

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Tais Maiolino

Work experience

Dates

03/2013 → 07/2013

Occupation or position held

Teaching

Main activities and responsibilities

Lectures on Linear Algebra, Introduction to Mathematics, and Introduction to Programming, for undergraduate students, in the Engineering and Mathematics courses.

Name and address of employer

University of Vale do Paraíba.
São José dos Campos, São Paulo, Brazil

Educational training

Dates

02/09/2013 → 28/02/2017

Title of qualification awarded

PhD in Relativistic Astrophysics

Principal subjects/occupational skills covered

PhD Thesis: "Exploring Outflows as Origin of Red-skewed Iron Lines in Compact Objects"; concerning the description of the asymmetric and red-skewed profile of the fluorescent emission iron line observed in Galactic accreting X-ray compact objects;
Spectral X-ray data analysis (in the 0.2 to 15 keV energy range) using data of the European Photon Imaging Camera (EPIC) on-board the ESA XMM-Newton Observatory.

Name and type of organisation providing education and training

Erasmus Mundus Joint Doctorate in Relativistic Astrophysics
University of Ferrara (Italy) and University of Nice Sophia Antipolis (France). In international partnership with University of Berlin (Germany), University of Savoie (France), University La Sapienza of Rome (Italy), and Stockholm University (Sweden).
Under supervision of Prof. Lev Titarchuk and Dr. Mauro Orlandini.

Dates

03/2010 - 02/2012

Title of qualification awarded

Master's Degree in Astrophysics

Principal subjects/occupational skills covered

Master's Thesis "A study of Sco X-1 using data from INTEGRAL observatory", concerning a long term spectral study, in the 20-200 keV energy range, of the low mass X-ray binary Sco X-1.
Spectral X-ray data analysis using data of the INTEGRAL/IBIS observatory.

Name and type of organisation providing education and training

National Institute for Space Research
São José dos Campos, São Paulo, Brazil.
Under supervision of Prof. João Braga.

Dates 12/2009

Title of qualification awarded Bachelor's Degree in Physics

Name and type of organisation providing education and training University of São Paulo (USP)
São Paulo (SP), Brazil.

Personal skills and Competences

Mother tongue **Portuguese**

Other languages

European level (*)

English

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	FCE certification	B2	FCE certification	B2	FCE certification	B2	FCE certification	B2	FCE certification
B2	FCE certification	B2	FCE certification	B2	FCE certification	B2	FCE certification	B2	FCE certification

(*) Common European Framework of Reference (CEF) level

Computer skills and competences

- Programming language: C/C++ and Perl.
- Operating system: Windows™, Unix/Linux, and Mac.
- Data Analysis Software: Xanadu (xspec and xronos), Xselect, DS9 and FTOOLS.
- Data Reduction: XMM-Newton (MOS 1, 2 and pn) and INTEGRAL (IBIS/ISGRI and JEM-X).
- Applications: TEX, LATEX, Microsoft Office, and other standard programs for windows, Mac and Unix/Linux platforms.

Driving Licence **B**

Additional Information

Formation during and after the PhD

- Associated Ph.D Student at INAF/IASF Bologna Institute (Bologna, Italy) - "Exploring outflows in Cataclysmic Variables in X-rays", 2015-2017. Under supervision of Dr. Mauro Orlandini.
- Visitor Ph.D Student at INAF Astronomical Observatory of Capodimonte (Napoli, Italy) - "GK Per during quiescence and outburst - X-ray data analysis using XMM-Newton EPIC- pn data." - 20/07/2015-23/07/2015. Under supervision of Dr. Domitilla de Martino.

Presentations Seminars and Talks

- "Exploring outflows as Origin of red-skewed iron lines in Accreting Compact Objects", 5th Bego Scientific Rencontre, Nice, France, 15-19 May, 2017.
- "Red-skewed K-alpha Iron lines in Accreting Compact Objects", Astrophysical Probes of Fundamental Physics, University of Ferrara, Ferrara, Italy, September 11, 2015.
- "Red-skewed K-alpha Iron lines in Accreting Compact Objects", "Supernovae, Gamma-ray bursts and the induced gravitational collapse", Les Houches, France, May 15, 2014.

Participations in Conferences and Schools

- 5th Bego Scientific Rencontre, Nice, France, 15th-19th May 2017.
- Journées PNHE 2016, University Diderot Paris 7, Paris, France 30th-31st March 2016.
- Vth School of Astroparticle Physics, Physics of the Universe in X-rays, OHP Saint Michel l'Observatoire, France, 23rd-28th May 2016.
- School of Astrostatistics 2015: Clustering and Classification, École de Physique des Houches, Les Houches, France, 11th-16th October 2015.
- 2nd César Lattes meeting Niterói, Rio de Janeiro, Brazil, 13th-18th April 2015.
- Fourteenth Marcel Grossmann Meeting, University of Rome "La Sapienza", Italy, 12th-18th July 2015.
- Ph.D. School, Astrophysical Probes of Fundamental Physics, Ferrara, Italy, 7th-11th September, 2015.
- IRAP School, Nice, France, 8th-19th September 2014.
- Black Holes: the largest energy in the Universe, Yerevan, Armenia, 30th June - 4th July 2014.
- IRAP winter School, Nice, France, 23rd February-2nd March 2014.
- IRAP School, Nice, France, 2nd-16th September 2013.

Awards

- Ph.D. Erasmus Mundus Scholarship - Education, Audiovisual and Culture Executive Agency (EACEA) of Brussels.
- M.Sc. CAPES Scholarship
- Awarded the 2nd prize in the Master's degree category at the "EVFITA - VII Physics Summer School"; 13th-17th February 2012 - awarded by Technological Institute of Aeronautics (ITA), São José dos Campos (SP), Brazil.

Publications

Scientific publications on peer-
review international journals

- Castro, M., D'Amico, F., Braga, J., Maiolino, T., Pottschmidt, k., Wilms, J., "Confirming the thermal Comptonization model for black hole X-ray emission in the low-hard state", **Astronomy & Astrophysics**, 569, A82, (2014).
- Maiolino, T., D'Amico, F., Braga, J., "INTEGRAL observations of Scorpius X-1: evidence for Comptonization up to 200 keV.", **Astronomy & Astrophysics**, 551, L2 (2013).

Conference Proceedings

- Castro, M., **Maiolino**, T., D'Amico, F., Wilms, J., Pottschmidt, K., Braga, J., "*Comptonization in 1E 1740.7-2942 spectra from 2 to 200 keV.*", in an INTEGRAL view of the high-energy sky (the first 10 years) 9th INTEGRAL Workshop and celebration of the 10th anniversary of the launch, October 15-19, 2012, Bibliotheque Nationale de France, Paris, France, **Proceedings of Science**.

Il sottoscritto acconsente, ai sensi del D.Lgs. 30/06/2003 n.196, al trattamento dei propri dati personali. Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università di Ferrara.