# Curriculum Vitae: Bruce T. Draine

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**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)
sabattical leave, Arcetri Observatory, Florence (fall 1998)
W.M. Keck Distinguished Visiting Prof., Inst. for Advanced Study (fall 2004)
sabattical leave, Arcetri Observatory, Florence (fall 2005)
Oort Professorship, Leiden University, Leiden (spring 2009)

**Awards:**
Alfred P. Sloan Research Fellowship (1982-86)
Dannie Heinemann Prize for Astrophysics (2004)
Elected to National Academy of Sciences (2007)

**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
Heinemann Prize Committee of the American Astr. Soc., 2008–2010
astro 2010 Survey: Galactic Neighborhood Science Frontier Panel, 2009–2010

**Field of Research:** Theoretical Astrophysics

*Heating, Cooling, and Chemistry of Interstellar Gas*
*Interstellar Gas Dynamics; Shock Waves*
*Radiative Transfer*
*Optics of Small Particles*
*Methods for Computing Light Scattering from Arbitrarily-Shaped Targets*
*Physics of Interstellar Grains*
*Nucleation and Growth of Circumstellar and Interstellar Grains*