

Andrea De Luca – Short CV



Born: Pavia, 08/10/1975
citizenship: Italian
email: andrea.deluca@inaf.it
phone: 0223699329
ORCID: 0000-0001-6739-687X

Current position:

- Director, INAF/IASF Milano (since 01/01/2024)
- First researcher (*Primo Ricercatore, II livello*), INAF/IASF Milano (since 15/08/2020)

Previous positions

- 15/06/2011-14/08/2020: researcher (*Ricercatore, III livello*), INAF/IASF Milano
- 28/12/2008-14/06/2011: assistant professor, IUSS Pavia (fixed-term), Fermi-LAT Galactic science
- 01/01/2008-28/12/2008: researcher, INAF/IASF Milano (fixed-term), Fermi-LAT Galactic science
- 01/01/2004-31/12/2007: research fellow, INAF/IASF Milano, Swift/BAT data analysis
- 01/10/2000-31/12/2003: research fellow, INAF/IASF Milano, XMM/EPIC data analysis

Education

- 12/01/2004: Ph.D. in Astrophysics and Astronomy, Università degli Studi di Milano Bicocca (XVI ciclo); supervisor: Dr.ssa P. Caraveo; tutor: Prof. F. Haardt
- 12/07/1999: Degree in Physics (110/110 *e Lode*), Università degli Studi di Pavia, advisor: Prof. G.F. Bignami, co-advisors: Prof. B. Bertotti, Dr. P.A. Caraveo
- 1994-1999: Alumn at Collegio Ghislieri in Pavia

National Scientific Qualification

- *Abilitazione Scientifica Nazionale a Professore di I Fascia* - SC 02/C1 - ASTRONOMIA, ASTROFISICA, FISICA DELLA TERRA E DEI PIANETI, from 11/07/2018 to 11/07/2024 (art. 16, comma 1, Legge 240/10)

Scientific interests

- physics and phenomenology of compact objects (isolated neutron stars, both isolated and in binary systems; pulsar wind nebulae);
- data mining in the archives of space X-ray observatories with machine/deep learning;
- time-domain investigations of high energy sources;
- nature of unidentified gamma-ray sources;
- gamma-ray bursts;
- cosmic X-ray background.

Responsibilities and project coordination

- Scientific responsible for ASI-INAF agreement 2023-17-HH.0, supporting the Italian community in the exploitation of Fermi-LAT data (“Attività di sfruttamento dati del LAT a bordo dell’osservatorio Fermi”); management of 400 keuro for 2023-2025
- Primary coordinator of the EXTraS project (Exploring the X-ray Transient and variable Sky), funded by the EU within the FP7-Space framework (2014-2016, GA 607452). (see <https://www.iasf-milano.inaf.it/extras/>). Overall budget: 3.214 Meuro, EU contribution 2.479 Meuro.
- Coordinator (PI) of the ULTraS project, funded (80 keuro) within the first call (2017) of the ASI-INAF agreement “Accordo Attuativo ASI-INAF n. 2017-14-H.0”. Project devoted to the scientific exploitation of the EXTraS database and of follow-up observations.
- Co-I of the PULSULTraS project, funded (122 keuro) within the second call (2019) of the ASI-INAF agreement “Accordo Attuativo ASI-INAF n. 2017-14-H.0” – Coordinator of the INAF/IASF-MI research unit. Project focused on scientific exploitation of EXTraS database and of follow-up observations.
- Co-I in several PRIN/MUR projects

Participation in scientific collaborations

- member, ATHENA (SWG 3.3: end points of stellar evolution; SWG 5.2: Instrument Background)
- member, CTA collaboration (WG-PHYS Galactic; Transients)
- member, ASTRI collaboration
- member, Fermi-LAT collaboration
- institutional associate scientist, Swift collaboration
- 2001-2004: member, XMM-Newton/EPIC calibration team

Observing activity

- PI of more than 35 GO programs based on space observatories (XMM-Newton, Chandra, Swift, Hubble Space Telescope) as well as on ground-based telescopes (ESO/VLT)

Publications and bibliometry

- author or co-author of 162 papers on refereed international journals, totaling more than 11,700 citations; h-index=45 (2024, March, NASA/ADS system)
- about 30 oral presentations at conferences; 13 invited talks

Didactic Activity

- since 2007: Lecturer for the course of Astronomy, Physics Degree course, University of Pavia (6 CFU, 48 hours)
- advisor or co-advisor for 28 Laurea degree thesis and for 5 Ph.D. thesis, on different topics of high energy astrophysics
- since 2023: member of the Faculty Board for the Ph.D. School in Physics and Astronomy of University of Milano Bicocca
- since 2017: supervisor of several PCTO/”Alternanza Scuola-Lavoro” stages, involving high-school students in research activities at IASF Milano

Activity as a scientific referee

- member of the time allocation committee for the XMM-Newton and Chandra missions (panel: isolated neutron stars; supernova remnants; diffuse emission; gamma-ray bursts)
- referee for The Astrophysical Journal, The Astronomical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society

Awards and prizes

- Medaglia Presidente della Repubblica, “Premio Le Scienze 2008” as best young italian researcher of the year in astrophysics, Roma, december 2008.

Language skills

- Italian (mother tongue), English (fluent), French (good)

Ai sensi dell'art. 46 del D.P.R. n. 445/2000 e successive modificazioni ed integrazioni e consapevole della responsabilita' penale prevista dall'art. 76 del medesimo D.P.R., per le ipotesi di falsita' in atti e dichiarazioni mendaci ivi indicate, dichiaro che le informazioni riportate nel presente curriculum vitae sono esatte e veritiere.

Milano, 2024, March 8th