

CURRICULUM VITÆ ET STUDIORUM

Alessandra Rotundi

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Born in Rome on the 27th of October 196-----; nationality Italian; _____.

Present Position

Full Professor, Astronomy & Astrophysics at the University of Naples "Parthenope", Dept. of Science and Technology.

Associate to Istituto Nazionale di AstroFisica - Istituto di Astrofisica e Planetologia Spaziali.

Appointments/Invitations

- Vice-President of the "Società Italiana di Scienze Planetarie" (2022).
- Member of the committee for the selection of the Presidents of the Public Research Institutes, supervised by the Italian Minister of Education, University and Research (MIUR) – 2018-19.
- Member of the committee for the review of the allocation process of the NASA/Stardust Sample (2018).
- Invited by the University of Paris-Sud as a "Professeur Invités" in the frame of the "Observatoire des Sciences de l'Univers de l'Université Paris-Sud (OSUPS)" program (July 2017).
- Member of the Planetary Science Working Group of the Italian Space Agency (ASI) (2016).
- Member of the selecting committee to assign the Tacchini Award for the best national PhD thesis in Astrophysics (2016).
- Member of the "Expert Board" supervising the work in the MiARD H2020 program (since August 2015).
- Member of the "Scientific Advisory Committee" for the AHEAD program in the H2020 frame (since October 2015).
- Member of the national board for industrial research: Albo Esperti Ricerca Industriale - D.Lgs. 297/1999, (2015)
- Part of the board selecting proposal in the frame of the SIR (Scientific Independence of young Researchers) program (2014/2015).
- Expert Consultant of the ESA "Solar System Exploration Working Group", 2011-14.
- Minister of Instruction University and Research (MIUR) Expert Consultant, from 2014.
- Expert Consultant for the evaluation of the National Program of Space Research (PRORA), 2013-2016.
- "Associated Partner", i.e. recognised expertise in the area of "astrobiology and planetary sciences" identified by the Steering Committee as important contributors to the AstRoMap project (2013).
- Reviewer part of the "Evaluation Group of Experts" in the physics area (GEV 02) for the Research Quality Evaluation (VQR) 2004-2010, ANVUR (2012/13).
- Member of the Committee for selecting Research Projects of INAF-PRIN/INAF, 2011.
- Member of the Committee for the Selection of the INAF Institutes Directors, 2011.
- Member of the Joint Committee INAF-ASI, 2011 – 2012.
- Member of the European Task Force for Laboratory Astrophysics, since 2011.
- Principal Investigator of the GIADA instrument on-board the Rosetta/ESA space mission (since 2010).

- Member of the Technical Scientific Council of the Italian Space Agency (ASI), 2007/08.
- Chairperson in the Commission for the ASI competition Mission of Opportunity, 2008.
- National Coordinator of the Project (PRIN/MIUR 2008) Primitive Extra-terrestrial Material as clues to the origin and evolution of the Early Solar System.
- Member of the Preliminary Examination Team selected by NASA for the first analyses of the cometary samples returned to Earth by the Stardust/NASA S/C (2006).
- Founding member of the Italian Society of Astrobiology (since 2007).
- Director at the University of Naples “Parthenope” for the National Astronomy and Astrophysics University Network (now National Association of Astrophysics University Professors) (since 2003).

Reviewer for scientific national and international proposals:

NASA/Laboratory Analysis of Returned Samples, Polish National Science Centre, German Research Foundation, Swiss National Science Foundation (SNSF), MIUR.

Since 2006 Responsible of the following Research Funds:

- Italian Space Agency, "Extraterrestrial dust analyses", 2009.
- PRIN/MIUR 2005, (Responsible of the Research Unit), "Laboratory simulations of the interstellar grains evolution & analysis of extraterrestrial samples.", 2006-2008.
- Legge 5/annual. 2005, Regione Campania “Laboratory analysis of dust from space” (2010).
- Relevant bilateral research projects (Italy-USA), co-funded by Ministero degli Affari Esteri "VESUVIO-DUSTER", 2011.
- Relevant bilateral scientific and technological projects (Italy-USA), co-funded by Ministero degli Affari Esteri "VESUVIO-DUSTER", 2012.
- Italian Space Agency, contract n. I/032/05/0, "GIADA instrument onboard Rosetta/ESA space mission", 2010 – 2012.
- PRIN/MIUR 2008, (National Coordinator), " Materiale Extraterrestre Primitivo come memoria dei processi evolutivi nel Sistema Solare primordiale.", 2010-2012.
- Italian Space Agency, "DUSTER - Dust in the Upper Stratosphere Tracking Experiment and Return", 2015.
- Relevant bilateral scientific and technological projects (Italy-USA), co-funded by Ministero degli Affari Esteri "VESUVIO-DUSTER", 2013.
- Piano Nazionale Ricerca Antartide/PdR 2013/AZ.2/Antarctic Micrometeorites, 2013.
- Piano Nazionale Ricerca Antartide/PdR 2016/Antarctic Micrometeorites, 2016.
- Dipartimento di Scienze e Tecnologie, Università degli Studi di Napoli “Parthenope”, Study and development of instrumentation for space and atmospheric probes, 2017.
- Italian Space Agency, contract n. I/024/12/0, GIADA instrument onboard Rosetta/ESA space mission, 2012- 2020.
- EURO-CARES (European Curation of Astromaterials Returned from Exploration of Space) is a three-year, multinational project, funded under the European Commission's Horizon2020 research program, (2015 – 2017).
- “Spectroscopy of Planetary and Atmospheric particulate by optical Tweezers – SPACE Tweezers”, (2019-2021).
- Italian Space Agency, contract n. 2020-4-HH.0, “Italian Participation in the ESA/Comet Interceptor F-class space mission”, 2020 – 2022.

Career

1990 BS degrees in Physics (110/110) at University of Rome “La Sapienza”

1991 Fellowship to work for HASI, instrument part of the Cassini space mission.

1991 ESA Fellowship awarded in the frame of the Cassini space mission, but declined for the PhD fellowship in Naples, Italy.

1991 - 1994 PhD in Aerospace Engineering at University of Naples “Federico II”.

1995 Post Doc Fellow at INAF – Naples Astronomical Observatory.

1996 fellowship to work for one month at the Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, USA.

1996 Research contract at INAF – Naples Astronomical Observatory.
 1996 Researcher at the University of Naples “Parthenope”, Dept. of Applied Sciences.
 2007 Professor at the University of Naples “Parthenope”, Dept. of Applied Sciences.
 2013 Full Professor at the University of Naples “Parthenope”, Dept. of Science and Technology

Awards:

- “Premio Leonardo Renaissance Mediterraneo”, January 2007,
<http://ricerca.repubblica.it/repubblica/archivio/repubblica/2007/01/25/il-premio.html>.
- Appointed as one of the 50 women in the world whose achievements stood out in 2017,
<http://www.corriere.it/eventi-2017/donne-del-2017/index.shtml#0>.
- "Premio "OLTRE L'ORIZZONTE", un riconoscimento a personalità che nella loro attività professionale e di impegno civile si sono particolarmente distinte quali "sostenitrici dell'arte e della cultura" per diffondere messaggi di pace e di fratellanza universale (ottobre 2022).

Responsibilities in space and laboratory projects:

Deputy-PI of DISC (Dust Impact Sensor and Counter) part of the payload onboard the Comet Interceptor/ESA F-class Space Mission
 PI of the GIADA (Grain Impact Analyser and Dust Accumulator) instrument successfully flown on-board the ESA/Rosetta space mission for cometary dust characterization.
 PI of LANDS, the only Italian project selected by NASA as part of the Stardust space mission Preliminary Examination Team (PET).
 Responsible for the project “Production & Characterisation of Comet Dust Analogues for the ESA/Rosetta space mission”.
 PI of the successful proposal to NASA Extraterrestrial Curation Sample Center for the Laboratory characterization of Interplanetary Dust Particles (IDPs) collected by NASA stratospheric aircraft.
 PI of the project “Combined non-destructive analytical techniques on Stardust cometary samples after PET”.

Participating to the following space projects:

Co-I of the SimbioSys instrument on-board the BepiColombo/ESA space mission (since 2004).
Science Manager of the DUSTER instrument on-board stratospheric balloons to collect extra-terrestrial dust (since 2005).
Co-I of the CORSAIR/NASA proposal for a comet sample return space mission (2011-2017).
Co-I of two ISO (Infrared Space Observatory) observational programs (1997-1998).

Abroad Research Activity, Measurements & Observational Campaigns:

Jan. 2006	Stratospheric Balloon Flight Campaign for the DUSTER instrument, “Esrangle” space launch base, Kiruna, Sweden.
March 2006	Analyses Planning and Stardust cometary particles withdrawal, at NASA/“Johnson Space Center”, Houston, Texas, USA.
June 2008	Stratospheric Balloon Flight Campaign for the DUSTER instrument, Svalbard islands, Norway.
June 2009	Stratospheric Balloon Flight Campaign for the DUSTER instrument, Svalbard islands, Norway.
Mar./Apr 2011	Stratospheric Balloon Flight Campaign for the DUSTER instrument, “Esrangle” space launch base, Kiruna, Sweden.
June 2014	Stratospheric Balloon Flight Campaign for the DUSTER instrument, Svalbard islands, Norway
July 2017	Micrometeorites Measurements at synchrotron, “SOLEIL”, Orsay, France.
Sept. 2019	Stratospheric Balloon Flight Campaign for the DUSTER instrument, “Esrangle” space launch base, Kiruna, Sweden.
Sept. 2021	Stratospheric Balloon Flight Campaign for the DUSTER instrument, “Esrangle” space launch base, Kiruna, Sweden.

Congress/Conferences

42 Public/Educational Invited Conferences.

33 International Congresses Invited Oral Presentations.

14 International Congresses Invited to be part of the Scientific Organising Committee/Session Convener.

5 International Congresses/Workshops as part of the Organising Committee.

7 International Congresses/Workshops as Session Convener.

Referee for the following International Journals:

Monthly Notices of the Royal Astronomical Society, Meteoritic & Planetary Science, Planetary and Space Science, Astronomy & Astrophysics, Atmospheric Measurements Techniques Discussion, Icarus, Astrophysical Journal Lett, IEEE Transactions on Aerospace and Electronic Systems.

Publications

- **154** papers on referred international journals.
 - **198** non-referred international publications.
 - **6** Public Outreach papers (1 in French, 5 in Italian).
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

18/06/2023

Alessandra Rotundi