

# CURRICULUM VITAE

*Last update: 15/07/2026*



## **Aldo Stefano Bonomo**

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**Nationality:** Italian

**Date of birth:** 20 December 1980

### ➤ **Education**

03/2009: PhD in Physics, summa cum laude, Università degli Studi di Catania. Thesis title: “*Detection of Earth-like planetary transits in the presence of stellar microvariability*”, supervisors: Dr. Antonino F. Lanza and Prof. Alessandro C. Lanzafame.

07/2005: Master's Degree in Physics, summa cum laude, Università degli Studi di Catania. Thesis title: “*Cyclic variability of the Sun as a star: analysis of the Total Irradiance as measured from satellites*”, supervisors: Dr. Antonino F. Lanza and Prof. Marcello Rodonò.

07/1999: High School Diploma, “Liceo Classico M. Cutelli”, Catania, with full marks

### ➤ **Experience**

01/2024- : INAF (Istituto Nazionale di AstroFisica) senior researcher at the Osservatorio Astrofisico di Torino (OATo)

12/2016-12/2023: INAF staff researcher at OATo

02/2014-11/2016: FP7-SPACE ETAEARTH post-doc position at INAF-OATo to work on the characterization of small-size planetary systems with the *Kepler* space telescope and the HARPS-N (High Accuracy Radial velocity Planet Searcher for the Northern hemisphere) spectrograph mounted on the Italian 3.6 m Telescopio Nazionale Galileo (TNG) in La Palma island

02/2012-01/2014: INAF post-doc position at OATo for the planning, performance, and analysis of HARPS-N@TNG observations to search for low-mass planets and to characterize *Kepler* small-size planetary candidates, within the HARPS-N/GTO (Guaranteed Time Observations) and INAF/GAPS (Global Architecture of Planetary Systems) consortia

01/2011-12/2011: CNES (Centre National d'Études Spatiales) postdoctoral fellowship at the Laboratoire d'Astrophysique de Marseille (LAM, France) to work on the data obtained by the CoRoT (Convection Rotation and planetary Transits) space telescope for the search for and characterization of CoRoT and Kepler planetary systems, and for the study of the magnetic activity of planet-hosting stars

04/2009-12/2010: CNRS (Centre National de la Recherche Scientifique) post-doc position at LAM as scientist responsible for the CoRoT Alarm Mode aimed at the early detection of planetary transits in the CoRoT N1-level data

10/2008-03/2009: CNRS post-doc position at LAM to work on the analysis of CoRoT data

06/2007-01/2008: Visiting the Institut d'Astrophysique Spatiale (Université Paris-Sud XI, Paris-Orsay, France) to work on transit detection techniques for the analysis of CoRoT data

10/2005-11/2005: graduate student grant at INAF – Osservatorio Astrofisico di Catania for the development of models of the Total Solar Irradiance variations and their application to solar-type stars

➤ **Main fields of research/interest:**

- Detection and characterization of exoplanetary systems
- Exoplanet demography
- Exoplanetary atmospheres
- Magnetic activity of late-type stars
- Star-planet interactions

➤ **Scientific contribution**

- > 230 refereed journal papers with > 11000 citations; > 25 non-refereed publications (conference proceedings); ORCID: <https://orcid.org/0000-0002-6177-198X>
- h-index=56; m-index=2.8; g-index=97 (source: SAO/NASA ADS)
- > 60 talks at national or international conferences/workshops, scientific institutes and universities
- List of publications available at this [link](#)

➤ **Specific scientific responsibilities/tasks and memberships**

***GAPS Consortium***

- Chair of the GAPS Board (01/2024-12/2024)
- Member of the GAPS Board (11/2023- )
- GAPS (Global Architecture of Planetary Systems) Atmospheres Project Scientist (10/2017- )
- Member of the GAPS Science Team (10/2017- )
- Member of the GAPS consortium with top- and second-level Work Package (WP) responsibilities (2012- )

***HARPS-N Collaboration***

- Co-leader of the HARPS-N Collaboration sub-program on the RV long-term monitoring of *Kepler*, K2, and TESS systems (2024- ) (other co-leader: Dr. L. Naponiello)
- Leader of the HARPS-N/GTO (Guaranteed Time Observations) sub-program on the RV long-term monitoring of *Kepler* and K2 systems (2019-2023)
- Member of the HARPS-N/GTO Target Selection Team to plan the radial-velocity follow up of *Kepler*/K2 and *TESS* planetary candidates with HARPS-N (2015- )
- Member of the HARPS-N/GTO Consortium (2012- )

### ***PLATO Space Mission Consortium***

- Leader of the Working Group on Planet Occurrence Rates with Multiple Techniques (2025-)
- Member of the PLATO space mission team (2010- )

### ***CoRoT Space Mission Consortium***

- Member of the CoRoT Science Team (2010-2012)
- Scientist in charge of the Alarm Mode of the CoRoT space mission for the early detection of planetary transits in CoRoT N1-level data (2009-2010)

### ***Other memberships***

- Member of the International Astronomical Union (IAU) (06/2022- )
- Member of the Ariel (Atmospheric Remote-sensing Infrared Exoplanet Large-survey) space mission team (2021- )

## **➤ Professional service**

### ***Referee activity:***

- Referee for the peer-reviewed journals *Astronomy & Astrophysics*, *Astronomy & Astrophysics Letters*, *Monthly Notices of the Royal Astronomical Society*, *The Astronomical Journal*, *Icarus*, *Publications of the Astronomical Society of the Pacific*, *Astronomy & Computing*
- Panel Member of the ESO (European Southern Observatory) Observing Programs Committee (2019)
- External reviewer of individual applications for the following grants: Swiss National Science Foundation (SNSF) grant; Royal Astronomical Society (RAS) Research Fellowship; PhD position at Università Italo-Francese.
- External reviewer of a few OPTICON proposals (2018- )
- External reviewer of the PhD Thesis of Dr. A. Ruggieri at Università di Padova (2024)

### ***Participation in boards/committees:***

- Member of the doctoral board in Physics at Università di Torino (05/2026-)
- Member of the doctoral examination committee in Physics at Università di Torino (2025, XLI PhD cycle)
- President of a board of examiners for a fixed-term position (Contratto a Tempo Determinato) at INAF-OATo (01-02/2024)
- President of two boards of examiners for post-doc positions (Assegni di Ricerca) at INAF-OATo (01-02/2024)
- Member of three boards of examiners for post-doc positions at INAF-OATo (10/2020, 05/2020, 12/2018)
- Member of a board of examiners for a scholarship at INAF-OATo (04/2024)
- Member of the board to decide on the topic of a PhD position at INAF-OATo (2023)
- Member of the board for the drafting of the HARPS-N Collaboration 2023-2028 White Paper (2023)

### ***Organization of conferences, workshops, seminars:***

- Chair of the Meeting "On the shoulders of giants. Cold Jupiters and their role in the formation of inner low-mass planets. From theory to observations" (Torino, 25-27/03/2026)

- Member of the Scientific Organizing Committee (SOC) of the Meeting "Exoplanets in Italy: status and perspectives" (Roma, 26-28/02/2025)
- Main organizer of the ESPLORA in-person Progress Meeting (Napoli, 21-22/11/2024)
- Co-organizer of the sessions on atmospheric characterization at high resolution at more than ten GAPS Progress Meetings (2017-)
- Member of the SOC of the EPRV (Extreme Precision Radial Velocity) IV Meeting (Grindelwald, 17-21/03/2019)
- Responsible for the organization of the AGRET (Astrometry, Galaxy, Relativity, Exo-planets and related Technology) internal meetings at INAF-OATo (09/2021-12/2022)
- Responsible for the organization of seminars at INAF-OATo (2017-2018)

### ➤ Awards

- CNES (Centre National d'Études Spatiales) postdoctoral fellowship on the topic "Detection and characterization of CoRoT transiting planets - Magnetic activity of planet-hosting stars" at the Laboratoire d'Astrophysique de Marseille (2011)
- Prize "Accueil de Chercheurs" (3 k€) by the City of Marseille on 5 November 2009 for the quality of scientific work pursued as a foreign researcher in Marseille

### ➤ Awarded grants

- INAF Astrofisica di Frontiera 2025 Science Network Grant "EXOPATHS: EXOplanet Formation, Evolution, and Habitability PATHwayS", Responsible of Work Package (WP) 5.4 (Spokesperson: Dr. A. Sozzetti), 1,5 M€
- INAF GO Grant 2024 "Strengthening pylons for BRIDGES", Co-Investigator (PI: Dr. F. Borsa), 100 k€
- INAF Large Grant 2023 "EXODEMO: The Demographics of Planetary Systems with Solar System-Type Architectures", Responsible of WP4 (PI: Dr. A. Sozzetti), 200 k€
- INAF GO (Guest Observer) Large Grant 2023 "Global Architecture of Planetary System (GAPS) 2", Co-Investigator (PI: Dr. G. Micela), 100 k€
- PRIN (Progetto di Ricerca di Interesse Nazionale) MUR (Ministero dell'Università e della Ricerca) 2022 "ESPLORA: Exoplanet Spectroscopy at high resolution to Probe their Lost Origins by Revealing their Atmospheric compositions", Principal Investigator, 187 k€
- PNRR (Piano Nazionale di Ripresa e Resilienza - Recovery and Resilience Plan) 2022-2025 grant for the project "Development and optimization of high-performance tools for the modeling of exoplanetary atmospheres" within the Italian National Center for High-Performance-Computing (Spoke 3), Principal Investigator, 152 k€
- PRIN INAF 2019 "The HOT-ATMOS Project: characterizing the atmospheres of hot giant planets as a key to understand the exoplanet diversity", Principal Investigator, 154 k€
- ASI (Agenzia Spaziale Italiana) - INAF grant 2018 "Time-dependent high-energy stellar radiation and planetary atmosphere interaction" (THEStellarPath), Responsible of WP3 (PI: Dr. A. Maggio), 167 k€
- INAF PhD grant at Università di Torino, 2017-2020, on "Structural and Atmospheric Characterization of Transiting Planetary Systems", co-PI (other co-PI: Dr. A. Sozzetti), 28 k€

### ➤ **Selected observing proposals**

- Co-PI (other co-PI: X. Dumusque) of the Large Program with HARPS-N at TNG “Searching for super-Earths in the habitable zone of nearby dwarfs for the Habitable Worlds Observatory (HWO)” (50 nights), 2026-2028
- Co-I of the Large Programs with HARPS-N and/or GIANO at TNG “The Great HARPS-N hunt for super-Earths and Neptunes interior to outer giant planets detected by Gaia” (13 nights per semester), “The magnifying glass of HARPS-N & Ariel on the nature of the exoplanets in the Radius Valley” (10 nights per semester), “BRIDGES: Building a Road to the In-Depth investigation of Exoplanetary atmospheres” (9 nights per semester), 2023-2028
- Co-I of the Large Programs with HARPS-N at TNG “Accurate masses of transiting small planets and their hidden friends” (21 nights per semester) and “Pushing HARPS-N towards detecting temperate terrestrial-mass planets and habitable-zone Super-Earths” (11 nights per semester), 2023-2026
- Co-I of the Long-Term Proposal “The PEPSI/LBT Exoplanet Transit Survey (PEPSI)”, 30 nights with PEPSI@LBT, 2021
- Co-writer/Co-I of the Long-Term Proposal “GAPS2: the origin of planetary system diversity”, 68 nights/yr with GIARPS@TNG, 2018-2023
- PI of the Proposal “A search for low-mass planets in the habitable zone of a nearby and quiet M dwarf”, 2 nights with HARPS-N@TNG, 2018
- PI of the Proposal “Probing the atmosphere of the hot Jupiter HD102195b with Giano”, 2 nights with GIANO@TNG, 2016
- PI of the Proposal “A Giano view of the dayside of tau Bootis b”, 2 nights with GIANO@TNG, 2016
- Co-I of the ESO Proposal “A HARPS Hunt for Scaled-Down Solar-System Analogs”, 9 nights with HARPS@ESO, 2014
- Co-writer/Co-I of the Proposals “Characterizing the Global Architecture of Planetary Systems with HARPS-N”, ~65 nights/yr with HARPS-N@TNG, 2012-2017
- Co-I of the Proposals “Characterization of transiting planets with SOPHIE@OHP”, ~30 nights/yr with SOPHIE@OHP, 2012-2015

### ➤ **Supervision and teaching**

#### ***Supervision:***

02/2024- : Post-doc position (Assegno di Ricerca) supervisor (Dr. L. Naponiello)

05/2023-03/2025 : Fixed-Term position (Tempo Determinato) supervisor (Dr. G. Guilluy)

11/2020-04/2023 : Post-doc position supervisor (Dr. G. Guilluy)

11/2020-10/2023 : PhD in Astrophysics at Università di Roma Tor Vergata (XXXVI cycle) co-supervisor (L. Naponiello)

11/2013- : Master's Theses main supervisor (S. Crespi, R. Bongiolatti, R. Stognone, A. Massa, E. Pezzetta) and co-supervisor (S. Bruna, G. Ghetti)

11/2013- : Bachelor's Theses main supervisor (M.C. Maimone, N. Cibrario, S. Bruna, R. Stognone, A. Massa) and co-supervisor (E. Pezzetta, D. Stival)

#### ***Teaching:***

02/2022- : National qualification for teaching as Associate Professor at Italian Universities (academic recruitment field 02/C1: Astronomy, Astrophysics, Physics of Earth and planets)

16-20/09/2024 : Lecturer at the EXOHOST Summer School on the topic "Planet Formation and populations", Tartu (Estonia)

22-26/05/2023 : Lecturer at the 4<sup>th</sup> Advanced School on Exoplanetary Science (ASES) on the topic "Astrophysics of Transiting Exoplanets", Vietri sul Mare (Italy)

02/2020-03/2023 : Training courses on exoplanets for high-school teachers organized by INAF-OATo

02/2022-03/2022 : Training course on exoplanets for high-school teachers organized by the Accademia delle Scienze di Torino

10/2010-11/2010 : Tutoring of general Mathematics to undergraduate students of the Classes Préparatoires Polytech Marseille (France)

04/2006-05/2007 : Private tutoring of general Mathematics courses to undergraduate students of the Università di Catania at the Camplus D'Aragona residence

➤ **Selected interviews, press releases and articles related to my publications:**

23/06/2026: Ten years to discover the HIP-41378 planets ("Dieci anni per scoprire i pianeti di HIP-41378"), <https://www.media.inaf.it/2026/06/23/sistema-planetario-hip-41378/>

17/06/2026: An "improbable" planetary system: compact, coplanar, and shaped by a brown dwarf, <http://www.inaf.it/en/inaf-news/improbable-planetary-system>; see also [https://www.ansa.it/canale\\_scienza/notizie/spazio\\_astronomia/2026/06/22/un-improbabile-sistema-di-pianeti-attorno-a-una-stella-fallita-\\_d517812b-5e9c-4b98-84b3-f7182c1bf217.html](https://www.ansa.it/canale_scienza/notizie/spazio_astronomia/2026/06/22/un-improbabile-sistema-di-pianeti-attorno-a-una-stella-fallita-_d517812b-5e9c-4b98-84b3-f7182c1bf217.html) and [https://www.lastampa.it/scienza/2026/06/19/news/astronomia\\_nana\\_bruna\\_sistemi\\_planetari-15663847/?ref=LSHA-P14-S5-T1](https://www.lastampa.it/scienza/2026/06/19/news/astronomia_nana_bruna_sistemi_planetari-15663847/?ref=LSHA-P14-S5-T1)

10/03/2026: HARPS-N unveils an intriguing multi-planet system around HIP-99452, <https://www.tng.iac.es/news/2026/03/10/harps-n-unveils-an-intriguing-multi-planet-system-around-hip-99452/> ; see also <https://www.oato.inaf.it/multi-planet-system-k-dwarf-hip-99452/?lang=en>

29/04/2025: A likely water world revealed from the skies above the Canary Islands ("Pianeta di acqua svelato dai cieli delle Canarie"), <https://www.media.inaf.it/2025/04/29/kepler-10c/>; related interviews on Rai-2/TG-2, Rai-3/TG-Leonardo, and Giornale Radio

30/08/2023: The densest Neptune-size planet ever observed ("Il nettuniano più denso mai osservato"), <https://www.media.inaf.it/2023/08/30/nettuniano-denso/>

06/07/2023: interview with mediainaf about the hunt for cold Jupiters in transiting small planet systems with HARPS-N ("A caccia di giganti freddi con HARPS-N", <https://www.media.inaf.it/2023/07/06/a-caccia-di-giganti-freddi-con-harps-n/>)

03/02/2023: interview on Rai-2/TG-2 about the discovery of the exoplanet Wolf-1069b in the habitable zone around an M-mid dwarf

24/10/2022: Soup of molecules for two warm exoplanets ("Insalata di molecole per due tiepidi esopianeti"), <https://www.media.inaf.it/2022/10/24/cinque-molecole-carleo-guilluy/>

08/07/2022: I sistemi planetari intorno alle nane rosse ("Planetary systems around red dwarfs"), <https://www.media.inaf.it/2022/07/08/sistemi-planetari-delle-nane-rosse/>

11/2021: interview together with Dr. L. Spina about exoplanet-eating stars ("Caccia alle stelle cannibali") on BBC Science Italy magazine

7/04/2021: A migrating exoplanet as revealed by its atmosphere ("Esopianeta migrato, lo rivela la sua atmosfera"), <https://www.media.inaf.it/2021/04/07/esopianeta-migrato-hd209458b/>

9/06/2020: Helium in the atmosphere of HD189733b ("Elio bollente nell'atmosfera di HD189733b"), <https://www.media.inaf.it/2020/06/09/elio-bollente-nellatmosfera-di-hd-189733b/>

27/09/2019: Heavy air on an exoplanet? HARPS-N can tell you ("Aria pesante sull'esopianeta? Te lo dice HARPS-N", <https://www.media.inaf.it/2019/09/27/harps-kelt-9b/>, <http://www.tng.iac.es/news/2019/09/29/arm/>)

27/06/2019: Water worlds galore, <https://www.nature.com/articles/s41550-019-0846-4>

23/04/2019: Methane on an hot Jupiter (“C’è metano su quel gioviano”,  
<https://www.media.inaf.it/2019/04/23/ce-metano-su-quel-gioviano/>,  
[http://www.tng.iac.es/news/2019/04/22/jupiter\\_methane/](http://www.tng.iac.es/news/2019/04/22/jupiter_methane/))  
4/02/2019: Different twin super-Earths (“Ecco le due super-terre gemelle ma diverse”,  
<https://www.media.inaf.it/2019/02/04/kepler-107-superterre-gemelle/>;  
[http://www.ansa.it/canale\\_scienza\\_tecnica/notizie/spazio\\_astronomia/2019/02/07/da-una-catastrofe-cosmica-due-pianeti-gemelli-diversi-\\_115f0ba7-1e76-4b1a-9a62-887016c960db.html](http://www.ansa.it/canale_scienza_tecnica/notizie/spazio_astronomia/2019/02/07/da-una-catastrofe-cosmica-due-pianeti-gemelli-diversi-_115f0ba7-1e76-4b1a-9a62-887016c960db.html);  
<http://www.tng.iac.es/news/2019/02/04/giant-impact/>)  
11/12/2018: the identity card of Kepler-1657b (“La carta d’identità di Kepler-1657b”  
<https://www.media.inaf.it/2018/12/11/kepler-1657b-aldo-bonomo/>)  
18/08/2018: "More water than expected on extrasolar planets" ("Acqua più abbondante del previsto nei pianeti extrasolari")  
[http://www.ansa.it/canale\\_scienza\\_tecnica/notizie/spazio\\_astronomia/2018/08/18/acqua-piu-abbondante-del-previsto-nei-pianeti-extrasolari\\_cef5fa51-181b-41d1-a356-672779a6f6ce.html](http://www.ansa.it/canale_scienza_tecnica/notizie/spazio_astronomia/2018/08/18/acqua-piu-abbondante-del-previsto-nei-pianeti-extrasolari_cef5fa51-181b-41d1-a356-672779a6f6ce.html)  
02/04/2018: interview on Rai-1 about the Earth-size planet with a Mercury-like composition K2-229b, [http://gallery.media.inaf.it/main.php/v/video/inafintv/Rai1/20180402\\_unomattina.mp4.html](http://gallery.media.inaf.it/main.php/v/video/inafintv/Rai1/20180402_unomattina.mp4.html)  
26/03/2018: A super-Earth with a super nucleus (“Una super-Terra con un super nucleo”,  
<https://www.media.inaf.it/2018/03/26/una-super-terra-con-un-super-nucleo/>)  
19/03/2018: A habitable planet hides as its star has a tantrum (“La stella fa le bizzes e il pianeta si nasconde”,  
<https://www.media.inaf.it/2018/03/19/kepler-2-3/>;  
<http://www.tng.iac.es/news/2018/03/21/k2/>)  
19/01/2018: The ultra short-period super-Earth K2-141b (“K2-141b: la Super-Terra dall’orbita ultra-breve”,  
<http://www.media.inaf.it/2018/01/19/k2-141b-orbita-ultra-breve-e-temperature-infernali/>;  
<http://www.tng.iac.es/news/2018/01/29/k2-141/>)  
7/04/2017: The violent migration of hot giants (“La migrazione violenta dei giganti caldi”,  
<http://www.media.inaf.it/2017/04/07/la-migrazione-violenta-dei-giganti-caldi/>)  
3/12/2015: interview with mediainaf about false positives among the Kepler giant planetary candidates (“Credevo fosse un Giove e invece era una stella”,  
<http://www.media.inaf.it/2015/12/03/kepler-falsi-positivi/>,  
<http://gallery.media.inaf.it/main.php/v/voci/interviste/20151203-aldo-bonomo.mp3.html>)  
27/01/2015: “Ah oui, je suis TrES léger!” (<http://www.media.inaf.it/2015/01/27/oh-oui-je-suis-tres-leger/>;  
<http://www.tng.iac.es/news/2015/02/03/exo-planet/>)  
17/09/2014: An inverted planetary system (“Un sistema planetario invertito”,  
<http://www.media.inaf.it/2014/09/17/un-sistema-planetario-invertito/>  
<http://www.tng.iac.es/news/2014/09/17/kepler101/>)  
2/07/2014: Different Twins (“Gemelli diversi”, <http://www.media.inaf.it/2014/07/02/gemelli-diversi/>;  
<http://www.tng.iac.es/news/2014/07/03/two-planets/>)  
2/06/2014: A megaEarth found by HARPS-N (“Una megaterra per HARPS-N”,  
<http://www.media.inaf.it/2014/06/02/una-megaterra-per-harps-n/>;  
<http://www.tng.iac.es/news/2014/06/02/harps-megaearth/>)  
14/06/2010: Rich exoplanet harvest for CoRoT (<http://cnes.fr/fr/web/CNES-fr/8576-gp-7-nouvelles-planetes-decouvertes-par-corot.php>)  
14/06/2010: interview together with prof. M. Deleuil and Dr. A. Santerne on France-3 about the discovery of seven CoRoT exoplanets

➤ **Talks at international or national meetings, conferences and workshops:**

22-24/09/2026: “Thirty years of the Telescopio Nazionale Galileo”, La Palma, Spain. Title: *The TNG fundamental contribution to exoplanet discoveries and science*, Invited talk

16-18/09/2026: “PLATO ESP 2026: Confronting planets across space and time”, Warwick, UK. Title: *Characterization of PLATO systems with a multi-technique approach for both individual system and global population studies*, Invited talk

6-10/10/2025: “51 Pegasi b: cool giant planets and their systems”, Observatoire de Haute Provence, France. Title: *Cold Jupiters and short-period small planets: friends, foes, or indifferent?*

16-21/06/2024: “EXOPLANETS V”, Leiden, Netherlands. Title: *Understanding the formation of small planets by searching for their cold giant siblings*.

14-16/05/2024: “ESP2024: PLATO Planetary Systems - formation to observed architectures”, Catania, Italy. Title: *Understanding the formation of small planets by searching for their cold giant siblings. The fundamental role of PLATO*

17-18/01/2024: “GaiaNIR: next astrometric mission”, Bologna, Italy. Title: *Characterization and occurrence rate of Jupiter and Saturn analogs to assess their impact on the formation of small and terrestrial inner planets. The crucial role of Gaia-NIR*, Invited talk

25-27/09/2023: “PLATO Science in Italy: ready to data exploitation?”, Catania, Italy. Title: *Frequency of Jupiter analogs in small planet systems to understand the formation of short-period super-Earths/sub-Neptunes and our Solar System. The fundamental role of PLATO*, Invited talk

06-10/02/2023: “Congresso Nazionale di Scienze Planetarie” (national congress of planetary science), Perugia, Italy. Title: *Search for and occurrence rate of Jupiter analogs in planetary systems with short-period sub-Neptunes*

22-24/07/2021: “Mathematics for Non-stationary Signals and Applications in Geophysics and Other Fields”, L'Aquila, Italy. Title: *Treatment of non-stationary noise signals for the detection and characterization of extrasolar planets*

21-23/10/2019: “Congresso Nazionale di Astrochimica e Astrobiologia (proto-)planetarie” (national congress of proto-planetary and planetary astrochemistry and astrobiology), Trieste, Italy. Title: *The composition of small planets with HARPS-N@TNG*

9/02/2018: “5 years of HARPS-N Science Workshop”, La Palma Island, Spain. Title: *Investigating giant planet migration history with HARPS-N eccentricity and obliquity measures*, Invited talk

12-15/09/2017: “Nuovi Attori per Nuovi Scenari dell'Astrofisica” (new actors for new scenarios of astrophysics), LXI Congresso Nazionale della Società Astronomica Italiana, Padova, Italy. Title: *La straordinaria diversità delle architetture dei sistemi planetari* (the extraordinary diversity of exoplanetary system architectures), Invited talk

16-21/07/2017: “Transiting Exoplanets”, Keele, UK. Title 1<sup>st</sup> talk: *Characterization of the K2-3 planetary system with 300 HARPS and HARPS-N radial velocities*. Title 2<sup>nd</sup> talk: *A Giano view of the atmosphere of the transiting hot Jupiter HD189733b*

1-3/03/2017: “La missione e le prospettive scientifiche del TNG nell'astrofisica del 2020”, (the mission and scientific perspectives of the TNG for the astrophysics in 2020), Padova, Italy. Title: *GAPS-2 The Origins: a new frontier with GIARPS*

21-23/06/2016: “4<sup>th</sup> CHEOPS Science Workshop”, Geneva, Switzerland. Title: *CHEOPS and the search for habitable planets*

5-9/10/2015: “Twenty years of giant exoplanets”, Observatoire de Haute Provence, France  
Title: *Structure and evolution of transiting giant planets: a Bayesian homogeneous determination of orbital and physical parameters*

29/06 - 03/07/2015: “From Super-Earths to Brown Dwarfs: who's who?”, Paris, France  
Title: *Structure and evolution of transiting giant planets: a Bayesian homogeneous determination of orbital and physical parameters*

5-7/11/2014: “La ricerca dei pianeti extrasolari in Italia” (the search for exoplanets in Italy), Roma, Italy. Title: *Results from CoRoT and Kepler*, Invited talk

5-7/11/2012: “GREAT-ESF Workshop. Gaia and exoplanets: great synergies on the horizon”, Turin, Italy. Title: *The impact of Gaia on the planet occurrence rates as derived from the space-based transit surveys Kepler and CoRoT*

19-21/10/2011: Atelier “Magnétisme stellaire et Planètes extrasolaires” (stellar magnetic activity and extrasolar planets), Observatoire de Haute Provence, France. Title: *L'activité et les mesures de transit* (stellar activity and transit observations)

14-17/06/2011: “Second CoRoT international Symposium”, Marseille, France. Title: *Frequency of small planets in the CoRoT fields of view*

16-18/09/2009: “Unsinkable Planets: telluric planet detection and stellar activity”, Exeter, UK. Title: *Detection of planetary transits in the presence of stellar microvariability*

➤ **Oral contributions at the following restricted meetings:**

27-29/04/2026: 24<sup>th</sup> GAPS Progress Meeting, Roma, Italy

2-5/02/2026: HARPS-N Collaboration in-person Meeting, Geneva, Switzerland

27-30/10/2025: 23<sup>rd</sup> GAPS Progress Meeting, Catania, Italy

13-15/10/2025: PLATO Week #16, Paris, France

16/09/2025: 3<sup>rd</sup> ESPLORA Progress Meeting, online

27-29/11/2024: 21<sup>th</sup> GAPS Progress Meeting, Milano, Italy

21-22/11/2024: 2<sup>nd</sup> ESPLORA Progress Meeting, Napoli, Italy

17-19/04/2024: 20<sup>th</sup> GAPS Progress Meeting, Padova, Italy

09/02/2024: 1<sup>st</sup> ESPLORA Progress Meeting, online

8-10/11/2023: 19<sup>th</sup> GAPS Progress Meeting, Torino, Italy

15-17/06/2021: HARPS-N GTO Science Meeting, online

9-11/12/2020: 17<sup>th</sup> GAPS Progress Meeting, online  
 4-6/05/2020: 16<sup>th</sup> GAPS Progress Meeting, online  
 4-6/12/2019: 15<sup>th</sup> GAPS Progress Meeting, Catania, Italy  
 8-10/05/2019: 14<sup>th</sup> GAPS Progress Meeting, Trieste, Italy  
 28-30/11/2018: 13<sup>th</sup> GAPS Progress Meeting, Napoli, Italy  
 14-16/05/2018: 12<sup>th</sup> GAPS Progress Meeting, Cagliari, Italy  
 8-10/11/2017: 11<sup>th</sup> GAPS Progress Meeting, Milano, Italy  
 15-17/05/2017: 10<sup>th</sup> GAPS Progress Meeting, Palermo, Italy  
 15/02/2017: 3<sup>rd</sup> ETAEARTH Progress Meeting, Bruxelles, Belgium  
 17-18/01/2017: GAPS Meeting on Atmospheres and Young Planets, Roma, Italy  
 24-26/10/2016: 9<sup>th</sup> GAPS Progress Meeting, Aosta, Italy  
 15-16/06/2016: Meeting INAF-Macroarea 2: Stelle, popolazioni stellari e mezzo interstellare, Bologna, Italy  
 6-8/04/2016: 8<sup>th</sup> GAPS Progress Meeting, Padova, Italy  
 15/02/2016: 2<sup>nd</sup> ETAEARTH Progress Meeting, Bruxelles, Belgium  
 4-7/11/2015: 7<sup>th</sup> GAPS Progress Meeting, Catania, Italy  
 22-24/04/2015: 6<sup>th</sup> GAPS Progress Meeting, Trieste, Italy  
 2/12/2014: PLATO 2.0 Transit Detection Workshop, Catania, Italy  
 22-24/10/2014: 5<sup>th</sup> GAPS Progress Meeting, Napoli, Italy  
 29-30/04/2014: 4<sup>th</sup> GAPS Progress Meeting, Milano, Italy  
 24-25/10/2013: 3<sup>rd</sup> GAPS Progress Meeting, Palermo, Italy  
 26-27/02/2013: Joint meeting of the ETAEARTH Consortium and HARPS-N/GTO Science Team, Roma, Italy  
 4-5/02/2010: CoRoT CEST Meeting, Paris, France  
 1-2/02/2010: CoRoT Transit Modeling Meeting, Berlin, Germany  
 4-5/11/2009: CoRoT CEST Meeting, Paris, France  
 8-9/06/2009: CoRoT CEST Meeting, Paris, France

### ➤ **Public outreach**

- Lectures and/or laboratories on exoplanets for high-school students at high-secondary schools in Torino (licei scientifici Majorana, Avogadro, Curie-Vittorini, Sant'Anna, istituto sociale; istituto istruzione superiore Plana; primo liceo artistico statale), Rivoli (liceo scientifico Darwin), Ventimiglia (liceo scientifico Aprosio), Savignano (liceo scientifico Marie Curie), Catania (istituto istruzione superiore Vaccarini), and at OATo, since 2013
- Lectures and laboratories on exoplanets within the MasterClass of Astronomy and Astrophysics for high-school students at Università di Torino, also valid as school-work alternation, since 2016
- Participation in the Astronomy Day for high-school students with a talk on exoplanets together with Prof. D. Gandolfi, Aula Magna Cavallerizza, Università di Torino (Torino, 17/11/2025)
- 6-hr courses on exoplanets for high-school students organized by the Scuola di Formazione Scientifica Luigi Lagrange at the Open011 Hotel Turin, also valid as school-work alternation (29/10/2022, 12/11/2022, 10/11/2023, 9/11/2024)
- Laboratory on exoplanets "Searching for New Worlds" at the INAF exhibition "Time machines: the journey through the universe starts with you" (03-05/2025), Officine Grandi Riparazioni, Torino
- Development of laboratories on exoplanets for high-school students, in collaboration with the Planetarium InfiniTo (see <https://ricerca.repubblica.it/repubblica/archivio/repubblica/2018/04/11/e-allalba-si-punta-il-telescopio-sul-sole55.html?ref=search>), since 2017

- Cycle of meetings, together with Prof. G. Puglisi, on "Il più grande spettacolo dopo il Big Bang" ("The greatest show after the Big Bang") for the university students of the CAMPLUS colleges, online meetings (April-May, 2020)
- Lecture "Dalla Terra alla Luna: 50 anni dallo sbarco" ("From the Earth to the Moon: 50 years since the Moon landing") for the high-school students of the liceo scientifico Sant'Anna (Torino, 29/03/2019)
- Contribution to the realization of the exhibition "Exoplanets: nuove terre inesplorate, l'antico mistero della vita" ("Exoplanets: new unexplored Earths, the old mystery of life") in collaboration with the Euresis Association, since August 2018 (see <https://euresis.org/mostre/2018-exoplanets/>); related conference in Torino (Piazza dei Mestieri on 17/09/2020)
- Public lecture along with the INAF President Prof. R. Ragazzoni on "Hunting for new worlds, in search of Earth 2.0" at the INAF exhibition "Time machines: the journey through the universe starts with you", Officine Grandi Riparazioni, Torino, 17/04/2025
- Public lectures at the Planetarium InfiniTo (Pino Torinese):
  - "Esopianeti ed esobiologia" ("Exoplanets and exobiology"); lecture along with Dr. M. Damasso, Prof. D. Gandolfi, and Dr. A. Sozzetti, aimed at the students of the Università di Torino, 03/03/2023
  - "La storia del telescopio spaziale Kepler, il più grande cacciatore di esopianeti" ("The history of the Kepler telescope, the greatest exoplanet hunter"), 18/11/2018;
  - "Esopianeti, alla ricerca di un'altra Terra" ("Exoplanets, discovering an Earth twin"), 17/10/2016
- Public lecture "I pianeti extrasolari. Altre terre nell'Universo?" ("The extrasolar planets. Other earths in the Universe?") at the Abbazia di Mirasole (Milano) on 19/10/2019
- Participation in the "Astronomy Variety Show" at the Planetarium InfiniTo, 7/10/2017
- Participation in some events of "The night of researchers", Torino, since 2013
- Lectures and guided tours of the solar telescope for high-school students at the INAF - Osservatorio Astrofisico di Catania (Catania, 2006-2007)

## ➤ Skills

- Scientific programming: IDL, Fortran, C; experience in High Performance Computing on grid infrastructures
- Observing (> 100 nights) with high-resolution spectrographs such as HARPS-N/GIANO-B@TNG (Observatorio del Roque de Los Muchachos, La Palma, Canary Islands), SOPHIE@OHP (Observatoire de Haute Provence, Saint-Michel l'Observatoire, France) and HARPS@ESO (European Southern Observatory, La Silla, Chile)
- Languages: Italian (mother language), English (advanced), French (upper intermediate)