Andrea Chiavassa

Dr. in Astrophysics

- 8 January 1979
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Keywords ───────

Multidimensional radiative transfer and hydrodynamical simulations;
Convection in stellar surfaces across HR diagram;
Exoplanetary atmospheres;
Interferometry, spectroscopy, astrometry, imagery.

Skills ───────

Fortran

IDL

Python

Spectroscopic data reduction

Interferometric data reduction

Scientific computing

Interests

My research focuses on the theme of hydrodynamic and radiative multidimensional modelling of stellar atmospheres: from Main Sequence stage to red supergiant. It concerns the study of atmospheric dynamics, fundamental parameters, mass-loss, and stellar activity for detecting and characterising planetary atmospheres.

Education

2018	Habilitation à Diriger des Recherches (equivalent to the habilitation thesis)	
	University of Nice, France	
	A Journey across the Hertzsprung-Russell diagram with 3D hydrodynamical simulations of cool stars	
2008	Ph.D. in astrophysics (advisor Bertrand Plez)	University of Montpellier, France
	Atmospheric dynamic of red supergiant stars.	
1999-2004	M.Sc. magna cum laude	University of Turin, Italy

Employment

2012-	Permanent associate scientist (CNRS) at Laboratoire Lagrange.
2010-2012	Post-doctoral research at the Institute for Astronomy and Astrophysics, Free University of Brussels, Belgium.
2008-2010	Post-doctoral research at Max Planck Institute for Astrophysics, Garching, Germany.

Publications

202 publications whose 117 peer-reviewed articles (20 as first author), 23951 citations, and H-index 45 (January 2024). 14 press releases plus 2 contributions to television documentary and movie, several contributions to science dissemination books and articles. 14 invited conferences/workshops.

Awards

2021-2025	Agence National de la Recherche (ANR), Project "PEPPER"	France
	Research grant - PI, 682 keuro	
2021-2022	Scientific Visitor at Max Planck and Excellent Cluster Origin	Germany
	Research grant - 25.5 keuro	
2020-2021	Scientific Visitor at ESO	Germany
	Research grant - 27 keuro	
2016-2020	Programme Nationale de Physique Stellaire (PNPS, CNRS) and University/Observatory of Nice	France
	Research grants - PI, 55 keuro	
2010	Fonds de la recherche scientifique(FNRS)	Belgium
	Postdoc research grant, 50 keuro	
2008	Max Planck Institute research grant	Germany
	Postdoc research grant, 42 keuro	

Collective and Scientific Responsibilities, chronological order.

2024-2029	Elected membre of the laboratory council, Lagrange
2021-	Elected membre of the Conseil Scientifique et Pédagogique - Ecole Universitaire de Recherche SPECTRUM, UCA
2016-2021	Elected member of the National Science committee for CNRS - Section 17
2020-	Membre of the science team of SPHERE+/VLT
2019-	Member of ARIEL/ESA, Member of science team of SPICA/CHARA
2018-	Member of JMMC (Jean-Marie Mariotti Center) user support
2017-	Member of the consortium LUVOIR/NASA
2014-2016	Member of Human Resources Commission (Nice University)
2014-	Member of PLATO/ESA
2013-	Member of the Science Team of HIRES (ELT)
2011-	Member of Gaia/ESA