

Curriculum Vitae Et Studiorum: ALESSANDRO SOZZETTI

Education: Ph.D. in Physics, University of Pittsburgh, USA (2005)
Master in Physics, University of Pittsburgh, USA (2002)
Laurea in Physics (grade: 110/110), Università degli Studi di Torino, Italy (1997)

Positions Held: Senior Researcher II Level, INAF – Osservatorio Astrofisico di Torino, 2016 - present
Researcher III Level, INAF – Osservatorio Astrofisico di Torino, 2011 - 2016
Fixed-term (TD) Researcher III Level, INAF – Osservatorio Astronomico di Torino, 2009 - 2011
Post-Doctoral Researcher, INAF - Osservatorio Astronomico di Torino, 2005-2009
Visiting Scientist, Harvard-Smithsonian Center for Astrophysics, 2005-2008
Research Scholar, Space Telescope Science Institute, 1998-2000

Appointments: Deputy Director (Vicario), INAF-Osservatorio Astrofisico di Torino (2019 - 2023); Member of INAF's Science Council (2018-2020); Member elected of INAF's Comitato Scientifico di Macroarea Tematica 2 - Stelle, Popolazioni stellari e mezzo interstellare (2015-2018)

National Scientific Qualification:

Full Professor: 29/03/2021 al 29/03/2030, Sector 02/C1 (Astronomy, Astrophysics, Physics of the Earth and Planets)

Areas of Expertise: stellar spectroscopy, astrometry, radial velocities, photometry

Research Activity: The detection, orbital, and physical characterization of extrasolar planetary systems, utilizing both ground-based and space-borne observatories and instrumentation across a wide range of wavelengths. The characterization of planet hosts (chemical composition, atmospheric and physical parameters), and their environment.

Project Coordination, Leadership, Membership: PI of the Keck/HIRES metal-poor planet survey (2003-2006); Manager of the astrometric processing unit on extrasolar planets within the Gaia Data Processing and Analysis Consortium pipeline (2006 – present); Science PI of the APACHE photometric transit survey (2012 - 2019); PI of the Global Architecture of Planetary Systems (GAPS) observing program with HARPS-N@TNG (2012 - 2017); Chairman of the GAPS Consortium (2017-2019); Co-I of the HARPS-N GTO Science Team (2012 – present); Chairman of the HARPS-N Consortium Science Team (2015-2017); INAF-OATo Research Unit (RU) Coordinator for PRIN-INAF (2008, 2010); Coordinator of the FP7-SPACE Collaborative Project ETAEARTH (2013-2017); Coordinator of WP2 (Spectroscopic detections) and of the Ground-based Photometric Detections element of WP3 (Transit Detections) of INAF's "Way to Other Worlds" (WOW) Progetto Premiale funding scheme (2012); Coordinator of WP4.3 (Inner Planets) of INAF's "FRONTIERA" Progetto Premiale funding scheme (2015); Co-I of ESA's PLATO M3 mission and collaborator of NASA's TESS mission; Member of the CHEOPS-IT Payload Team of ESA's CHEOPS S Mission; Co-I of 4 M3 ESA mission proposals (EChO, NEAT, SPICES, GAME); Co-PI/Co-I of 3 M4 ESA mission proposals (Theia, ARIEL, AGP); PI of the M7 ESA mission proposal Theia; Co-I of EChO and ARIEL ESA mission Phase A Studies and of ESA's Ariel M4 mission; PI of the ASI-INAF 2018 Project "An interdisciplinary pathway to the identification of Solar System analogs (TASSEL)" (2020-2023); Coordinator of INAF-OATo RU of PRIN-INAF 2019 PLATEA (2020 - 2023); Manager of WP3 "High-resolution spectroscopy in the nIR" of PRIN-INAF 2019 HOT-ATMOS (2020 - 2023); Co-I of the ESPRESSO GTO Consortium (2018 - present); Chairman of the ESPRESSO GTO Consortium Science Team (2022-2023); Co-Chair of the Panel on "Formation and Evolution of Planetary Systems", Science Vision & Infrastructure Roadmap of the ASTRONET Consortium for long-term planning and development of Astronomy in Europe (<https://www.astronet-eu.org/>, 2020-2022); Co-Chair of the "Galaxy, stellar and planetary formation and evolution" sub-group of the Astrophysics Working Group of the Italian Space Agency (2023 - present). PI of the PRIN MUR 2022 Project "The Demographics of Massive Planetary and Brown Dwarf Companions with Gaia DR3 (20229R43BH)" (2023 - present); PI of the Large Grante INAF 2023 Project "The Demographics of Planetary Systems with Solar System-Type Architectures (EXODEMO)" (2023 - present); PI of the Large Observing Programme "The Great HARPS-N hunt for

super-Earths and Neptunes interior to outer giant planets detected by Gaia” with HARPS-N@TNG (2023 - present).

Teaching, Supervision, Committees and Community Service: Past Supervisor of 34 undergraduate, 5 graduate students, and 7 post-doctoral fellows. Current Supervisor of 3 graduate students and 2 postdoctoral fellows. Member of 8 international PhD thesis defense committees. Member, Coordinator, and Facilitator of over a dozen scientific working groups. Member of the professional societies: AAS, SAIt, IAU. Expert reviewer for European Research Council Starting Grant (ERC-StG), Consolidator Grant (ERC-CoG), and Advanced Grant (ERC-AdG), FIRB/MIUR (Italy), ISF (Israel), NWO (The Netherlands), ANR (France), SNSF (Switzerland), and SFB (Austria) Grant Schemes. External reviewer for GTC Mexican TAC and OPTICON SOPHIE TAC, HST Mid-Cycle 25-26-27. ESO OPC Panelist (Period 95-96-97). Member of the TAC of the CHEOPS mission (AO-3, AO-4, AO-5 Cycles). Referee for Science, Nature Astronomy, ApJ, ApJS, AJ, PASP, MNRAS - MNRAS Letters, A&A - A&A Letters, and P&SS.

Scientific Contributions: 100 invited talks, lectures, and seminars (including 13 invited reviews), 34 contributed talks at international conferences and schools, science institutes and universities. Co-organizer/Co-Chair of 9 major conferences and 20 workshops and schools. Co-organizer of the Italian Advanced School on Exoplanetary Science Series. Chair of IAU Symp. 276, co-Chair of IAU Symp. 348. 313 refereed journal papers, including 1 review article (12% as leading author, 25% within the first four authors), with 32739 citations. Overall h-index = 70. 168 conference proceedings (including eight invited reviews) and technical notes. Contributor to the collective volumes “Astrometry for Astrophysics: Methods, Models, and Applications”, Cambridge University Press (2012), “Encyclopaedia of Astrobiology”, Springer (2011, 2015), “Handbook of Exoplanets”, Springer (2018).

Full Publication list available at:

[https://ui.adsabs.harvard.edu/search/fq=%7B!type%3Daqp%20v%3D%24fq_database%7D&fq_database=database%3A%20astronomy&q=author%3A\(%22sozzetti%22\)&sort=date%20desc%2C%20bibcode%20desc&p=0](https://ui.adsabs.harvard.edu/search/fq=%7B!type%3Daqp%20v%3D%24fq_database%7D&fq_database=database%3A%20astronomy&q=author%3A(%22sozzetti%22)&sort=date%20desc%2C%20bibcode%20desc&p=0)

Editorial Boards: Member of the Board of Scientific Editors, Monthly Notices of the Royal Astronomical Society. Editor of “Methods of Detecting Exoplanets”, “Astrophysics of Exoplanetary Atmospheres”, “Demographics of Exoplanetary Systems”, Astrophysics and Space Science Library, Springer (2016, 2018, 2022). Chief Editor of the Proc. of IAUS 276 Cambridge University Press (2011).

Selected Career Awards:

- 1) **2023 Lancelot M. Berkeley New York Community Trust Prize:** Gaia Collaboration, for highly meritorious work in advancing the science of astronomy (<https://www.cosmos.esa.int/web/gaia/news/2022-11-09-gaia-collaboration-to-receive-2023-berkeley-prize>)
- 2) **ESA Certificate:** "In recognition of the outstanding contribution to the Gaia mission", 2018
- 3) **NASA Group Achievement Awards:** ‘SIM Planet Finding Capability Study Team’, ‘Kepler Launch and Commissioning Team’, 2010
- 4) **SAO pre-Doctoral Fellowship**, Harvard-Smithsonian CfA, USA, 2002-2005
- 5) **Andrew Mellon pre-Doctoral Fellowship**, University of Pittsburgh, USA, 2001-2002
- 6) **Zaccheus Daniel pre-Doctoral Fellowship**, University of Pittsburgh, USA, 2001
- 7) **Astronomy Fellowship**, Osservatorio Astronomico di Torino, Italy, 1997-1998