



## Prof. Dr. Pascale Ehrenfreund

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**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:**

- 2022- **President**, Committee on Space Research COSPAR
- 2008- **Research Professor**, Space Policy & International Affairs,  
Elliott School of International Affairs, George Washington University, USA
- 2006- **Professor**, Astrobiology, University of Leiden, The Netherlands
- 2021-2023 **President**, International Space University, Strasbourg, France
- 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):**

2023-	<b>Co-Chair</b> , Global Future Council on Space, World Economic Forum
2023-	<b>Member</b> , Jet Propulsion Laboratory JPL, Advisory Council
2022-	<b>Board of Directors</b> , Space Foundation
2020-	<b>Special Advisor to Vice President Maroš Šefčovič</b> : Foresight, European Commission
2020-	<b>External Review Committee (ERC)</b> , MIT Portugal Program
2018	<b>Honorary Member</b> , Académie de l'Air et de l'Espace

## **Memberships in national and international Committees (completed):**

2022-2023	<b>Member</b> , Karista/Cosmocapital, Strategic Committee
2020-2022	<b>Member</b> , World Economic Forum, Global Future Council on Space
2019-2022	<b>President</b> , International Astronautical Federation IAF
2015-2021	<b>Board of Trustees</b> , Universities Space Research Association <b>USRA</b> , Region III
2018-2021	<b>Chancellor</b> , International Space University ISU
2018-2020	<b>Chair</b> , European Space Research Establishment ESRE
2016-2019	<b>Vice President</b> , International Astronautical Federation: <i>Communication, Publications and Global Conferences</i>
2016-2018	<b>Vice Chancellor</b> , International Space University
2015-2020	<b>Vice President</b> , Helmholtz Association (Aeronautics, Space and Transport)
2010-2019	<b>Chair</b> , Committee on Space Research COSPAR Panel on Exploration PEX
2013-2015	<b>Member</b> , Horizon2020 Space Advisory Group SAG, European Commission
2013	<b>Member</b> , Independent Assessment Team (ITA), NASA Mars Rover 2020, USA
2012-2014	<b>Member</b> , National Research Council: Committee on Human Spaceflight, USA
2012-2017	<b>President</b> , IAU International Astronomical Union, Commission 51
2012-2018	<b>Member</b> , NRC Committee on Astrobiology and Planetary Science CAPS, USA
2012-2013	<b>Member</b> , FP7 Space Advisory Group – Subcommittee on Horizon2020-Space
2011-2013	<b>Member</b> , European Commission: FP7 Space Advisory Group SAG
2011-2015	<b>Member</b> , Eidgenössische Kommission für Weltraumfragen CFAS, Switzerland
2009-2011	<b>Steering Committee</b> , National Research Council NRC, Planetary Decadal Survey
2009-2012	<b>Vice President</b> , IAU International Astronomical Union, Commission 51
2008-2014	<b>Treasurer</b> , ISSOL International Astrobiology Society
2005-2009	<b>Member</b> , European Science Foundation/ European Space Science Committee: <i>“Steering group on Science-driven Scenario for Exploration”</i>
2001-2013	<b>Vice President</b> , European Astrobiology Network Association EANA
2004-2007	<b>Member</b> , Life Science Working Group LSWG, European Space Agency ESA
2003-2007	<b>Member</b> , European Science Foundation/European Space Science Committee: <i>“Steering group on Funding of European Space Research”</i>
2004-2006	<b>Member</b> , Life and Physical Science Advisory Committee LPSAC, ESA
2004-2006	<b>Chair</b> , Organic Working group and Member: ESA Pasteur Working Group
2003-2006	<b>Member</b> , US Space Studies Board Committee: Origins and Evolution of Life, USA
2002-2006	<b>Chair</b> , Life Science Panel, European Science Foundation/ESSC
2002-2005	<b>Member</b> , Scientific Advisory Board: SRON (Dutch Space Agency), The Netherlands
2001-2006	<b>Member</b> , SETI Strategic Planning group: Extraterrestrial Organic Chemistry

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

per February 2024

**Publications in peer-reviewed journals: 216**

**h-index: 75**

**Invited reviews, book chapters and conference papers: 136**

**Edition of books: 12**

## **Space Research Responsibilities:**

2021-	<b>Science Team Member</b> , Abzu: Improved Mars life-detection strategy mission concept, NASA Ames Research Center
2022-2022	<b>Advisory Board</b> , European Research Institute for Space Resources (ERIS)
2015-2018	<b>Head of Delegation</b> to the ESA Council, German Aerospace Center, Germany
2014-2018	<b>FP7 Framework Consortium: MASE</b> Mars Analogues for Space Exploration
2011-2014	<b>Science Team Member: MarcoPolo-R</b> Asteroid Sample Return, ESA Cosmic Vision M3
2010-2015	<b>Science Team Member: OREOCube</b> , International Space Station
2010-2015	<b>Science Team Member: EXPOSE-R2</b> , International Space Station
2008-2013	<b>NASA Project Scientist: O/OREOS</b> Satellite
2005-	<b>Science Team Member: Mars Organic Molecule Analyser MOMA</b> , ExoMars
2005-2012	<b>Science Team Member: Life Marker Chip</b> , ExoMars
2003-2009	<b>NASA Deputy Principal Investigator: Urey Life Detection Instrument</b> , ExoMars
2000-2010	<b>Principal Investigator: RCL- Recognized Cooperating Laboratory</b> , Mars-Express
2000-2006	<b>Co-Investigator: Advanced Microcamera Imaging Experiment</b> , SMART-1
2000-2007	<b>Principal Investigator: Photostability of complex organics in space</b> , BIOPAN V
1996-2013	<b>Principal Investigator: Evolution of organic matter in space</b> , EXPOSE-R
1996-2023	<b>Rosetta, Comet rendezvous mission/Science Team: Evolved Gas Analyser COSAC; Micro-Imaging Dust Analysis System MIDAS</b>
1994-2000	<b>Science Team, Infrared Space Observatory ISO: Solid state database for ISO</b>
1991-1993	<b>Interface Scientist: Aerosol Collector Pyrolyser</b> , Cassini-Huygens

## **Fellowships, Prizes & Awards:**

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