** Prof. Dr. Pascale Ehrenfreund**

**Space Policy Institute International Space University**

**Institute for International Science**

**and Technology Policy**

**Elliott School of International Affairs**

**Languages:** German, English, French, Dutch

**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*
  1. **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):**

2021- **Sigma Xi**, The Scientific Research Honor Society, Full Member

2020- **Member:** World Economic Forum, Global Future Council on Space

2020- **Special Advisor:** Foresight, European Commission

2020- **External Review Committee** (ERC), MIT Portugal Program

2019- **President**, International Astronautical Federation IAF

2018 **Honorary Member,** Académie de l'Air et de l'Espace

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

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:

*Communication, Publications and Global Conferences*

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:

*“Steering group on Science-driven Scenario for Exploration”*

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:

*“Steering group on Funding of European Space Research”*

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, Biology, Space Policy, S & T Policy:**

**Publications in peer-reviewed journals: 206 h-index: 70**

**Invited reviews, book chapters and conference papers: 134 Edition of books: 12**

**Space Research Responsibilities:**

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/OREOSSatellite

2005- **Science Team Member**: Mars Organic Molecule Analyser MOMA, ExoMars2022

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:**

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 fellowhip**, European Space Agency/Leiden Observatory, The Netherlands