

Rosanne Di Stefano

Curriculum Vitae

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Positions held:

Sept. 1996–present: *Lecturer*
Department of Astronomy, Harvard University.

Sept. 2004–July 2017: *Senior Astrophysicist*,
Smithsonian Astrophysical Observatory.

Sept. 1996–August 2004: *Astrophysicist*,
Smithsonian Astrophysical Observatory.

Sept. 1994–Aug. 1996: *Visiting Associate Professor*,
Department of Astronomy, Harvard University.

Sept. 1992–Aug. 1994: *Bunting Science Scholar*.

Sept. 1991–Aug. 1993: *Visiting Scientist*, M.I.T.

Sept. 1988–Oct. 1996: *Associate Professor of Physics*,
New York Institute of Technology.

Sept. 1982–Aug. 1988: *Assistant Professor of Physics*,
New York Institute of Technology.

Sept. 1982–Aug. 1991: *Visiting Scientist*, Institute for Theoretical
Physics, SUNY Stony Brook.

Degrees:

Ph.D.: 1982, SUNY Stony Brook.
M.A.: 1976, Columbia University.
B.A.: 1973, Queens College, CUNY.

Ph.D. dissertation:

Studies in Hamiltonian Analysis and Supersymmetry.

Awards and Honors :

- Elected to the Executive Committee of the *High Energy Astrophysics Division* of the *American Astronomical Society* (2011-2014)
- SAO Council (2004-2009); served as Vice Chair (2008)
- *Sigma Xi* National Lecturer (1995-1997)
- Bunting Science Scholar (1992 and 1993)
- President of the Long Island Chapter of the *Association for Women in Science* (1986)

Research interests:

- Trained in field theory and worked on constrained systems and supersymmetry including formulations of Einstein's theory that incorporate spin 3/2 particles, and supersymmetric Yang-Mills models. Present research interests include the following: binaries, triples and their evolution; models for the progenitors of Type Ia supernovae; luminous supersoft X-ray sources, quasisoft X-ray sources and their physical natures; X-ray binaries in external galaxies, especially the ways in which they influence and are influenced by their environments; gravitational microlensing, including by binaries, planets, and nearby stars and stellar remnants.

Experience in Education :

- Teaching: Numerous courses at Harvard, the New York Institute of Technology, and Tufts. For example, for almost twenty years I have taught a Harvard Summer School course that I designed to introduce talented high school students and undergraduates to research techniques. This course has been written up in the Harvard Gazette, and some of the students who took the course while in high school have gone on to careers in science.
- Student advising at Harvard, Tufts, and MIT. Supervised research by high school students in the *Research Science Institute*, run from MIT by the *Center for Excellence in Education*.
- Evaluation of Physics Programs: Assumed primary responsibility for the evaluation of four new physics courses, August 1991- December 1995. This project was sponsored by the NSF through the *Introductory University Physics Project* (IUPP). This work included developing methods of qualitative analysis. The results were published in *Physics Today*, *The Physics Teacher*, and *The American Journal of Physics*.
- Outreach: Public lectures include *Sigma Xi* public lectures on X-ray astronomy, given around the country. Designed a program that brought undergraduates into the Cambridge Public Schools to teach astronomy.

History of Science :

- Wrote the first comprehensive history of supersymmetry and supergravity, *Notes on the Conceptual History of Supersymmetry, Supergravity, and Superstrings*. It constituted a major portion of the book *Superworld*, edited by Kane and Shifman, World Scientific (2001).

Community Service :

- Organization of international conferences and workshops, e.g.: Lijiang Supernova Meeting, 2019, HEAD meetings, IAU 281 on the progenitors of Type Ia supernovae, in Padova, Italy (2011); a workshop on supersoft sources, held in Spain during the spring of 2009; a 4-month workshop at the *Kavli Institute for Theoretical Physics* in Santa Barbara (2007).
- Numerous review panels, including: HST, Chandra, WFIRST, NASA Fellowship Committees.
- LSST publications committee; PLAsTiCC.
- Service at the CfA includes: PAEC, CfA Fellowship Committee, Library Committee, Cafeteria Committee, SAO Council, organization of seminar series, mentorship of predoctoral students and Harvard graduate and undergraduates.