Elena Amato

Largo E. Fermi, 5 50125 - Firenze, Italy		Office: +39 055 2752 236 Fax: +39 055 220039 e-mail: elena.amato@inaf.it PEC: elena_amato@pec.it ORCID: 0000-0002-9881-8112	
CURRENT POSITIONS	Lead Researcher INAF - Osservatorio Astrofisico di Arcetri	2024 -	
	Deputy Director INAF - Osservatorio Astrofisico di Arcetri	2024-	
	Visiting Professor Gran Sasso Science Institute, L'Aquila, Italy	2021-	
	Contract Professor University of Florence, Italy	2017-	
PREVIOUS POSITIONS	Researcher INAF - Osservatorio Astrofisico di Arcetri	2001 –2023	
ACADEMIC QUALIFICATION	National Habilitation as full professor	2020	
	National Habilitation as associate professor	2013	
	Ph.D. in Astronomy, University of Florence, Ital	y 2001	
	Master in Physics, University of Florence, Italy	1998	
VISITING POSITIONS	Visiting Professor, Gran Sasso Science Institut (GSSI), L'Aquila, Italy, 2 weeks/year	te 2022 -	
	Visiting scientist at KITP, Santa Barbara, CA, US, for 1 month	A 2005–2009–2019	
RESEARCH INTERESTS	My research interests are in the field of theoretical. From the point of view of basic physics processes, ation and transport of relativistic particles and the From the point of view of specific astrophysical some ests cover Cosmic Rays, Supernova Remnants, Puls	I am interested in the acceler- physics of relativistic plasmas. rces and phenomena, my inter-	

sources of non-thermal emission in general.

My research has led to the publication of IMPACT RESEARCH

- 85 short author list articles in peer-reviewed international journals
- 11 peer-reviewed articles within large international collaborations
- more than **30** conference proceedings
- 2 contributions to books
- several contributions to roadmaps

with a total of more than 6500 citations, H-index 47 and normalized H-index 25 according to ADS. A complete list of my publications can be found here. The results of my research have granted me invitations to deliver

- more than 30 invited talks at national and international conferences in the last ten years
- more than 10 colloquia in Research Institutes in the last 5 years

ADDITIONAL ACTIVITIES

Besides doing research, I have been engaged in a number of other activities. These include: teaching University courses, supervising students and postdocs; obtaining and managing research funds; serving as a member of scientific panels, and as a reviewer for several science funding agencies worldwide and for all the main international journals in the field of Astrophysics. A more extended version of my CV can be found here.

REGULAR
TEACHING
ACTIVITY

Plasma Physics around Astrophysical Compact Objects PhD course, 12 hr/year

Gran Sasso Science Institute (GSSI), L'Aquila, Italy

High Energy Astrophysics master course, 18 hr/yr University of Florence

2016 -

2022 -

Cosmic Accelerators PhD course, 6 hr/yr University of Florence 2012 - 2016

SUPERVISING

Supervisor of 7 postdoctoral fellows, 1 pre-doctoral fellow, 2 PhD students and 6 undergraduate students in the last 10 years

RESEARCH GRANTS AS PI	PRIN MUR 2022 Unveiling the footprints of the cosmic ray journey through the Galaxy and beyond	National PI	2023-
	PRIN INAF 2019 From massive stars to supernovae and supernova remnants: driving mass, energy and cosmic rays in our Galaxy	Research Unit PI	2020–2024
	2017-14-H.0 ASI-INAF - second call On the escape of cosmic rays and their im- pact on the background plasma	National PI	2019–2023
	INAF - Mainstream Research Understanding Particle Acceleration in Galactic Sources in the CTA era	National PI	2019–2022
	2017-14-H.0 ASI-INAF - first call: A Modern Approach to Cosmic Ray Trans- port in the Galaxy	Research Unit PI	2018
	CTA-SKA INAF 2016: Probing particle acceleration and γ -ray propagation with CTA and its precursors	Research Unit PI	2017-2020
	CRACHEN PROGRAM (Scheda INAF) Cosmic Ray Acceleration to the Highest Energies funded by INAF with > 300 keuro in the last 3 years	National PI	2017-
SCIENTIFIC PANELS AND COMMITTEES	member of IUPAP (International Union for Pure and Applied Physics) commission $C4$: Astro-particle Physics		2025–
	$\frac{\text{vice-president}}{\text{age allocation committee (CAT\&S)}} \text{ of the INAF Computation time and stor-}$		2023-

Firenze, July 24, 2025

Signed Elever Armato

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