



Prof. Dr. Pascale Ehrenfreund

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International Space University
1, Rue Jean-Dominique Cassini
67400 Illkirch-Graffenstaden, France

Languages: German, English, French, Dutch
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Academic Education:

- 2008 **M.A. Management & Leadership**
Webster University, Leiden
Title: *Managing Global Space Exploration*, GPA: 3.83
- 1999 **Habilitation in Astrochemistry**
University of Vienna
Title: *Cosmic Dust*
- 1990 **PhD Astrophysics**
University Paris VII, Groupe de Physique des Solides, and University of Vienna
Title: *Visible and Infrared Spectroscopic Studies of Polycyclic Aromatic Hydrocarbons and other Carbon Clusters*
- 1988 **M.S. Molecular Biology**
Austrian Academy of Sciences, Institute of Molecular Biology, Salzburg
Title: *Purification and properties of an Iminopeptidase from Streptomyces plicatus*
- 1983-1988 **Biology/Genetics and Astronomy**
University of Vienna

Professional Experience:

- 2021- **President**, International Space University, Strasbourg, France
- 2008- **Research Professor**, Space Policy & International Affairs,
Elliott School of International Affairs, George Washington University, USA
- 2006- **Professor**, Astrobiology, University of Leiden, The Netherlands
- 2015-2020 **Chair of the Executive Board**, German Aerospace Center
- 2013-2015 **President**, Austrian Science Fund FWF
- 2008-2017 **Lead Investigator**, NASA Astrobiology Institute, Node Wisconsin
- 2005-2008 **Distinguished Visiting Scientist/Consultant**, JPL/Caltech, Pasadena, USA
- 2004-2005 **Professor**, Astrobiology, University of Leiden, Institute of Chemistry, The Netherlands
- 2003-2004 **Professor**, Astrobiology, University of Amsterdam, The Netherlands
- 2002-2008 **Adjunct Professor**, Univ. Nijmegen, Institute of Astronomy, The Netherlands
- 2001-2003 **Associate Professor**, Leiden Observatory, The Netherlands

Memberships in Academies and Committees (currently active):

2022-	President , Committee on Space Research COSPAR
2022-	Member, Board of Directors , Space Foundation
2022-	Member , Karista/Cosmocapital, Strategic Committee
2020-	Special Advisor to Vice President Maroš Šefčovič : Foresight, European Commission
2020-	Member : World Economic Forum, Global Future Council on Space
2020-	Sigma Xi , The Scientific Research Honor Society, Full Member
2020-	External Review Committee (ERC), MIT Portugal Program
2018	Honorary Member , Académie de l'Air et de l'Espace

Memberships in national and international Committees (completed):

2019-2022	President , International Astronautical Federation IAF
2015-2021	Board of Trustees , Universities Space Research Association USRA , Region III
2018-2021	Chancellor , International Space University ISU
2018-2020	Chair , European Space Research Establishment ESRE
2016-2019	Vice President , International Astronautical Federation: <i>Communication, Publications and Global Conferences</i>
2016-2018	Vice Chancellor , International Space University
2015-2020	Vice President , Helmholtz Association (Aeronautics, Space and Transport)
2010-2019	Chair , Committee on Space Research COSPAR Panel on Exploration PEX
2013-2015	Member , Horizon2020 Space Advisory Group SAG, European Commission
2013	Member , Independent Assessment Team (ITA), NASA Mars Rover 2020, USA
2012-2014	Member , National Research Council: Committee on Human Spaceflight, USA
2012-2017	President , IAU International Astronomical Union, Commission 51
2012-2018	Member , NRC Committee on Astrobiology and Planetary Science CAPS, USA
2012-2013	Member , FP7 Space Advisory Group – Subcommittee on Horizon2020-Space
2011-2013	Member , European Commission: FP7 Space Advisory Group SAG
2011-2015	Member , Eidgenössische Kommission für Weltraumfragen CFAS, Switzerland
2009-2011	Steering Committee , National Research Council NRC, Planetary Decadal Survey
2009-2012	Vice President , IAU International Astronomical Union, Commission 51
2008-2014	Treasurer , ISSOL International Astrobiology Society
2005-2009	Member , European Science Foundation/ European Space Science Committee: <i>“Steering group on Science-driven Scenario for Exploration”</i>
2001-2013	Vice President , European Astrobiology Network Association EANA
2004-2007	Member , Life Science Working Group LSWG, European Space Agency ESA
2003-2007	Member , European Science Foundation/European Space Science Committee: <i>“Steering group on Funding of European Space Research”</i>
2004-2006	Member , Life and Physical Science Advisory Committee LPSAC, ESA
2004-2006	Chair , Organic Working group and Member: ESA Pasteur Working Group
2003-2006	Member , US Space Studies Board Committee: Origins and Evolution of Life, USA
2002-2006	Chair , Life Science Panel, European Science Foundation/ESSC
2002-2005	Member , Scientific Advisory Board: SRON (Dutch Space Agency), The Netherlands
2001-2006	Member , SETI Strategic Planning group: Extraterrestrial Organic Chemistry

Research Expertise: Astrophysics, Space Exploration, Space Policy, S & T Policy:

per December 2022

Publications in peer-reviewed journals: 211

h-index: 73

Invited reviews, book chapters and conference papers: 136

Edition of books: 12

Space Research Responsibilities:

2022-	Advisory Board , European Research Institute for Space Resources (ERIS)
2021-	Science Team Member , Abzu: Improved Mars life-detection strategy mission concept, NASA Ames Research Center
2015-2018	Head of Delegation to the ESA Council, German Aerospace Center, Germany
2014-2018	FP7 Framework Consortium: MASE Mars Analogues for Space Exploration
2011-2014	Science Team Member: MarcoPolo-R Asteroid Sample Return, ESA Cosmic Vision M3
2010-2015	Science Team Member: OREOCube , International Space Station
2010-2015	Science Team Member: EXPOSE-R2 , International Space Station
2008-2013	NASA Project Scientist: O/OREOS Satellite
2005-	Science Team Member: Mars Organic Molecule Analyser MOMA , ExoMars
2005-2012	Science Team Member: Life Marker Chip , ExoMars
2003-2009	NASA Deputy Principal Investigator: Urey Life Detection Instrument , ExoMars
2000-2010	Principal Investigator: RCL- Recognized Cooperating Laboratory , Mars-Express
2000-2006	Co-Investigator: Advanced Microcamera Imaging Experiment , SMART-1
2000-2007	Principal Investigator: Photostability of complex organics in space , BIOPAN V
1996-2013	Principal Investigator: Evolution of organic matter in space , EXPOSE-R
1996-	Rosetta, Comet rendezvous mission/Science Team: Evolved Gas Analyser COSAC; Micro-Imaging Dust Analysis System MIDAS
1994-2000	Science Team, Infrared Space Observatory ISO: Solid state database for ISO
1991-1993	Interface Scientist: Aerosol Collector Pyrolyser , Cassini-Huygens

Fellowships, Prizes & Awards:

2023	Stanford University's Top 2% Scientists
2022	Polarstern Preis , Österreichisches Weltraum Forum
2022	Harrie Massey Award , COSPAR
2020	Jean Dominique Cassini Medal , European Geophysical Union
2020	Women in Aerospace Europe , Outstanding Achievement Award
2019	Chevalier of the Legion of Honour , France
2011	NASA Group Achievement Award for the O/OREOS Satellite mission
2008-2018	Lead Investigator , NASA Astrobiology Institute grant, Node Wisconsin, USA
2001-2006	New Impulse grant, NWO, The Netherlands
2001	Pastoor-Schmeits Prize for Astronomy, The Netherlands
1999	Asteroid 9826 Ehrenfreund 2114 T-3
1999-2001	NOVA fellow (Netherlands Research School for Astronomy), The Netherlands
1996-1999	APART Prize , Austrian Academy of Science, Austria
1994-1996	Postdoc fellowship , Marie Curie, European Commission
1991-1993	Postdoc fellowship , Centre national d'études spatiales CNES, France
1990-1991	Postdoc fellowship , European Space Agency/Leiden Observatory, The Netherlands