

## Curriculum Vitae et Studiorum of Patrizia A. CARAVEO

Born in Milano on April 8th, 1954

fluent in Italian, French and English

Italian degree of Laurea in Physics with Full Academic Honor at the University of Milano in 1977

### Current Standing and Summary of Activities

Currently, PAC is Associated to INAF at the Istituto di Astrofisica Spaziale e Fisica Cosmica in Milano where she has been Director from 2011 to 2017. She is also Professor of “Introduction to Astronomy” at the University of Pavia, representative of INAF within the CTA Collaboration and Associate Editor of the *Journal of High Energy Astrophysics*. The milestones of her career are given below.

A world leader in the study of high-energy emission from neutron stars, PAC is well known for her seminal work on Geminga, the first gamma-ray pulsar with no radio emission. Indeed, her career was based in interdisciplinarity in astronomy, from space and from the ground

Her list of publication features:

- 469 paper published on international referee journals
- 155 conference papers (several invited papers)
- Hundreds of papers for the general public
- 8 books (6 in Italian and 2 in English)

*However measured, her impact factor is very high. ADS, the system widely used by the astronomical community, quotes an h index >120, with more than 54.500 citations.*

Indeed, in 2014 PAC has been included by Thomson Reuters in the list of **Highly Cited Researchers** for Space Science, an area which encompasses a total of 100 scientists worldwide.

**PAC won the prize Premio Nazionale Presidente della Repubblica in 2009 and the Enrico Fermi Prize of the Società Italiana di Fisica (SIF) in 2021.**

Moreover, she shared with her Swift, Fermi and Agile colleagues the **Bruno Rossi prize of the American Astronomical Society in 2007, 2011 and 2012.**

In 2014 she received the **Outstanding Achievement Award** from the Women in Aerospace European Society.

In 2017 she was awarded the title of **Commendatore** dell’Ordine al Merito della Repubblica Italiana.

In 2018 she was instrumental to set up the **Space Economy Evolution Lab** at Bocconi University.

PAC has organized (either as main organizer or as member of the organizing committee) many Conferences and Summer Schools. She is often invited to give review lectures on topics ranging from unidentified  $\gamma$ -ray sources to the multiwavelength behaviour of Isolated Neutron Stars to the role of women in Science. As a member of the 100 donne contro gli stereotipi PAC is actively promoting women in STEM careers

PAC has been thesis adviser for tens students working both for their degree of Laurea (M.Sc) and of Dottorato (PhD).

PAC is active in science communication: she write regularly (several times a month) for Italian newspapers, blogs and magazines and she often lectures for the general public.

## Career Milestones and Organizational Responsibilities

- 1977-1978** Collaborateur Temporaire Etranger at the Service d'Astrophysique of the Centre d'Etudes Atomique de Saclay (France)
  - 1978-1982** CNR fellow for "Analysis and Astrophysical Interpretation of Gamma-Ray Astronomy data" at the Consiglio Nazionale delle Ricerche (CNR), Milano. -**1978-1985** Member (later official Milano representative) of the Data Reduction Group of the Caravane Collaboration of the COS-B mission.
  - 1982 becomes Staff Scientists at the IFCTR/CNR, Milano**
  - 1987** Winner of a NATO senior fellowship at the Service d'Astrophysique (Saclay, France)
  - 1997 wins a position of Primo Ricercatore (Senior Staff Scientist) at the IFCTR/CNR, Milano**
  - 1998 : CoInvestigator** of the NASA SWIFT mission dedicated to the study of Gamma-Ray Bursts (PAC has been responsible for the ground station)
  - 1998 CoInvestigator** and key person for **AGILE**, the first small mission of the Italian Space Agency dedicated to gamma-ray astronomy
  - 1999 CoInvestigator** for the NASA GLAST mission, now known as **Fermi**
  - 2001-2003** member of the Astronomy Working Group of the European Space Agency
  - since 2002 Research Director at the IASF-INAF Milano**
  - 2002** « Qualification aux fonctions de Professeur des Universités », section 34 : Astronomie, Astrophysique, full professor title for French Universities.
  - 2007** Co-Chair of the Astronet Panel “High-energy, astro-particle astrophysics and gravitational waves”
  - 2009 Winner of the Italian prize “Premio Nazionale Presidente della Repubblica”**
  - 2011-2017 Director of the Istituto di Astrofisica Spaziale e Fisica Cosmica (IASF) of the Istituto Nazionale di Astrofisica (INAF)**
  - 2013 Chair of the Astronet Panel “High-energy, astro-particle astrophysics and gravitational waves”**
  - since 2013 Representative of INAF within the Resource Board of the Cherenkov Telescope Array
  - since 2013 Associated Editor of the Journal of High-Energy Astrophysics (JHEA, Elsevier)
  - 2014 selected by Women in Aerospace Europe for their Outstanding Achievement Award**
  - 2014 included in the Highly Cited Researchers list by Thomson Reuters**
  - since 2015** Representative of INAF within the **Council** of the **Cherenkov Telescope Array Observatory**
  - 2015-2017 Member (adviser) of the **Italian delegation to ESA's SPC**
  - 2017 awarded the title of **Commendatore** dell'Ordine al Merito della Repubblica Italiana
  - 2018 member of the scientific committee of the **Space Economy Evolution Lab** at Bocconi University
  - 2021 winner of the **Enrico Fermi Prize** of the Società Italiana di Fisica (SIF)
- Since 1997, she is contract professor at the University of Pavia for Introduction to Astronomy