

Franco Vazza, born in Vittorio Veneto (Italy) on 19/09/1979

Present Position

Senior Assistant Professor (RTdB) at the University of Bologna, Italy

Education

Master degree in Astronomy from the University of Padova (22/07/2004)

PhD in Astronomy from the University of Bologna (07/04/2009)

Habilitation to “Maître de Conférence” in France (2013)

National Scientific Habilitation (ASN) for University teaching in Italy (2017-2023)

Awards

2014: “Borgia” prize from Accademia dei Lincei (awarded every 4 years and worth of 10,000 Euro), given at the presence of the Italian President of the Republic, as “best Italian young astronomer”.

Grants

2017: grant for the recruiting of one PhD Student from the German Ministry of Research (DFG). The grant covers a PhD project at the University of Hamburg, including funds for travels and collaborations (~200,000 Euro).

2016: Starting Grant from the European Research Council (ERC), for “MAGCOW: The Magnetised Cosmic Web” project (714196), from Sept.2017 to Aug.2022. The project has hired 7 collaborators and his based at the University of Bologna (Main Host) and the Hamburg University (1,459,000 Euro).

2016: 3yr research fellowship Astrofit2 from INAF and the Research Executive Agency (REA), for the Grant Agreement n. 664931, at the Radio Astronomy Institute in Bologna (Italy) (157,000 Euro). [resigned after 10 months to start present contract.]

2016: personal grant for a project on Cosmic Magnetism from the German Ministry of Research (DFG). The grant covers 3 years of independent research (originally during 2016-2019, I resigned from 31st Oct. 2016) and assign funds for the own PI positions and missions abroad (220,000 Euro).

2014: grant for the recruiting of one PhD Student from the German Ministry of Research (DFG). The grant covers a PhD project at the University of Hamburg, including funds for travels and collaborations (189,000 Euro).

2010: winner of a mobility grant “Taux3” from the Scientific Bureau of the French Embassy in Italy (6 months), for Post-Doctoral work (declined).

2008: winner of a PhD mobility grant “Marco Polo” from the University of Bologna

2006: winner of grant for the entire duration of the PhD, from INAF.

Publications: 69 referred journal articles (28 as PI), >1900 citations, h-index 23

Invited talks at international conferences: 16

Research highlights

I am an expert on the physics of cosmic structures, including shocks, turbulence, cosmic ray acceleration and non-thermal radiation processes. I am the PI of large supercomputing projects, and I have realised the largest simulations of extragalactic magnetic fields. I am collaborating with all most important future radio surveys (with LOFAR, ASKAP, MEERKAT and SKA). I am undertaking the challenge of understanding the origin of cosmic magnetism, also with my ERC-funded Starting Grant (2017-2022).

Teaching

I presently teach Electromagnetism for Engineers (60hr) and introduction to cosmology to Astronomers (12hr).

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