

## Curriculum Vitae Dariusz C. (Darek) Lis



### Education

- 1985 – 1989 University of Massachusetts, Amherst, Department of Physics and Astronomy, Ph. D.  
1981 – 1985 University of Warsaw, Department of Physics.

### Professional Experience

- 1989 – California Institute of Technology.  
Research Fellow in Physics 1989 – 1992; Senior Research Fellow in Physics (Research Assistant Professor) 1992 – 1998; Senior Research Associate in Physics (Research Professor) 1998 – 2015; Deputy Director, Caltech Submillimeter Observatory 2009 – 2014; Visiting Associate in Physics 2015 – 2020. Jet Propulsion Laboratory, Scientist 2019 –.
- 2014 – 2019 Sorbonne University (Pierre and Marie Curie University) and Paris Observatory. Professor (Professeur des universités 1ère classe); Director, Laboratory for Studies of Radiation and Matter in Astrophysics and Atmospheres (UMR 8112).
- 1985 – 1989 University of Massachusetts. Research Assistant, Five College Radio Astronomy Observatory.

### Visiting Appointments

- 2013 École normale supérieure. Visiting Professor (Professeur des universités 1ère classe invité).  
2011 University of Bordeaux 1. Visiting Associate Professor (Maître de conférences invité).  
2007 Paris Observatory. Visiting Senior Astronomer (Astronome invité).  
2003 Max Planck Institute for Radio Astronomy. Visiting Scientist.  
1992 – 1994 University of California, Los Angeles. Lecturer.  
1989 – 1991 Rensselaer Polytechnic Institute. Consultant (Postdoctoral Research Associate).

### Honors

- 2021 NASA Exceptional Scientific Achievement Medal.  
2021 Elected to the IAU Commission H2 Astrochemistry Organizing Committee.  
2014 NASA Group Achievement Award, U.S. Herschel HIFI Instrument Team.  
2010 NASA Group Achievement Award, Herschel HIFI Hardware Development Team.  
1985 Minister of Science and Higher Learning Fellowship, Poland.

### Research

Astrophysics and astrochemistry of the interstellar medium, star formation. Evolution of molecular complexity in astrophysical environments. Volatile composition of comets and the origin of Earth's oceans. Submillimeter heterodyne instrumentation. Cometary research featured on National Geographic, CBC Quirks & Quarks, and in Scientific American.

Publications: [Astrophysics Data System](#), 265 refereed publications, 13,100+ citations.

Books edited: Submillimeter Astrophysics and Technology: A Symposium Honoring Thomas G. Phillips, ASP (2009). Astrochemistry: Recent Successes and Current Challenges, Cambridge University Press (2006).

### Teaching

Sorbonne University: Ph.D. thesis co-advisor. California Institute of Technology: undergraduate Classical Mechanics and Electromagnetism and Atomic and Molecular Spectroscopy; mentored SURF students. University of California, Los Angeles: undergraduate Astronomy: The Nature of the Universe.

### Professional Affiliations

American Astronomical Society (Division of Planetary Sciences); International Scientific Radio Union; International Astronomical Union.