminars for PhD students:
 - ◊ “Physical properties of AGN”, 2010;
 - ◊ “Missing baryons”, 2011;
 - ◊ “Accretion onto compact objects and its role in shaping galaxies”, 2013;
 - ◊ “The high-redshift Universe, and the role of galaxies and AGN to cosmic reionization”, 2015;
 - ◊ “A multi-wavelength view of the Galactic Center, 2017”.

- Member of the LOC for the PhD School of Astrophysics “Francesco Lucchin” held in Bertinoro, 18–23 September, 2016 (topics: *The Hot and Energetic Universe through high-resolution spectroscopy; Techniques and strategies to search for signs of Life in the Solar System: new results from Rosetta*).
- Co-organizer (and teacher) at the Winter school on X-ray data analysis at Fudan University (Shanghai, China, January 2018).
- Co-organizer of the Chandra/CIAO school in Bologna (September 2019).
- Co-organizer of the event for the thirty years from the death of Giuseppe Occhialini in Fossombrone (May 2023).
- Co-organizer of the Summer School “Remote Sensing and Processing” in Bologna (V edition, July 2023).
- Co-organizer of the CTA school in Bertinoro (June 2024).

TEACHING AND ASSISTANCE TO LABORATORY ACTIVITIES

(in blue those “active” in AA2022-23)

Esperimentazioni di Fisica II

Assistance in lab. — AA2004-05 till AA2009-10

Laboratorio di Astrofisica – Multiwavelength Astrophysics Laboratory

Teaching course + assistance in lab. — AA2005-06 – current (excluding AA2010-11)

Elementi di Informatica – Elementi di Programmazione I

Assistance in lab. – AA2006-07 + AA2008-09

Elementi di Programmazione III

Assistance in lab. — AA2007-08

Calcolo per l’Astronomia

Assistance in lab. – AA2009-10

Astrofisica delle Alte Energie – High-energy Astrophysics

Teaching course — AA2009-10 till AA2019-20 (excluding AA2010-11)

Esperimentazioni di Fisica I

Assistance in lab. — AA2011-12

Fisica per Biologia

Assistance in lab. — AA2014-15 till AA2019-20

Galassie Attive – Active Galactic Nuclei and Supermassive Black Holes

Teaching course — AA2020-21 – current

Attività professionalizzante – Professional skills

Evaluation of presentations made by students on research topics in Astrophysics and Cosmology: discussion on the physical basis of a problem, the state-of-the-art of the

research in that sector, the novelty of the results, their impact on that specific problem, and the possible weaknesses – AA2011-12 till AA2014-15 + AA2020-21 – current

Internship

Support to activities carried out by students (data analysis, acquisition of new competences in observational/numerical/theoretical astrophysics, participation in schools, workshops, and meetings, public-outreach events, scientific communication) — AA2022-23

Winter school on X-ray data analysis at Fudan University (Shanghai, China)

Two weeks of lessons and X-ray data reduction, analysis and interpretation of AGN – January 2018

SPICES, II level master, Space mission science, design and applications (Bologna University, DIFA)

Ten-hour lessons on “Analysis of astrophysical data. Properties and strength of X-rays”, 2021, 2022, 2023. Reference tutor for the internship project of Srivastava Smiriti (2022) and Paolo Calabretto (2023)

“Remote Sensing and Processing” Summer School (Bologna)

Lesson on *X-ray Astronomy: data collection and analysis* – July 2020

LIST OF PUBLICATIONS

My publication list includes 368 accepted publications on refereed journals (as mid-April 2023, 24 as first author) plus 28 works published as refereed contributions to astronomical meetings (four as first author), 78 as unrefereed proceedings (21 as first author), six supporting papers (for the *Athena+* mission, LOFT, Decadal Survey, and LISA), and two ESO Messengers articles.

JOURNAL ARTICLES

1997

R1. Cappi M., Matsuoka M., Comastri A., Brinkmann W., Elvis M., Palumbo G.G.C., **Vignali C.**
ASCA and ROSAT X-ray Spectra of High-Redshift Radio-Loud Quasars
1997, ApJ 478, 492

1998

R2. Comastri A., **Vignali C.**, Cappi M., Matt G., Audano R., Awaki H., Ueno S.
On the nature of the X-ray absorption in the Seyfert 2 galaxy NGC 4507
1998, MNRAS 295, 443

R3. **Vignali C.**, Comastri A., Stirpe G.M., Cappi M., Palumbo G.G.C., Matsuoka M., Malaguti G., Bassani L.
ASCA detection of the Fe K edge in the spectrum of the Seyfert 2 galaxy IRAS 04575–7537: a sign of a complex absorber
1998, A&A 333, 411

1999

R4. **Vignali C.**, Comastri A., Cappi M., Palumbo G.G.C., Matsuoka M., Kubo H.
Probing the hard X-ray properties of high-redshift Radio-Quiet Quasars with ASCA
1999, ApJ 516, 582

2000

R5. **Vignali C.**, Mignoli M., Comastri A., Maiolino R., Fiore F.
Optical, near-infrared and hard X-ray observations of SAXJ1353.9+1820: a red quasar
2000, MNRAS 314, L11

R6. Maiolino R., Salvati M., Antonelli L.A., Comastri A., Fiore F., Ghinassi F., Gilli R., La Franca F., Mannucci F., Risaliti G., Thompson D., **Vignali C.**
Optically dim counterparts of hard X-ray selected AGNs
2000, A&A 355, L47

R7. Fiore F., La Franca F., **Vignali C.**, Comastri A., Perola G.C., Cappi M., Elvis M., Nicastro F.
Spectroscopic identification of ten faint hard X-ray sources discovered by Chandra
2000, New Astronomy 5, 143

R8. Severgnini P., Maiolino R., Salvati M., Axon D., Cimatti A., Fiore F., Gilli R., La Franca F., Marconi M., Matt G., Risaliti G., **Vignali C.**

Sub-mm and X-ray background: two unrelated phenomena ?

2000, A&A 360, 457

R9. Vignali C., Comastri A., Nicastro F., Matt G., Fiore F., Palumbo G.G.C.

On the peculiar X-ray properties of the bright nearby radio-quiet quasar PDS 456

2000, A&A 362, 69

R10. Costantini E., Nicastro F., Fruscione A., Mathur S., Comastri A., Elvis M., Fiore F., Salvini C., Stirpe G.M., **Vignali C.**, Wilkes B., O'Brien P.T., Goad M.R.

The complex X-ray absorbers of NGC 3516 observed by BeppoSAX

2000, ApJ 544, 283

2001

R11. Comastri A., Stirpe G.M., **Vignali C.**, Brandt W.N., Leighly K.M., Fiore F., Guainazzi M., Matt G., Nicastro F., Puchnarewicz E.M., Siemiginowska A.

BeppoSAX observations of Narrow-line Seyfert 1 galaxies: II. Ionized iron features in Arakelian 564

2001, A&A 365, 400

R12. Vignali C., Comastri A., Fiore F., La Franca F.

The BeppoSAX High Energy Large Area Survey – IV. On the soft X-ray properties of the hard X-ray-selected HELLAS sources

2001, A&A 370, 900

R13. Fiore F., Giommi P., **Vignali C.**, Comastri A., Matt G., Perola G.C., La Franca F., Molendi S., Tamburelli F., Antonelli A.

The BeppoSAX High Energy Large Area Survey HELLAS – II: Number counts and X-ray spectral properties

2001, MNRAS 327, 771

R14. Comastri A., Fiore F., **Vignali C.**, Matt G., La Franca F., Perola G.C.,

The BeppoSAX High Energy Large Area Survey – III: testing synthesis models for the X-ray background

2001, MNRAS 327, 781

R15. Brandt W.N., Hornschemeier A.E., Schneider D.P., Alexander D.M., Bauer F.E., Garmire G.P., **Vignali C.**

The Chandra Deep Field-North Survey. VII. X-ray emission from Lyman break galaxies

2001, ApJ 558, L5

R16. Vignali C., Brandt W.N., Fan X., Gunn J.E., Kaspi S., Schneider D.P., Strauss M.A.

Exploratory Chandra observations of the highest-redshift quasars: X-rays from the dawn of the modern Universe

2001, AJ 122, 2143

2002

R17. Baldi A., Molendi S., Comastri A., Fiore F., Matt G., **Vignali C.**

The HELLAS2XMM survey: I. The X-ray data and the Log(N)-Log(S)

2002, ApJ 564, 190

R18. Vignali C., A. Comastri

Disclosing the true nature of the Seyfert 2 galaxy NGC 3281: one more Compton-thick source

2002, A&A 381, 834

R19. Alexander D.M., **Vignali C.**, Bauer F.E., Brandt W.N., Hornschemeier A.E., Garmire G.P., Schneider D.P.
The Chandra Deep Field-North Survey. X. X-ray emission from very red objects
2002, AJ 123, 1149

R20. La Franca F., Fiore F., **Vignali C.**, Antonelli A., Comastri A., Giommi P., Matt G., Molendi S., Perola G.C., Pompilio F.
The BeppoSAX High Energy Large Area Survey – V. The nature of the hard X-ray source populations and its evolution
2002, ApJ 570, 100

R21. Comastri A., Mignoli M., Ciliegi P., Severgnini P., Maiolino R., Brusa M., Fiore F., Baldi A., Molendi S., Morganti R., **Vignali C.**, La Franca F., Matt G., Perola G.C.
The HELLAS2XMM survey: II. Multiwavelength observations of P3: an X-ray bright, optically inactive galaxy
2002, ApJ 571, 771

R22. Alexander D.M., Aussel H., Bauer F.E., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P.
The Chandra Deep Field-North Survey. XI. X-ray emission from luminous infrared starburst galaxies
2002, ApJ 568, L85

R23. Bauer F.E., Alexander D.M., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P.
The Chandra Deep Field-North Survey. XII. The link between faint X-ray and radio source populations
2002, AJ 124, 2351

R24. Malizia A., Malaguti G., Bassani L., Cappi M., Comastri A., Di Cocco G., Palazzi E., **Vignali C.**
BeppoSAX/PDS identification of the true component of the Piccinotti source H 0914–074
2002, A&A 394, 801

R25. **Vignali C.**, Bauer F.E., Alexander D.M., Brandt W.N., Hornschemeier A.E., Schneider D.P., Garmire G.P.
The Chandra Deep Field-North Survey. XVI. The X-ray properties of moderate-luminosity Active Galaxies at $z > 4$
2002, ApJ 580, L105

2003

R26. Alexander D.M., Bauer F.E., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P., Chartas G., Gallagher S.C.
The Chandra Deep Field-North Survey. XIV. X-ray detected obscured AGNs and starburst galaxies in the bright submm source population
2003, AJ 125, 383

R27. **Vignali C.**, Brandt W.N., Schneider D.P., Garmire G.P., Kaspi S.
X-ray lighthouses of the high-redshift Universe. Probing the most luminous $z > 4$ Palomar Digital Sky Survey Quasars with Chandra
2003, AJ 125, 418

R28. **Vignali C.**, Brandt W.N., Schneider D.P.

X-ray Emission from Radio-Quiet Quasars in the SDSS Early Data Release. The α_{ox} dependence upon UV luminosity
2003, AJ 125, 433

R29. Pellegrini S., Venturi T., Comastri A., Fabbiano G., Fiore F., **Vignali C.**, Morganti R., Trinchieri G.

The nuclear accretion in the FR I radio galaxy IC 4296 from Chandra and VLBA observations
2003, ApJ 585, 677

R30. Vignali C., Brandt W.N., Schneider D.P., Anderson S.F., Fan X., Gunn J.E., Kaspi S., Richards G.T., Strauss M.A.

Chandra and XMM-Newton observations of the first quasars: X-rays from the age of cosmic enlightenment
2003, AJ 125, 2876

R31. Ciliegi P., **Vignali C.**, Comastri A., Fiore F., La Franca F., Perola G.C.

The BeppoSAX High Energy Large Area Survey (HELLAS)-VI. The radio properties
2003, MNRAS 342, 575

R32. Immler S., Brandt W.N., **Vignali C.**, Bauer F.E., Crenshaw D.M., Feldmeier J.J., Kraemer S.B.

Probing the complex and variable X-ray absorption of Markarian 6 with XMM-Newton
2003, AJ 126, 153

R33. Alexander D.M., Bauer F.E., Brandt W.N., Schneider D.P., Hornschemeier A.E., **Vignali C.**, Barger A.J., Broos P.S., Cowie L.L., Garmire G.P., Townsley L.K., Bautz M.W., Chartas G., Feigelson E.D., Sargent W.L.W.

The Chandra Deep Field-North Survey. XIII. 2 Ms point-source catalogs
2003, AJ 126, 539

R34. Fiore F., Brusa M., Cocchia F., Baldi A., Carangelo N., Ciliegi P., Comastri A., La Franca F., Maiolino R., Matt G., Molendi M., Mignoli M., Perola G.C., Severgnini P., **Vignali C.**

The HELLAS2XMM survey. IV. Optical identifications and the evolution of the accretion luminosity in the Universe
2003, A&A 409, 79

R35. Brusa M., Comastri A., Ciliegi P., Mignoli M., **Vignali C.**, Severgnini P., Fiore F., Cocchia F., La Franca F., Matt G., Perola G.C., Maiolino R., Baldi A., Molendi S.

The HELLAS2XMM survey. III. Multiwavelength observations of hard X-ray sources in the PKS 0312–77 field
2003, A&A 409, 65

2004

R36. Vignali C., Brandt W.N., Boller Th., Fabian A.C., Vaughan S.

Arakelian 564: An XMM-Newton view
2004, MNRAS 347, 854

R37. Mignoli M., Pozzetti L., Brusa M., Comastri A., Ciliegi P., Cocchia F., Fiore F., La Franca F., Maiolino R., Matt G., Molendi S., Perola G.C., Puccetti S., Severgnini P., **Vignali C.**

The HELLAS2XMM Survey. V. Near-Infrared observations of X-ray sources with extreme X/O ratios
2004, A&A 418, 827

R38. Perola G.C., Puccetti S., Fiore F., Sacchi N., Brusa M., Cocchia F., Baldi A., Carangelo N., Ciliegi P., Comastri A., La Franca F., Maiolino R., Matt G., Mignoli M., Molendi S., **Vignali C.**

The HELLAS2XMM Survey. VI. X-ray absorption in the 1df AGN sample through a spectral analysis

2004, A&A 421, 491

R39. Bassett L.C., Brandt W.N., Schneider D.P., **Vignali C.**, Garmire G.P.

Chandra observations of radio-loud quasars at $z > 4$: X-raying the radio beacons of the early Universe

2004, AJ 128, 523

R40. **Vignali C.**, Alexander D.M., Comastri A.

Evidence for X-ray obscuration in Type II quasar candidates from the Sloan Digital Sky Survey

2004, MNRAS 354, 720

2005

R41. Brusa M., Comastri A., Daddi E., Pozzetti L., Zamorani G., **Vignali C.**, Cimatti A., Fiore F., Mignoli M., Ciliegi P., Röttgering H.J.A.

XMM-Newton observations of extremely red objects and the link with luminous, X-ray obscured quasars

2005, A&A 432, 69

R42. Alexander D.M., Chartas G., Bauer F.E., Brandt W.N., **Vignali C.**

A Chandra observation of the $z = 2.285$ galaxy FSC 10214+4724: Evidence for a Compton-thick quasar?

2005, MNRAS 357, L16

R43. **Vignali C.**, Brandt W.N., Schneider D.P., Kaspi S.

X-ray Lighthouses of the High-Redshift Universe. II. Further Snapshot Observations of the Most Luminous $z \gtrsim 4$ Quasars with Chandra

2005, AJ 129, 2519

R44. Strateva I., Brandt W.N., Schneider D.P., Vanden Berk D.G., **Vignali C.**

Soft X-ray and ultraviolet emission relations in optically selected AGN samples

2005, AJ 130, 387

R45. Shemmer O., Brandt W.N., **Vignali C.**, Schneider D.P., Fan X., Richards G.T., Strauss M.

The X-ray spectral properties and variability of luminous high-redshift Active Galactic Nuclei

2005, ApJ 630, 729

R46. Lehmer D.B., Brandt W.N., Alexander D.M., Bauer F.E., Schneider D.P., Tozzi P., Bergeron J., Garmire G.P., Giacconi R., Gilli R., Hasinger G., Hornschemeier A.E., Koekemoer A.M., Mainieri V., Miyaji T., Nonino M., Rosati P., Silverman J.D., Szokoly G., **Vignali C.**

The Extended Chandra Deep Field-South Survey. Chandra Point-Source Catalogs

2005, ApJ Suppl. 161, 21

R47. **Vignali C.**, Brandt W.N., Comastri A., Darling J.

On the X-ray properties of OH megamaser sources: Chandra snapshot observations

2005, MNRAS 364, 99

R48. La Franca F., Fiore F., Comastri A., Perola G.C., Sacchi N., Brusa M., Cocchia F., Feruglio C., Matt G., **Vignali C.**, Carangelo N., Ciliegi P., Lamastra A., Maiolino R., Mignoli

M., Molendi S., Puccetti S.

The HELLAS2XMM survey. VII. The hard X-ray luminosity function of AGN up to $z = 4$: more absorbed AGNs at low luminosities and high redshifts

2005, ApJ 635, 864

R49. Shemmer O., Brandt W.N., Gallagher S.C., **Vignali C.**, Boller Th., Chartas G., Comastri A.

XMM-Newton spectroscopy of highly polarized and luminous broad absorption line quasar CSO 755

2005, AJ 130, 2522

2006

R50. Maiolino R., Mignoli M., Pozzetti L., Severgnini P., Brusa M., **Vignali C.**, Puccetti S., Ciliegi P., Cocchia F., Comastri A., Fiore F., La Franca F., Matt G., Molendi S., Perola G.C., *The HELLAS2XMM survey. IX. Spectroscopic identification of super-EROs hosting AGNs*

2006, A&A 445, 457

R51. Lopez L.A., Brandt W.N., Schneider D.P., **Vignali C.**, Chartas G., Garmire G.P.

A Chandra snapshot survey of representative high-redshift radio-loud quasars from the Parkes-MIT-NRAO sample

2006, AJ 131, 1914

R52. Steffen A.T., Strateva I., Brandt W.N., Alexander D.M., Koekemoer A.M., Lehmer B.D., Schneider D.P., **Vignali C.**

The α_{ox} Properties of Optically-Selected Active Galaxies Over Wide Luminosity and Redshift Ranges

2006, AJ 131, 2826

R53. Puccetti S., Fiore F., D'Elia V., Pillitteri I., Feruglio C., Grazian A., Brusa M., Ciliegi P., Comastri A., Gruppioni C., Mignoli M., **Vignali C.**, Zamorani G., La Franca F., Sacchi N., Franceschini A., Berta S., Buttery H., Dias J.E.

The XMM-Newton survey of the ELAIS-S1 field: I. Number counts, angular correlation function and X-ray spectral properties

2006, A&A 457, 501

R54. **Vignali C.**, Alexander D.M., Comastri A.

The quest for Type 2 quasars: Chandra observations of luminous obscured quasars in the Sloan Digital Sky Survey

2006, MNRAS 373, 321

2007

R55. Rodighiero G., Gruppioni C., Civano F., Comastri A., Franceschini A., Mignoli M., Fritz J., **Vignali C.**, Treu T.

Hidden activity in high-redshift spheroidal galaxies from mid-infrared and X-ray observations in the GOODS-North Field

2007, MNRAS 376, 416

R56. Cocchia F., Fiore F., **Vignali C.**, Mignoli M., Brusa M., Comastri A., Feruglio C., Baldi A., Carangelo N., Ciliegi P., D'Elia V., La Franca F., Maiolino R., Matt G., Molendi S., Perola G.C., Puccetti S.

The HELLAS2XMM survey: VIII. Optical identifications of the extended sample

2007, A&A 466, 31

R57. Pozzi F., **Vignali C.**, Comastri A., Pozzetti L., Mignoli M., Gruppioni C., Zamorani G., Lari C., Civano F., Brusa M., Fiore F., Maiolino R., La Franca F.
The HELLAS2XMM survey. X. The bolometric output of luminous obscured quasars: The Spitzer perspective
2007, A&A 468, 603

R58. Brusa M., Zamorani G., Comastri A., Hasinger G., Cappelluti N., Civano F., Finoguenov A., Mainieri V., Salvato M., **Vignali C.**, et al.
The XMM-Newton wide-field survey in the COSMOS field. III. Optical identification and multiwavelength properties of a large sample of X-ray selected sources
2007, ApJ Suppl. 172, 353

R59. Mainieri V., Hasinger G., Cappelluti N., Brusa M., Brunner H., Civano F., Comastri A., Finoguenov A., Fiore F., Gilli R., Lehmann I., Silverman J., Tasca L., **Vignali C.**, et al.
The XMM-Newton wide-field survey in the COSMOS field. IV. X-ray spectral properties of Active Galactic Nuclei
2007, ApJ Suppl. 172, 368

R60. Civano F., Mignoli M., Comastri A., **Vignali C.**, Fiore F., Pozzetti L., Brusa M., La Franca F., Matt G., Puccetti S., Cocchia F.
The HELLAS2XMM Survey: XI. Unveiling the nature of XBONGs
2007, A&A 476, 1223

2008

R61. Fiore F., Grazian A., Santini P., Puccetti S., Brusa M., Feruglio C., Fontana A., Giallongo E., Comastri A., Gruppioni C., Pozzi F., Zamorani G., **Vignali C.**
Unveiling obscured accretion in the Chandra Deep Field-South
2008, ApJ 672, 94

R62. Silverman J.D., Mainieri V., Lehmer B.D., Alexander D.A., Bauer F.E., Bergeron J., Brandt W.N., Gilli R., Hasinger G., Schneider D.P., Tozzi P., **Vignali C.**, Koekemoer A.M., Miyaji T., Popesso P., Rosati P., Szokoly G.
The Evolution of AGN Host Galaxies: From Blue to Red and the the Influence of Large-Scale Structures
2008, ApJ 675, 1025

R63. Ballo L., Giustini M., Schartel N., Cappi M., Jimenez-Bailon E., Piconcelli E., Santos-Lleo M., **Vignali C.**
X-ray spectral variability in PG 1535+547: the changing-look “soft X-ray weak” AGN
2008, A&A 483, 137

R64. Gruppioni C., Pozzi F., Polletta M., Zamorani G., La Franca F., Sacchi N., Comastri A., Pozzetti L., **Vignali C.**, Lonsdale C., Rowan-Robinson M., Surace J., Shupe D., Fang F., Matute I., Berta S.
The contribution of AGN and star-forming galaxies to the mid-infrared as revealed by their spectral energy distributions
2008, ApJ 684, 136 (Erratum in 2009, ApJ 701, 850)

R65. **Vignali C.**, Piconcelli E., Bianchi S., Miniutti G.
On the peculiar properties of the narrow-line quasar PG 1543+489
2008, MNRAS 388, 761

R66. Feruglio C., Fiore F., La Franca F., Sacchi N., Puccetti S., Comastri A., Berta S., Brusa M., Franceschini F., Gruppioni C., Mathur S., Matute I., Mignoli M., Pozzi F., **Vignali C.**,

Zamorani G.

The XMM-Newton survey of the ELAIS-S1 field II: optical identifications and multiwavelength catalogue of X-ray sources

2008, A&A 488, 417

R67. Luo B., Bauer F.E., Brandt W.N., Alexander D.M., Lehmer B.D., Schneider D.P., Brusa M., Comastri A., Fabian A.C., Finoguenov A., Gilli R., Hasinger G., Hornschemeier A.E., Koekemoer A., Mainieri V., Paolillo M., Rosati P., Shemmer O., Silverman J.D., Smail I., Steffen A.T., **Vignali C.**

The Chandra Deep Field-South Survey: 2 Ms source catalogs

2008, ApJ Suppl. 179, 19

R68. Fedorova E.V., Zhdanov V.I., **Vignali C.**, Palumbo G.G.C.

Q2237+0305 in X-rays: spectra and variability with XMM-Newton

2008, A&A 490, 989

R69. Giustini M., Cappi M., **Vignali C.**

On the absorption of X-ray bright Broad Absorption Line Quasars

2008, A&A 491, 425

2009

R70. Arnaud M., Barcons X., Barret D., [...], **Vignali C.**, [...]

XEUS: the physics of the hot evolving Universe

2009, Experimental Astronomy 23, 139

R71. Fiore F., Puccetti S., Brusa M., [...], **Vignali C.**, [...]

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