

PERSONAL INFORMATION **Giulia Mantovani**

WORK EXPERIENCE

January 2017 – Present **Scientific Outreach**

Staff member of the Planetarium of Dipartimento di Matematica e Fisica, Università degli Studi Roma Tre. Planning and production of full dome videos for the planetarium. I actively participate in the activity 'Il cielo nella scuola - spettacoli di planetario itinerante', aimed at the students of the secondary and high schools.

August 2016 – December 2016 **Postdoctoral Researcher**

Max Planck Institute for Extraterrestrial Physics, Garching bei Munchen (Germany)

Postdoctoral Researcher in the High Energy Group at the Max Planck Institute for Extraterrestrial Physics (Director: Prof. Dr. Kirpal Nandra)

EDUCATION AND TRAINING

September 2012 – July 2016 **PhD degree in Astronomy *cum laude***

Thesis Title: 'Reflection signatures in the bright Seyfert 1 galaxies observed with Suzaku and NuSTAR'. Thesis supervisor: Prof. Dr. Kirpal Nandra, Co-supervisor: Dr. Gabriele Ponti.

Max Planck Institute for Extraterrestrial Physics, Garching bei Munchen, Germany

December 2009 – May 2012 **Master of Science in Astrophysics**

Thesis Title: 'Iron K reverberation mapping of a sample of hard X-ray selected unobscured AGN'. Thesis supervisor: Prof. G.Matt, Co-supervisor: Prof. S. Bianchi.

Final Degree mark 110/110

Università degli Studi Roma Tre, Rome, Italy

September 2006 – December 2009 **Bachelor of Science in Physics**

Thesis Title: 'Color-magnitude diagram of the open star cluster M45'. Thesis supervisor: Dr. E. Bernieri.

Final Degree mark 110/110

Università degli Studi Roma Tre, Rome, Italy

June 2006 **High School Scientific Diploma**

Final Degree mark 75/100

Liceo Scientifico Statale "G.B. Morgagni", Rome, Italy

**SCIENTIFIC OUTREACH
ACTIVITIES**

- November 2017 **In Viaggio con Cassini**
I guided tours at the exhibition 'In Viaggio con Cassini' hosted by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre.
- September 2017 **La Notte Europea dei Ricercatori 2017**
Event hosted by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre. I guided the observations with the telescopes and the tours at the exhibition 'In Viaggio con Cassini'.
- July 2017 **Sotto un cielo pieno di stelle**
I guided the observations with telescopes at the Riserva Naturale Monterano, event organized by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre.
- June 2017 **Occhi Su Giove**
One night event organized and hosted by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre. I organized and guided the exhibition of the planetarium by presenting the video 'L'Universo caldo e violento in alte energie'.
- June 2017 **Il Cielo di Roma**
Three days event at the Parco Regionale dell'Appia Antica organized by the Regione Lazio in collaboration with the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre. I guided the exhibition in the planetarium by presenting the video 'Il Sistema Solare'.
- February 2017 **Occhi Sulla Luna**
One night event organized and hosted by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre. I guided the exhibition 'Ma quanto curva?' aimed at demonstrate how the the space-time is deformed as predicted by the General Relativity.
- September 2016 **La Notte Europea dei Ricercatori 2016**
Event hosted by the Dipartimento di Matematica e Fisica dell'Universita' degli Studi Roma Tre. I guided the observations with the telescopes.

TEACHING EXPERIENCE

- Collaboration Scholarship, 2011 Tutor for the Integrated Course in statistic and data analysis for biologists at Universita' degli Studi Roma Tre.

OTHER ACTIVITIES

- Peer Review Referee for Monthly Notices of the Royal Astronomical Society.

PERSONAL SKILLS ■

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Operating Systems Windows (excellent), Mac OS X (excellent), Linux/Unix (excellent).

Programming Languages IDL (very good), C/C++ (good), Python (very good)

Packages and Codes Xspec (very good), ds9 (good), IRAF (good), Microsoft Office (excellent), iMovie (very good), Adobe Photoshop (basic), Stellarium (very good), Nightshade (basic), DaVinci Resolve (good)

Data Reduction and Analysis Very experienced in the reduction and analysis of X-ray data from space missions (Suzaku, NuSTAR, XMM-Newton, Chandra and Swift)

Others LATEX. Can learn new skills quickly. Able to work within a group environment. I developed communication skills for scientific outreach events. I plan and participate at the production of full dome videos for the planetarium

Driving licence B

ADDITIONAL INFORMATION ■

Refereed Publications Mantovani, G., Nandra, K., Ponti, G., Relativistic iron $K\alpha$ line detection in the Suzaku spectra of IC 4329A, 2014, MNRAS, 442, L95-L99

Mantovani, G., Nandra, K., Ponti, G., Relativistic Fe $K\alpha$ line study in Seyfert 1 galaxies observed with Suzaku, 2016, MNRAS, 458, 4198-4209

other Mantovani, G., Nandra, K., Ponti, G., Strong relativistic reflection in the NuSTAR spectrum of NGC 4051, under sub.

Conference talks Relativistic Fe $K\alpha$ line in bright Seyfert 1 galaxies, The X-ray Universe 2017, Rome, Italy 2017

Relativistic Fe $K\alpha$ line in Seyfert 1 galaxies, Shining from the heart of darkness: black hole accretion and jets, Kathmandu, Nepal 2016

Relativistic Fe $K\alpha$ line in Seyfert 1 galaxies, Active Galactic Nuclei: a multi-messenger perspective, Naples, Italy, 2016

Relativistic Fe $K\alpha$ line study in Seyfert 1 galaxies observed with Suzaku, The Extremes of Black Hole Accretion, ESAC, Madrid, Spain, 2015

Relativistic Fe $K\alpha$ line detection in the Suzaku spectra of IC 4329A, Active Galactic Nuclei: Where Black Holes and Galaxies Meet, Trieste, Italy, 2014

Relativistic Fe $K\alpha$ line detection in the Suzaku spectra of IC 4329A, The X-ray Universe 2014, Dublin, Ireland, 2014

PRIMARY REFEREES

Prof. Dr. Kirpal Nandra (PhD Supervisor) Full Professor, Max Planck Institute for Extraterrestrial Physics, Giessenbachstrasse 1, 85748 Garching bei Munchen, Germany Phone Number: +49 (0) 89 300003401 Email Address: knandra@mpe.mpg.de

Dr. Gabriele Ponti (Co-Supervisor) Postdoctoral Researcher, Max Planck Institute for Extraterrestrial Physics, Giessenbachstrasse 1, 85748 Garching bei Munchen, Germany Phone Number: +49 (0) 89 300003899 Email Address: ponti@mpe.mpg.de

Prof. Dr. Giorgio Matt (Master Thesis Supervisor) Full Professor, Università degli Studi Roma Tre, Via della Vasca Navale, 84 00146 Rome, Italy Phone Number: +39 0657337024 Email Address: matt@fis.uniroma3.it

Prof. Dr. Stefano Bianchi (Master Thesis Co-Supervisor) Professor, Università degli Studi Roma Tre, Via della Vasca Navale, 84 00146 Rome, Italy Phone Number: +39 0657337241 Email Address: bianchi@fis.uniroma3.it