<u>Curriculum vitae</u>

PERSONAL INFORMATION

Family name, First name: **Corsaro, Enrico Maria Nicola**

Researcher unique identifier (ORCID): **0000-0001-8835-2075**

Date of birth: **19/01/1986**

Nationality: **Italian**

• EDUCATION

2013	PhD in Physics (Cum Laude)
	Dipartimento di Fisica e Astronomia, Università di Catania, Italy
	<u>Prof. Franco Leone</u>, <u>Dr. Alfio Bonanno</u>
2009	Master Science (Cum Laude)
	Dipartimento di Fisica e Astronomia, Università di Catania, Italy
2007	Bachelor Science (Cum Laude)
	Dipartimento di Fisica e Astronomia, Università di Catania, Italy

• CURRENT POSITION

Since 2019   INAF Staff Researcher

• PREVIOUS POSITIONS

2016 – 2019	Marie Sklodowska-Curie Fellow AstroFIt2 (Astronomy Fellowships in Italy 2) COFUND
	INAF - Osservatorio Astrofisico di Catania, Italy
2014 – 2016	Postdoctoral Research Associate Scientist SPACEINN
	CEA - Commissariat à l'énergie atomique et aux énergies alternatives, France
2012 – 2014	Postdoctoral research associate
	Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium

• FELLOWSHIPS AND AWARDS

2019	Winner of the young researchers competition for 1 permanent position in asteroseismology at INAF - Osservatorio Astrofisico di Catania
2016 – 2019	AstroFIt2 (Astronomy Fellowships in Italy 2) Marie Sklodowska-Curie COFUND
2009 – 2012	Ministerial PhD Scholarship "Fondo Giovani", Dipartimento di Fisica e Astronomia, Università di Catania, Italy

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2020 - present	1 PhD Student
	CAUP - Centro de Astrofísica da Universidade do Porto, Porto, Portugal
2019	2 Postdoctoral fellows (1 paper published)
	- 1 in Max-Planck-Institut für Sonnensystemforschung, Göttingen, Germany
	- 1 in Astronomy Department - Yale University, New Haven, USA
2018 – 2019	2 PhD Students
	Observatoire de la Cote d'Azur, France
2017 – 2019	1 Master Student (1 paper published) / 1 Bachelor Student
	Institut fùr Astro- und Teilchenphysik – Universität Innsbruck, Austria
2016	2 Master Students (1 prize for research stage using DIAMONDS)
	CEA - Commissariat à l'énergie atomique et aux énergies alternatives, France
2013	1 PhD Student (1 paper published) / 1 Master Student (1 paper published) / 3 Bachelor Students
	Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium
2012	1 Bachelor Student
	Dipartimento di Fisica e Astronomia, Università di Catania, Italy

• TEACHING ACTIVITIES

2018	Invited lecturer in the Workshop "Bayesian Inference and hands-on tutorials with DIAMONDS" (24 researchers attending), Observatoire de la Cote d'Azur, France

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2016   Invited lecturer in the "IV Azores International Advanced School – Asteroseismology and Exoplanets: Listening to the Stars and Searching for New Worlds", Portugal

2015   Invited lecturer in the "Space-Inn School – Astero/helioseismology and stellar/Solar physics", CEA - Commissariat à l'énergie atomique et aux énergies alternatives, France

• ORGANIZATION OF SCIENTIFIC MEETINGS

2018   Organizer and lecture planner for Workshop on Bayesian Inference and hands-on tutorials with DIAMONDS, Observatoire de la Cote d'Azur, France

• INSTITUTIONAL RESPONSIBILITIES

2021   Responsible for algorithm and prototype preparation for stellar granulation for the PLATO Stellar Science pipeline

2019 – 2021   Co-I. of funded INAF Main Stream Project "Stellar evolution and asteroseismology in the context of the PLATO space mission"

2018 – 2020   Co-I. of 2 TESS Guest Investigator proposals (Cycle 1 and 2) for the study of internal differential rotation in SG stars through asteroseismology

2018 – 2020   Co-I. of 3 SONG observing proposals for asteroseismology of metal poor halo stars

Since 2018   TASC P2.11 project coordinator on studying the impact of magnetic activity on global oscillation amplitudes in main sequence stars

Since 2018   Member of the ESA PLAnetary Transits and Oscillations of Stars (PLATO) Core Science Management (PSM) and Data Center (PDC)

2017 – 2020   P.I. of 3 SONG proposals for asteroseismology of active giant stars

2017 – 2018   P.I. of 2 INAF-CHIPP proposals for parallel computing facilities for asteroseismology

Since 2016   Member of the NASA Transiting Exoplanet Survey Satellite (TESS) Asteroseismic Science Consortium (TASC)

Since 2016   Associate of the Stellar Observations Network Group (SONG)

Since 2015   Member of the APOKASC (APOGEE + KASC) Science Core Team

2013 – 2014   Responsible of the NASA *Kepler* science research at Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium

2010 – 2015   Associate member of FP7-PEOPLE-2010 Marie Curie Actions n° 269194, International Research Staff Exchange Scheme (IRSES) - Sounding Stars With *Kepler* (ASK)

Since 2009   Member of the NASA *Kepler* Asteroseismic Science Consortium (KASC)

• REVIEWING ACTIVITIES

2016 – 2021   Reviewer for The Astrophysical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Optical Infrared Coordination Network for Astronomy (OPTICON)

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2011 – 2012   Member of the Italian Physics Society, Italy

2009 – 2010   Invited member of the Italian Physics Society, Italy

• MAJOR COLLABORATIONS

1. Dr. Rafael A. García, Study of photometric variability using my Bayesian approaches, CEA - Commissariat à l'énergie atomique et aux énergies alternatives, France
2. Prof. Pere Pallé, Spanish Co-PI of SONG, my contact point to access SONG observing proposals, Instituto de Astrofísica de Canarias, Spain
3. Dr. Alfio Bonanno, Collaboration in modeling of stellar evolution with CT-GARSTEC, and in magnetic dynamo action, INAF - Osservatorio Astrofisico di Catania, Italy
4. Dr. Maria Pia Di Mauro, Asteroseismic inversion on evolved stars, INAF - IAPS, Italy
5. Dr. Orlagh Creevey, Dr. Lionel Bigot, Asteroseismology of evolved stars with SONG, CoRoT, *Kepler*, using DIAMONDS, Observatoire de la Cote d'Azur, France
6. Dr. Konstanze Zwintz, Search for solar-like oscillations in pre-MS stars using my Bayesian approaches, Institut für Astro- und Teilchenphysik – Universität Innsbruck, Austria

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7. Dr. Joris De Ridder, Co-developer of DIAMONDS, Instituut voor Sterrenkunde, Katholieke Universiteit Leuven, Belgium
8. Prof. Keivan Stassun, Study of stellar granulation with NASA TESS using my Bayesian approaches, Vanderbilt University, Department of Physics & Astronomy, TN, USA
9. Dr. Tiago Campante, Analysis of solar-like oscillations in planet-host stars observed with NASA TESS, CAUP - Centro de Astrofísica da Universidade do Porto, Porto, Portugal