

ANDREA MERLONI

PERSONAL INFORMATION

Born in Rome, Italy, 13 November 1972

Nationality Italian

Address Max-Planck Institute für Extraterrestrische Physik
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WORK EXPERIENCE

2011–Present Staff Scientist, MPI FÜR EXTRATERRESTRISCHE PHYSIK

2010–2011 Post Doc, TECHNISCHE UNIVERSITÄT MÜNCHEN

2008–2010 Fellow, EXCELLENCE CLUSTER UNIVERSE, Garching

2007–2008 Post Doc, MPI FÜR EXTRATERRESTRISCHE PHYSIK

2002–2007 Post Doc, MPI FÜR ASTROPHYSIK, Garching

EDUCATION

1998–2001 Cambridge University, UK

PhD in Astronomy Thesis: *The spectra and variability of accreting black holes*
Advisors: Prof. A.C. FABIAN

1992–1997 The University of Rome 'La Sapienza', Italy

Undergraduate Diploma 'Laurea' in Physics Thesis: *A new assessment of the equation of state of white dwarves and the role of inertia in General Relativity*
Advisor: Prof. R. Ruffini; Grade: 110/110 *cum laude*

SCIENTIFIC INTERESTS

Black Hole Astrophysics, Theory of Accretion, Active Galactic Nuclei, X-ray Binaries, Cosmological evolution of Massive Black Holes, Multiwavelength Extragalactic Surveys, X-ray Astronomy

PROFESSIONAL SERVICES

Project Scientist Project Scientist of the eROSITA X-ray Telescope: coordinating the activities of ~100 scientists in the German eROSITA consortium, responsible for the strategic plan for science preparation and exploitation of all-sky survey data

Principal Investigator SPIDERS: SPectroscopic IDentification of EROSITA Sources, approved program for the fourth generation of Sloan Digital Sky Survey (SDSS-IV: 2014-2020)

Junior Research Leader Coordinator Excellence Cluster Universe, Garching

AGN Science Work Package, 4MOST: Multi-object spectrograph for the ESO/VISTA telescope

Committee Member Managing Committee, Sloan Digital Sky Survey IV (SDSS-IV); Excellence Cluster Universe Computing Center oversight committee; LOFAR Survey Key Science Project; SDSS-III; SDSS-IV; COSMOS; 4MOST; German SKA scientific teams

<i>Lecturer</i>	International Max-Planck Research School, Garching, Germany (2012); SIGRAV Graduate School in Contemporary Relativity and Gravitational Physics, Como, Italy (2012); PhD School, University of Bologna, Italy (2013)
<i>Reviewer</i>	EVN Program Committee (2007-2010); Chandra Guest Observing Program (2005, 2013); PPARC rolling grants (UK); CONICYT grants (Chile); VENI grants (The Netherlands), Carl-Zeiss Stiftung (Germany)

INVITED SEMINARS, COLLOQUIA AND REVIEW TALKS

- 2013 Invited Colloquium, INAF-IASF, Bologna, Italy
Invited talk at *Spectral/timing properties of accreting objects: from XRB to AGN*, Madrid, Spain
Invited Review at *Gas dynamics and star formation in the extreme environment of galactic nuclei*, Ringebrg Castle, Germany.
- 2012 Colloquium at NOAC, Beijing, China
Invited talk at *13th Marcel Grossman Meeting*, Stockholm, Sweden
Invited Public talk, European Science Open Forum, Dublin, Ireland
Invited talk at *ISSI Workshop on the Physics of Accretion onto Black Holes*, Bern, Switzerland
Invited talk at *Large Area Optical Spectroscopic Surveys: Science with 4MOST*, Potsdam, Germany
Colloquium at Albert Einstein Institute, Golm, Germany
- 2011 Invited talk at *From the Dolomites to the event horizon*, Sesto Pusteria, Italy
Review talk at *Combined Radio/X-rays approaches to relativistic astrophysics*, S. Petersburg, Russia
Invited talk at *Very Wide Field Surveys in Light of Astro2010*, Baltimore, USA
Invited talk at *Present status and future prospects in X-ray Astronomy*, Rome, Italy
Colloquium at Brera Observatory, Milan, Italy
- 2010 Review talk at *Cosmogony of AGN: Unifying approaches for the next decade*, Brindisi, Italy
Colloquium at University of Leiden, The Netherlands
- 2009 Invited talk *Powerful Radio Galaxies*, Lorentz Center, Leiden, The Netherlands
Colloquium at INAF-Observatory of Brera, Merate, Italy
Invited talk at *Accretion and ejection in AGN: A global view*, Como, Italy
Invited talk at *The Monsters Fiery Breath: Feedback in galaxies, groups, clusters*, Madison, USA
- 2008 Colloquium at Universitat de Barcelona, Spain
Colloquium at AIP Potsdam, Germany
Colloquium at INAF-Observatory of Bologna, Italy
Invited talk at *Putting Gravity to Work: From Black Holes to galaxy clusters*, Cambridge, UK
Invited talk at *The inner Kiloparsec: Active Galactic Nuclei and their hosts*, Crete, Greece
Colloquium at INAF-Observatory of Rome, Italy
Review talk at *Astronomy in the next decade: synergies with the SKA*, Bonn, Germany
Joint Astronomy Colloquium, ESO, Garching, Germany
- 2006 Invited review at *Radiation Backgrounds from the First Stars, Galaxies and Black Holes*, College Park, MD, USA
- 2005 Invited review at *Superunification of AGN*, Elba Island, Italy
- 2004 Invited review at *From X-ray binaries to Quasars: Black Hole Accretion on All Mass Scales*, Amsterdam, The Netherlands
- 2002 Invited review, 5th Italian AGN Meeting, Como, Italy

ORGANIZATION OF INTERNATIONAL CONFERENCES

- 2013 Conference: *Synergistic Science with Euclid and the Square Kilometre Array*, Oxford, UK [SOC]
 Workshop: *Black Hole (g)Astronomy: exploring the different flavours of accretion*, Brindisi, Italy [SOC; co-chair]
 Workshop: *Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei*, Ringberg Castle, Germany [SOC]
- 2012 Workshop: *Illuminating the AGN/Galaxy Connection*, Ringberg Castle, Germany [SOC]
 Workshop: *Large Area Optical Spectroscopic Surveys: Science with 4MOST*, Potsdam, Germany [SOC]
 Workshop: *Radio Meets Hard X-rays: Two Skies in Comparison*, COSPAR-12-E1.1, Mysore, India [SOC]
- 2011 First eROSITA International Conference: *Mapping the Structure of the Energetic Universe*, Garmisch-Partenkirchen, Germany, [SOC - chair]
 EAS Symposium: *Combined Radio/X-ray approaches for Relativistic Astrophysics*, JENAM Meeting, St. Petersburg [Convenor]
- 2010 ESF Exploratory Workshop *Cosmogony of AGNs: Unifying approaches for the next decade*, Brindisi, Italy [Convenor]
- 2008 Mini-symposium: *VLBI and high-resolution astronomy in the next decade*, Garching, Germany [SOC]
 Meeting: *The inner kiloparsec: active galactic nuclei and their hosts*, Crete, Greece [SOC]
 Workshop: *Astronomy in the next decade: synergies with the SKA*, Bonn, Germany [SOC]
- 2006 Meeting: *Coronae of stars and accretion discs*, Bonn, Germany [SOC]
- 2004 Meeting: *From X-ray Binaries to Quasars: Black Hole Accretion on All Mass Scales*, Amsterdam, The Netherlands [SOC]
 Conference: *Growing Black Holes*, Garching, Germany [SOC/LOC]

SUCCESSFUL OBSERVATIONAL PROPOSALS

- SDSS-III/BOSS* BOSS Ancillary Program: The TDSS/SPIDERS/eBOSS Pilot Survey in the XMM/LSS field co-PI Merloni (with P. Green) (2012)
- Joint JVLA-GBT* Understanding M87: A multi-frequency campaign, PI F. de Gasperin (2012)
- European VLBI Network* LLAGN outliers in the Fundamental Plane of Black Hole Activity, PI Z. Paragi (2012)
- SDSS* SPIDERS: SPectroscopic IDentification of EROSITA Sources, co-PI Merloni (with K. Nandra) (2011)
- ESO/VLT* Baseline Galaxy Cluster Sample and AGN for Cosmology with the XMM-BCS/XMM-XXL X-ray surveys, PI H. Böhringer (2011)
- Lucifer/LBT* The evolution of the $M_{\text{BH}} - M_*$ relation in obscured AGNs at high redshift, PI: R. Maiolino (2010)
- ESO/VLT* Dynamical masses of $z > 1$ AGN host galaxies, PI: I. Gavignaud (2010)
- GMRT* Multi-frequency observation of Virgo A, PI: E. Orrú (2010)
- FMOS/Subaru* The mass assembly of supermassive black holes at $z \sim 2$, PI J. Silverman (2010)
- LOFAR* A LOFAR Commissioning Survey of the core of the VIRGO Cluster, PI Merloni (2009)

<i>XMM-Newton</i>	The ultra-deep survey in the CDFS: an XMM-Newton legacy. P.I. A. Comastri (2008)
<i>Chandra/VLA</i>	A snapshot X-ray/Radio survey of AGN selected from the long menu of SDSS galaxies. P.I. S. Heinz (2006)

SUPERVISED STUDENTS AND POSTDOCS

<i>PhD Student</i>	F. DE GASPERIN, 2009-2012 (currently post-doc in the LOFAR team at Hamburg University). Thesis: <i>The impact of radio-emitting supermassive black holes on their environment: the LOFAR view of the VIRGO cluster</i>
<i>PhD Student</i>	M.-L. MENZEL, 2013-date. Thesis: <i>Spectroscopic studies of X-ray-selected AGN</i>
<i>Postdoc</i>	A. BONGIORNO, 2008-2011 (currently INAF fellow at INAF-OAR). Project: Study of host galaxies of AGN in the COSMOS survey.
<i>Postdoc</i>	N. CLERC, 2012-date. Project: Source detection algorithms and simulations for studying Large Scale Structure with eROSITA.

OTHER INFORMATION

<i>Languages</i>	ITALIAN · Mothertongue
	ENGLISH · Excellent
	FRENCH · Good (conversationally fluent)
	SPANISH · Good (conversationally fluent)
	GERMAN · Intermediate

June 30, 2013