

Curriculum Vitae

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Education

- 1993 Ph. D. in Physics, University of California at Berkeley
- 1990 M. A. in Physics, University of California at Berkeley
- 1988 visiting student, Department of Theoretical Physics, Oxford University
- 1987 A. B. in Physics, Magna Cum Laude, Harvard College

Employment

- 2006-*present* Professor, Department of Astronomy,
University of Maryland, College Park, MD
- 2001-2006 Associate Professor, Department of Astronomy,
University of Maryland, College Park, MD
- 1996-2000 Assistant Professor, Department of Astronomy,
University of Maryland, College Park, MD
- 1994-1996 Postdoctoral Fellow, Theoretical Astrophysics Division,
Harvard-Smithsonian Center for Astrophysics, Cambridge, MA
- 1993-1994 Postdoctoral Researcher, Department of Astronomy,
University of California, Berkeley, CA

Honors, Prizes, and Fellowships

- 2003 Visiting Fellow, Princeton University Department of Astrophysical
Sciences (Spring semester)
- 2002 Visiting Fellow, Harvard University, Radcliffe Institute for Advanced Study
and Harvard-Smithsonian Center for Astrophysics (Fall semester)
- 2000 GRB Semester Research Award (University of Maryland)
University General Research Board faculty fellowship
- 1994-1996 Harvard-Smithsonian Postdoctoral Fellow
Center for Astrophysics prize postdoctoral fellowship
- 1992-1993 Zonta International Amelia Earhart Fellowship Award
for graduate study in aerospace-related science
- 1991 Roberts Prize (U. C. Berkeley)
University prize for Astronomy or Physics student
- 1989-1992 National Science Foundation Graduate Fellowship
- 1987 Phi Beta Kappa

Professional Appointments

Advisory Committees

1999	Member, Panel on Theory, Computation, and Data Exploration for the National Academy of Sciences/National Research Council Decadal Survey of Astronomy and Astrophysics
2002-2004	Member, Advisory Committee for the National Virtual Observatory Project
2003-2006	Member, Committee on Astronomy and Astrophysics of the National Academy of Sciences/National Research Council
2004-present	Member, Mathematical and Physical Sciences Advisory Committee, National Science Foundation

Organizing Committees

1997	Member, Scientific Organizing Committee for <i>The Dynamics of the Galaxy</i> meeting (Princeton, May 1997)
1997-1998	Member, Scientific Advisory Committee for the <i>Protostars and Planets IV</i> meeting (Santa Barbara, July 1998) and review volume
1999-2000	Co-Coordinator for the <i>Astrophysical Turbulence</i> workshop, Institute for Theoretical Physics (Santa Barbara, April-June 2000)
2003	Co-Chair, Scientific Organizing Committee for the <i>Star Formation in the Interstellar Medium</i> workshop (Lake Tahoe, CA, July 2003)
2006	Member, Scientific Organizing Committee for IAU Symposium 237: <i>Triggered Star Formation in a Turbulent ISM</i> (Prague, CZ, August 2006)

Research

Interests in theoretical and computational astrophysics, including:

- Formation of stars and planets
- Dynamics and thermodynamics of the interstellar medium
- Structure and evolution of spiral galaxies
- Physics of accretion/outflow systems
- Magnetohydrodynamic turbulence