

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

Present Position

Astrofit2 Post-Doctoral Fellow of H2020/INAF at IRA (Bologna)
Tenure-track researcher at the University of Bologna (from 1st Sept.2017)

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 Conference" 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). The project will start on 1st Sept.2017, with the University of Bologna as Main Host Institution and the Hamburg University as additional beneficiary. (1,459,000 Euro).

2016: research grant Astrofit2 from the Italian Institute of Astrophysics, INAF) and the Research Executive Agency (REA), for the Grant Agreement n. 664931), at the Radio Astronomy Institute in Bologna (Italy) (157,000 Euro).

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: 47 referred journal articles (24 as PI), >1500 citations, h-index 21

Invited talks at international conferences: 13

Research highlights

I am an internationally recognized expert on the physics of large-scales 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-founded Starting Grant (2017-2022).

Contacts:

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