

Name:

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Professional Preparation

1993 University of California, Berkeley	Ph.D. (Physics)
1985 Dartmouth College	A.B. <i>Magna cum laude</i> (Physics, with High Honors)

Employment:

8/2005 - present	Professor of Physics and Astronomy
12/2001 - 8/2005	Associate Professor of Physics and Astronomy
12/1995 - 12/2001	Assistant Professor of Physics, California Institute of Technology
12/1993 - 12/1995	Robert A. Millikan Research Fellow, California Institute of Technology
1/1988 - 11/1993	Research Assistant, Space Sciences Laboratory and Department of Physics University of California, Berkeley

Fellowships and Awards:

2008 - Named one of America's Best Leaders, U.S. News and Kennedy School of Government
2000 - Presidential Early Career Award
1993 - Robert A. Millikan Prize Fellowship in Experimental Physics
1989 - 1992 NASA Graduate Student Research Fellow
1985 - Phi Beta Kappa
1985 - High Honors in Physics, Dartmouth College

Hardware Projects:

Principal Investigator: *Nuclear Spectroscopic Telescope Array (NuSTAR)* Small Explorer
Principal Investigator: NASA *High-Energy Focusing Telescope* Balloon Payload

Research Interests:

Stellar-mass and supermassive black holes; gamma-ray bursts; supernovae
Detector and optics development for high-energy astrophysical telescopes

Professional Service (selected):

National Academies Space Studies Board
Beyond Einstein Program Assessment Committee (NRC)
From Quarks to the Cosmos NRC Study
Spitzer Science Center and Michelson Science Center Oversight Committees

Institute Service (selected):

Member, Presidential Search Committee
Co-chair, Physics Staffing committee; Chair, Caltech Observatory Council

Graduate Students:

Peter Mao (PhD 2002), Sarah Yost (PhD 2004), Megan Eckart (PhD 2006)
Hubert Chen (PhD 2008), Brad Cenko (PhD 2008) Varun Bhalerao

Affiliations:

American Astronomical Society, American Physical Society

Publications in unrefereed journals and conference proceedings indicated by a *.
Selected conference papers only.

Publications

- [1] A. Gal-Yam, E. Nakar, E. O. Ofek, S. B. Cenko, S. R. Kulkarni, A. M. Soderberg, F. Harrison, D. B. Fox, P. A. Price, B. E. Penprase, D. A. Frail, J. L. Atteia, E. Berger, M. Gladders, and J. Mulchaey. New Imaging and Spectroscopy of the Locations of Several Short-Hard Gamma-Ray Bursts. *ApJ*, 686:408–416, October 2008.
- [2] P. Chandra, S. B. Cenko, D. A. Frail, R. A. Chevalier, J.-P. Macquart, S. R. Kulkarni, D. C.-J. Bock, F. Bertoldi, M. Kasliwal, D. B. Fox, P. A. Price, E. Berger, A. M. Soderberg, F. A. Harrison, A. Gal-Yam, E. O. Ofek, A. Rau, B. P. Schmidt, P. B. Cameron, L. L. Cowie, A. Cowie, K. C. Roth, M. Dopita, B. Peterson, and B. E. Penprase. A Comprehensive Study of GRB 070125, A Most Energetic Gamma-Ray Burst. *ApJ*, 683:924–942, August 2008.
- [3] S. B. Cenko, J. Kelemen, F. A. Harrison, D. B. Fox, S. R. Kulkarni, M. M. Kasliwal, E. O. Ofek, A. Rau, A. Gal-Yam, D. A. Frail, and D. . Moon. Dark Bursts in the Swift Era: The Palomar 60 inch-Swift Early Optical Afterglow Catalog. *ArXiv e-prints*, August 2008.
- [4] S. B. Cenko, D. B. Fox, B. E. Penprase, A. Cucchiara, P. A. Price, E. Berger, S. R. Kulkarni, F. A. Harrison, A. Gal-Yam, E. O. Ofek, A. Rau, P. Chandra, D. A. Frail, M. M. Kasliwal, B. P. Schmidt, A. M. Soderberg, P. B. Cameron, and K. C. Roth. GRB 070125: The First Long-Duration Gamma-Ray Burst in a Halo Environment. *ApJ*, 677:441–447, April 2008.
- [5] D.-S. Moon, D. L. Kaplan, W. T. Reach, F. A. Harrison, J.-E. Lee, and P. G. Martin. The Rich Mid-Infrared Environments of Two Highly Obscured X-Ray Binaries: Spitzer Observations of IGR J16318-4848 and GX 301-2. *ApJ*, 671:L53–L56, December 2007.
- [6] S. B. Cenko, M. Kasliwal, F. A. Harrison, V. Pal’shin, D. A. Frail, P. B. Cameron, E. Berger, D. B. Fox, A. Gal-Yam, S. R. Kulkarni, D.-S. Moon, E. Nakar, E. O. Ofek, B. E. Penprase, P. A. Price, R. Sari, B. P. Schmidt, A. M. Soderberg, R. Aptekar, D. Frederiks, S. Golenetskii, D. N. Burrows, R. A. Chevalier, N. Gehrels, P. J. McCarthy, J. A. Nousek, and T. Piran. Multiwavelength Observations of GRB 050820A: An Exceptionally Energetic Event Followed from Start t o Finish. *ApJ*, 652:490–506, November 2006.
- [7] S. B. Cenko, D. B. Fox, D.-S. Moon, F. A. Harrison, S. R. Kulkarni, J. R. Henning, C. D. Guzman, M. Bonati, R. M. Smith, R. P. Thicksten, M. W. Doyle, H. L. Petrie, A. Gal-Yam,

- A. M. Soderberg, N. L. Anagnostou, and A. C. Laity. The Automated Palomar 60 Inch Telescope. *PASP*, 118:1396–1406, October 2006.
- [8] M. E. Eckart, D. Stern, D. J. Helfand, F. A. Harrison, P. H. Mao, and S. A. Yost. The Serendipitous Extragalactic X-Ray Source Identification (SEXSI) Program. III. Optical Spectroscopy. *ApJS*, 165:19–56, July 2006.
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- [10] E. Berger, S. R. Kulkarni, D. B. Fox, A. M. Soderberg, F. A. Harrison, E. Nakar, D. D. Kelson, M. D. Gladders, J. S. Mulchaey, A. Oemler, A. Dressler, S. B. Cenko, P. A. Price, B. P. Schmidt, D. A. Frail, N. Morrell, S. Gonzalez, W. Krzeminski, R. Sari, A. Gal-Yam, D.-S. Moon, B. E. Penprase, R. Jayawardhana, A. Scholz, J. Rich, B. A. Peterson, G. Anderson, R. McNaught, T. Minezaki, Y. Yoshii, L. L. Cowie, and K. Pimblet. Afterglows, Redshifts, and Properties of Swift Gamma-Ray Bursts. *Astrophysical Journal*, 634:501–508, November 2005.
- [11] D. Stern, S. A. Yost, M. E. Eckart, F. A. Harrison, D. J. Helfand, S. G. Djorgovski, S. Malhotra, and J. E. Rhoads. A Galaxy at $z = 6.545$ and Constraints on the Epoch of Reionization. *ApJ*, 619:12–18, January 2005.
- [12] M. E. Eckart, E. S. Laird, D. Stern, P. H. Mao, D. J. Helfand, and F. A. Harrison. The Serendipitous Extragalactic X-Ray Source Identification (SEXSI) Program. II. Optical Imaging. *ApJS*, 156:35–45, January 2005.
- [13] M. Sako, F. A. Harrison, and R. Rutledge. A Search for Discrete X-ray Spectral Features in a Sample of Bright Gamma-Ray Burst Afterglows. *ApJ*, 617, 2004.
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- [16] C. A. H. Chen, W. R. Cook, F. A. Harrison, and J.Y.Y Lin. Characterization of a large-format, fine-pitch CdZnTe pixel detector for the HEFT balloon-born experiment. *IEEE TNS*, 51:2472, 2003.
- [17] F. A. Harrison, M. E. Eckart, P. H. Mao, D. J. Helfand, and D. Stern. The Serendipitous Extragalactic X-Ray Source Identification (SEXSI) Program: I. Characteristics of the Hard X-Ray Sample. *ApJ*, 596:944, 2003.
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