

Andrea Chiavassa Dr. in Astrophysics

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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 thes		
	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) Atmospheric dynamic of red supergiant stars.	University of Montpellier, France	

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

206 publications whose 121 peer-reviewed articles (20 as first author), 27011 citations, and H-index 47 (September 2024). 15 press releases plus 2 contributions to television documentary and movie, several contributions to science dissemination books and articles. 15 invited conferences/workshops.

Awards

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

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