

Curriculum Vitae: Bruce T. Draine

- Address:** 108 Peyton Hall, Princeton University, Princeton, NJ 08544-1001
tel: (609) 258-3810 email: draine@astro.princeton.edu
- Born:** Calcutta, India; 1947 November 19
- Citizenship:** U.S.A.
- Degrees:** B.A., physics (high honors), Swarthmore College (1969)
M.Sc., experimental physics, Cornell University (1975)
Ph.D., theoretical physics, Cornell University (1978)
- Positions:** U.S. Peace Corps Volunteer, Nkwatia-Kwahu, Ghana (1969-71)
graduate student, Physics Dept., Cornell University (1971-77)
Center Fellow, Center for Astrophysics, Harvard Univ. (1977-79)
Member, Institute for Advanced Study (1979-80)
Long-term Member, Institute for Advanced Study (1980-82)
Assistant Professor, Dept. of Astrophysical Sciences, Princeton Univ. (1981-84).
Associate Professor, Dept. of Astrophysical Sciences, Princeton Univ. (1984-90).
Professor, Dept. of Astrophysical Sciences, Princeton Univ. (1990–)
Chair, Dept. of Astrophysical Sciences (1996–98)
Director, Princeton University Observatory (1996–98)
sabbatical leave, Arcetri Observatory, Florence (fall 1998)
W.M. Keck Distinguished Visiting Prof., Inst. for Advanced Study (fall 2004)
sabbatical leave, Arcetri Observatory, Florence (fall 2005)
Oort Professorship, Leiden University, Leiden (spring 2009)
sabbatical leave, Arcetri Observatory, Florence (fall 2012)
- Awards:** Alfred P. Sloan Research Fellowship (1982-86)
Dannie Heineman Prize for Astrophysics (2004)
Elected to U.S. National Academy of Sciences (2007)
Oort Lecturer, Leiden (April 2009)
Rossi Lectures, Arcetri (Nov. 2012)
Cecilia Payne-Gaposchkin Lecturer, Harvard (April 2014)
- Professional Associations:**
American Astronomical Society
International Astronomical Union
- National and International Teams and Committees (2005-):**
co-I, Spitzer Infrared Nearby Galaxies Survey (SINGS),
Spitzer Space Telescope Legacy Project, 2000–2007
co-I, Key Insights on Nearby Galaxies: A Far-Infrared Survey with Herschel
(KINGFISH), Herschel Space Observatory Key Program, 2008–
SOC, “The Evolving Interstellar Medium in the Milky Way and Nearby Galaxies”,
Pasadena, Dec. 2007
SOC, “Cosmic Dust – Near and Far”, Heidelberg, Sept. 2008
Heineman Prize Committee of the American Astr. Soc., 2008–2010
Astro 2010 Survey: Galactic Neighborhood Science Frontier Panel, 2009–2010
Annual Review of Astronomy & Astrophysics Editorial Committee, 2015-2019
Breakthrough Starshot Advisory Committee, 2016-

Field of Research: Theoretical Astrophysics

Heating, Cooling, and Chemistry of Interstellar Gas

Interstellar Gas Dynamics; Shock Waves

Radiative Transfer

Optics of Small Particles and Nanostructures

Methods for Computing Light Scattering from Arbitrarily-Shaped Targets

Physics of Interstellar Grains

Nucleation and Growth of Circumstellar and Interstellar Grains