

Dr. Antonio Frasca

Curriculum Vitae - April 2026

INAF – Osservatorio Astrofisico di Catania

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CURRENT POSITION:

16/12/2025-Present: Senior Research Scientist ("*Primo Ricercatore*") at INAF–Osservatorio Astrofisico di Catania

POSITIONS:

- 01/10/97 – 15/12/2025 Astronomer ("*Ricercatore Astronomo DPR 232/11 art. 2, tempo pieno*") at INAF – OA Catania;
- 2025 Visiting Researcher - CAS-PIFI Fellow (1 month) at the National Astronomical Observatories of China (NAOC) of Chinese Academy of Sciences (CAS) (Beijing, China);
- 2007, 2006, 2001, 2000, and 1999: Visiting Researcher (1 month/year) at the "Observatoire Astronomique de Strasbourg" (France);
- 2005 and 2006: Visiting Researcher (1 month) at the Astronomy Dept. – Ege University, Izmir (Turkey).

EDUCATION:

- December 2013: "*Abilitazione Scientifica Nazionale: Ruolo di professore universitario di seconda fascia per il settore concorsuale 02/C1-Astrofisica*";
- November 1995: PhD in Physics at "Università degli studi di Catania";
- April 1990: Degree (Laurea) in Physics at the "Università degli studi di Catania", score 110/110 magna cum laude.

TEACHING ACTIVITIES:

- 2009 and 2011: Lecturer at the International PhD in "*Nuclear and Particle Astrophysics*" - Scuola Superiore and Università di Catania, lectures: "*Astrophysics: Spectral line analysis*";
- 2008: Lecturer at the 30th ISYA (International School for Young Astronomers) organized by IAU (International Astronomical Union) at Istanbul (Turkey).

DOCTORAL COMMITTEES:

- 2026 PhD Defense Committee (member of the jury and external reviewer) for Fernando Labarga Ávalos, PhD Thesis: "Studying the chromospheric activity of the M-type stars of CARMENES using iSTARMOD for implementing the spectral subtraction technique", Universidad Complutense de Madrid, 20.03.2026
- 2021 PhD Defense Committee for grad student Kim Pouilly, PhD Thesis: "*Towards the detection of short period planets embedded in the circumstellar disk of young stars*", Université Grenoble Alpes, 13.09.2021
- 2012 PhD Committee "*Nuclear and Particle Astrophysics*" XXIV, grad students V. Giordano, A. Orlando, "Scuola Superiore di Catania", 14.02.2012
- 2011 PhD Defense Committee for grad student Raquel Mercedes Martínez Arnáiz, PhD Thesis: "*Chromospheric activity and rotation of FGK stars in the solar neighbourhood: characterizing possible exoplanetary system host stars*", Universidad Complutense de Madrid, 09.06.2011
- 2008 PhD Defense Committee for grad student Alexis Klutsch, Thèse de Doctorat: "*Caractérisation physique et cinématique de la population d'étoiles actives en rayons X au voisinage solaire*", Université de Strasbourg, 15.12.2008
- 2006 PhD Defense Committee for grad student Olivier Hérent, Thèse de Doctorat: "*Étude de la population stellaire galactique des relevés X du satellite XMM-Newton*", Université de Strasbourg, 27.02.2006

PROFESSIONAL MEMBERSHIPS:

- Project co-leader of the large spectroscopic observing program PENELLOPE at the ESO VLT telescopes (Italian PI);
- Builder of the WEAVE Survey. Responsible for the analysis of Young Stars;
- Member of the international team ODYSSEUS (Outflows and Disks around Young Stars);
- LAMOST-Kepler, Col (P.I. J.N. Fu) - Responsible for the analysis with the code ROTFIT;
- Builder of the Gaia ESO Survey - Responsible for the Catania analysis node of FGK UVES and GIRAFFE spectra;
- Member of the team SPA (Stellar Population Astrophysics) - Large program at the Telescopio Nazionale Galileo;
- Member of the "PLATO Mission Consortium";
- Member of the research team "Stellar Clusters in 4MOST";
- Member of the SOXS team - 'WG2: "Stellar variability, exoplanets and YSOs";
- Member of the KASC (Kepler Asteroseismic Science Consortium);

- Member of the “*Gruppo Scientifico Nazionale*” of X-Shooter; panel “Stellar populations, abundances and dynamics”;
- Member of the “Whole Earth Blazar telescope”.

FUNDED RESEARCH PROJECTS:


- 2024: Large grant INAF “SKYWALKER: Spectral Key features of Young stellar objects: Wind-Accretion Links Explored in the infraRed” (P.I.: J.M. Alcalá), Coordinator of the Catania Research Unit;
- 2022: Large grant INAF “YODA (YSOs Outflows Disks and Accretion): towards a global framework for the evolution of planet forming systems” (P.I.: B. Nisini), Coordinator of Research Unit;
- 2019: PRIN-INAF “Spectroscopically Tracing the Disk Dispersal Evolution (STRADE)” (P.I.:J.M. Alcalá), participant;
- 2018: Main-stream INAF “Enhancing the legacy of the Gaia-ESO Survey for open cluster science” (P.I.: G. Sacco), participant;
- 2014: PRIN-INAF “The Gaia-ESO Survey” (P.I.: S. Randich), participant;
- 2012: Premiale VLT (resp. G. Vettolani), participant;
- 2012: PRIN-INAF “Disks, jets and the dawn of planets” (P.I.: B. Nisini), participant;
- 2005: PRIN-INAF 2005 - “Ammassi stellari: test per la formazione ed evoluzione stellare” (P.I.: F. Palla); coordinator of the Catania Research Unit.

SERVICE TO THE SCIENTIFIC COMMUNITY :

- Reviewer for Journals: Nature Astronomy; Astrophysical Journal (ApJ); Astronomy & Astrophysics (A&A); Astronomical Journal (AJ); Monthly Notices of the Royal Astronomical Society (MNRAS); Publication of the Astronomical Society of Japan (PASJ); Research in Astronomy and Astrophysics (RAA); Astrophysics and Space Science (Ap&SS); New Astronomy; Software X.
 - External reviewer: “Swiss National Science Foundation” (Switzerland); “National Research, Development and Innovation (NRDI) Office”, Hungary.
 - 2006-present: Instrument scientist of the imaging camera at the 0.91-m telescope of Serra La Nave observing station.
 - 2002–2006: Responsible for the "M. G. Fracastoro" observing station of the Catania Astrophysical Observatory (Serra La Nave, Mt. Etna, 1750 m a.s.l.).
 - 2026 Member of the del technical-scientific committee for the evaluation of “Progetti di Ricerca di Rilevante Interesse Nazionale” (PRIN) 2022.
- 2011–2014 Member of the INAF *committee Macroarea 2 “Stelle, popolazioni stellari e mezzo interstellare”*.

Catania, 04 April 2026

Dr. Antonio Frasca

A handwritten signature in black ink, reading "Antonio Frasca". The signature is written in a cursive style with a long horizontal flourish extending to the right.