

Brian Walko Grefenstette
Curriculum Vitae

California Institute of Technology
Space Radiation Laboratory
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Experience

- 10/2012 – Present Staff Scientist, Space Radiation Lab , California Institute of Technology
- 9/2009 – 10/2012 Postdoctoral Researcher, Space Radiation Lab,
California Institute of Technology
- 6/2009 – 9/2009 Postdoctoral Researcher, Santa Cruz Institute for Particle Physics,
University of California, Santa Cruz
- 9/2005 – 6/2009 Graduate Student Researcher, Santa Cruz Institute for Particle Physics,
University of California, Santa Cruz
- 9/2004 – 9/2005 Teaching Associate, University of California, Santa Cruz

Education

- 2009 Ph.D Physics University of California, Santa Cruz
- 2007 M.S. Physics University of California, Santa Cruz
- 2004 B.S. Physics Stanford University
Departmental Honors and Concentration in Astrophysics

Awards

- 2015 NASA Group Achievement Award: NuSTAR Science Operations Team
- 2015 NASA Group Achievement Award: NuSTAR Science Team
- 2014 NASA Group Achievement Award: NuSTAR Operations Team
- 2013 NASA Group Achievement Award: NuSTAR Instrument Team
- 2013 NASA Group Achievement Award: NuSTAR Science Commissioning
and Operations Team
- 2008 UC-Santa Cruz Chancellor's Dissertation Year Fellowship
- 2007 Outstanding Student Paper Award, American Geophysical Union Fall Meeting

Programming Languages/Environments

perl, python, IDL, MATLAB, FORTRAN, C, Mathematica, Unix/Linux, MacOS, Windows

Selected Refereed Publications

- Grefenstette, B. W., et al., "Locating the Most Energetic Electrons in Cassiopeia A" (2015),
ApJ, 802, 15
- Grefenstette, B. W., et al., "Asymmetries in core-collapse supernovae from maps of radioactive ^{44}Ti in Cassiopeia A" (2014), Nature, 506, 339
- Grefenstette, B. W., et al., "First RHESSI terrestrial gamma ray flash catalog" (2009), JGR
(Space Physics), 114, A02314

Grefenstette, B. W., et al., “Time evolution of terrestrial gamma ray flashes” (2008), GRL, 35, L06802

Perez, K., et al, “Extended hard-X-ray emission in the inner few parsecs of the Galaxy”, (2015), Nature 520, 646649

Bachetti, M., et al., “An ultraluminous X-ray source powered by an accreting neutron star” (2014), Nature, 514, 202

Boggs, S., et al., “ ^{44}Ti gamma-ray emission lines from SN1987A reveal an asymmetric explosion”, Boggs et al., Science 348(6), 670671 (2015)

Risaliti, G., H. et al., “A rapidly spinning supermassive black hole at the centre of NGC 1365” (2013), Nature, 494, 449

Harrison, F. A., et al. ”The Nuclear Spectroscopic Telescope Array (NuSTAR) High-energy X-Ray Mission” (2013), ApJ, 770, 103