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EDUCATION:

Ph.D. in Physics, 1992, University of Washington
- "Faint High Latitude Carbon Stars", Advisor: Bruce Margon

M.S. in Physics, 1989, University of Washington
B.A. in Physics, 1981, Oberlin College

RESEARCH & EMPLOYMENT:

Astrophysicist, Chandra Director's Office, Smithsonian Astrophysical Observatory, 2003-
Astrophysicist, Chandra Mission Planning, Smithsonian Astrophysical Observatory, 1996-2003
NASA Long Term Space Astrophysics Awardee, 1998-2003
Hubble Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics, 1993 – 1995
NSF-NATO Postdoctoral Fellow in Science and Engineering, Fall 1992
Research Assistant, University of Washington, 1987 – 1992

EDUCATION-RELATED EXPERIENCE:

Organizing Committee, *Cosmos in the Classroom Symposium*, Tufts U., 2004
Author, *Peer Instruction for Astronomy*
- Prentice-Hall 2002 Instructor's Guide
- Coordinator, ConcepTest Web Library, 1997-

Guest lecturer
- Introductory College Astronomy at Tufts & Harvard U.
- CfA Public Observatory Nights
- Boston-area K-12 classes

Ph.D. Thesis advisor, Daryl Haggard, 2007–2010
Ph.D. Thesis advisor, John Silverman, 2001–2004
Chair/Member SAO Predoctoral Research Committees
- Dae-Won Kim, 2010 – 2011
- Monica Young, 2007 – 2010
- Minsun Kim, 2004 – 2007
- Malgosia Sobolewska 2003
- Joanna Kuraszkiewicz, 1996-2000

Project Advisor, NASA REU Summer Intern Program, 1994, 2002, 2003, 2008
Astronomy Teaching Assistant, U.WA, 1986
Physics Teaching Assistant, Physics Ed. Group (w/ Lillian McDermott), U.Wa, 1984 – 1986
Secondary Physics Teacher (in French), Peace Corps, Togo, West Africa 1982 – 1984

COMMUNITY SERVICE:

NRAO Users Committee 2006 -2009
SAO Council 2004 - 2007

SAO Predoctoral Program Committee 2004
Data Policy Committee, CfA, 2000-2002
Editor, Author, Astronomy ConcepTests Web site
Referee for ApJ, AJ, A&A, MNRAS, Astronomy Education Review
TAC panels for NOAO, Chandra
Reviewer for NASA ADP, LTSA, U.S. Civilian Research and Development Foundation (CRDF)

PROFESSIONAL SOCIETIES:
American Astronomical Society
Astronomical Society of the Pacific

PUBLICATIONS

IN REFEREED JOURNALS:

• Green, P. J. et al. 2013, ApJ, submitted *Innocent Bystanders: Carbon Stars from the Sloan Digital Sky Survey*

○ Markos Trichas, **Paul J. Green**, et al. 2012, ApJS, 200, 17 *The Chandra Multi-wavelength Project: Optical Spectroscopy and the Broadband Spectral Energy Distributions of X-Ray-selected AGNs*

○ Saglia, Roberto, et al., 2012, ApJ, 746, 128 *The Photometric Classification Server for Pan-STARRS1*

• Green, P. J. et al. 2011, ApJ, 743, 81 *A Multiwavelength Study of Binary Quasars and their Environments*

○ Otto, Elizabeth, **Green, P.J.**, & Gray, R. 2011, ApJS, 196, 5 *Galactic S Stars: Investigations of Color, Motion, and Spectral Features*

○ Haggard, Daryl et al. 2010, ApJ, 723, 1447 *The Field X-ray AGN Fraction to z=0.7 from the Chandra Multiwavelength Project and the Sloan Digital Sky Survey*

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○ A. Constantin et al. 2009, ApJ, 705, 1336 *Probing the Balance of AGN and Star-Forming Activity in the Local Universe with ChaMP*

• P. J. Green et al. 2009, ApJ, 690, 644 *A Full Year's Chandra Exposure on SDSS Quasars from the Chandra Multiwavelength Project*

○ Covey, K. et al. 2008, ApJS, 178, 339 *The ChaMP Extended Stellar Survey (CHESS): Photometric and Spectroscopic Properties of Serendipitously Detected Stellar X-ray Sources*

○ J.D. Silverman et al. 2008, ApJ, 679, 118 *The Luminosity Function of X-Ray Selected Active Galactic Nuclei: Evolution of Supermassive Black Holes at High Redshift*

○ Kim, M. et al., 2007, ApJS, 169, 401 *Chandra Multiwavelength Project: X-ray Point Source Catalog*

○ Kim, M. et al., 2007, ApJS, 659, 29 *Chandra Multiwavelength Project: X-ray Point Source Number Counts and the Cosmic X-ray Background*

○ D.-W. Kim et al., 2006, ApJ, 644, 829 *Chandra Multiwavelength Project: Normal Galaxies at Intermediate Redshift*

• P. J. Green 2006, ApJ, 644, 733 *Lens-Aided Multi-Angle Spectroscopy (LAMAS) Reveals Small-Scale Outflow Structure in Quasars*

○ W. A. Barkhouse, **P. J. Green**, et al. 2006, ApJ, 644, 829 *ChaMP Serendipitous Galaxy Cluster Survey*

○ Brand, K. et al. 2005, ApJ, 626, 723, *Tracing the Nuclear Accretion History of the Red Galaxy Population*

◦ Kenter, A. et al. 2005, ApJS, 161, 9, *Chandra X-ray Survey of the 9 Square Degrees Boötes Field - Paper II - the Source list*

◦ Murray, S. et al., 2005, ApJ, submitted *XBootes: An X-ray Survey of the NDWFS Bootes Field Paper I - Overwiew and Initial Results*

◦ D. Stern et al. 2005, ApJL, submitted (astro-ph/0410523) *Mid-Infrared Selection of Active Galaxies*

• P. J. Green, L. Infante, S. Lopez, T. L. Aldcroft, & J. N. Winn, 2005, ApJ, 630, 142, *Discovery of a Galaxy Cluster in the Foreground of the Wide-Separation Quasar Pair UM 425*

◦ K. Brand et al., 2005, ApJ, 626, 723 *Tracing the Accretion History of the Red Galaxy Population*

◦ J. D. Silverman, P. J. Green, et al. 2005 ApJ, 624, 630 *Co-Moving Space Density of X-Ray-Selected Active Galactic Nuclei*

◦ J. D. Silverman, P. J. Green, et al. 2005 ApJ, 618, 123 *Hard X-Ray Emitting Active Galactic Nuclei Selected by the Chandra Multi-Wavelength Project*

◦ D. A. Schwartz et al, 2004, ApJL, 605, 105 *Discovery of a Jet-Like Structure at the High Redshift Quasar CXOMP J084128.2+131106*

◦ J. Kuraszkiewicz, P. J. Green, D. Michael Crenshaw, Jay Dunn, Karl Forster, Marianne Vestergaard, and Tom L. Aldcroft, 2004, ApJS, 150, 165 *Emission Line Properties of AGN from a post-COSTAR FOS HST Spectral Atlas*

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• P. J. Green & the ChaMP Collaboration, 2004, ApJS, 150, 43 *The Chandra Multiwavelength Project: Optical Followup of Serendipitous Chandra Sources*

◦ D.-W. Kim & the ChaMP Collaboration, 2004 ApJS, 150,19 *The Chandra Multiwavelength Project (ChaMP). I. First X-ray Source Catalog*

◦ D.-W. Kim & the ChaMP Collaboration, 2004 ApJ, 600, 59 *The Chandra Multiwavelength Project (ChaMP). II. First Results of X-ray Source Properties*

◦ T. L. Aldcroft & P. J. Green, 2003 ApJ, 592, 710 *Lens or Binary? Chandra Observations of the Broad Absorption Line Quasar Pair UM425*

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◦ J. Kuraszkewiecz, P. J. Green, K. Forster, T. Aldcroft, I. N. Evans & A. Koratkar 2002, ApJ, 143, 257 *Emission Line Properties of AGN from a pre-COSTAR FOS HST Spectral Atlas*

◦ with M. Markevitch, et al. 2003, ApJ, 583, 70, *Chandra Spectra of the Soft X-Ray Diffuse Background*

• P. J. Green, C. Kochanek, A. Siemiginowska, D.-W. Kim, M. Markevitch, J. D. Silverman, A. Dosaj, B. T. Jannuzi, & C. Smith 2002, ApJ, 571, 721, *Chandra Observations of the QSO Pair Q2345+007: Binary Quasar or Massive Dark Lens?*

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• P. J. Green, T. L. Aldcroft, S. Mathur, B. J. Wilkes & Martin Elvis 2001, ApJ, 558, 109 *A Chandra Survey of Broad Absorption Line Quasars*

◦ with Arav, N. et al. 2001, ApJ, 56, 118 *HST STIS Observations of PG 0946+301: The Highest Quality UV Spectrum of a BALQSO*

◦ S. Mathur, G. Matt, P. J. Green, M. Elvis, K. P. Singh 2001, ApJ Letters, 551, 13, *Surprises from a deep ASCA observation of a Broad Absorption Line Quasar PHL 5200*

◦ N. Christlieb, P. J. Green, L. Wisotzki, D. Reimers 2001, A&A, 375, 366 *The stellar content of the Hamburg/ESO survey. II. A large, homogeneously-selected sample of high latitude carbon stars*

• P. J. Green, K. Forster, & J. Kuraszkewiecz 2001, ApJ, 556, 727, *Quasar Evolution and the Baldwin Effect in the Large Bright Quasar Survey*

◦ K. Forster, P. J. Green, T. L. Aldcroft, M. Vestergaard, C. B. Foltz, & P. C. Hewett 2001, ApJS, 134, 35 *Emission Line Properties of the Large Bright Quasar Survey*

◦ with M. Cappi, et al. 2001, ApJ, 548, 624, *Chandra Study of an Overdensity of X-ray Sources Around Two Distant ($z \sim 0.5$) Clusters*

◦ J. D. Silverman, K. Eriksen, P. J. Green, & A. Prestwich, A. 2001, MNRAS, 323, 577, *Unprecedented X-ray Coverage of a Serendipitous Flare Star with ROSAT*

◦ S. Mathur, P. J. Green et al. 2000, ApJ, 533, 79, *Thomson Thick X-ray Absorption in a Broad Absorption Line Quasar PG0946+301*

• P. J. Green, B. Ali, & Ralf Napiwotzki 2000, ApJ, 540, 992 *Cool Companions to Hot White Dwarfs*

◦ with A. Riess, et al. 1999, ApJ, 117, 707, *BVRI Light Curves for 22 Type Ia Supernovae*

◦ R. Napiwotzki, P. J. Green, & R. A. Saffer 1999, ApJ, 517, 399 *A Comparative Study of the Mass Distribution of Extreme Ultraviolet-Selected White Dwarfs*

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◦ N. Schartel, P. J. Green, S. F. Anderson, P. C. Hewett, Craig B. Foltz, B. Margon, W. Brinkmann, H. Fink, & J. Trümper 1996, MNRAS, **283**, 1015, ROSAT *Soft X-Ray Properties of the Large Bright Quasar Survey: Modeling of Stacked X-ray Spectra.*

• P. J. Green 1996, ApJ, **467**, 61, *The Relationship Between the High Energy Continuum and Emission Lines in QSOs: A Low-Redshift Sample*

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• P. J. Green, Norbert Schartel, S. F. Anderson, P. C. Hewett, Craig B. Foltz, Henner Fink, Wolfgang Brinkmann, J. Trümper, & B. Margon 1995, ApJ, **450**, 51, *The Soft X-Ray Properties of a Large Optical QSO Sample:* ROSAT *Observations Of the Large Bright Quasar Survey.*

• M. deKool & P. J. Green 1995, ApJ, **449**, 236, *A Model for the Space Density of Dwarf Carbon Stars.*

• P. J. Green, B. Margon, S. F. Anderson, & Kem Cook 1994, ApJ, **434**, 319, *A CCD Survey for Faint, High Latitude Carbon Stars.*

• P. J. Green and B. Margon 1994, ApJ, **423**, 723, *Constraints on the Origin of Dwarf Carbon Stars.*

• P. J. Green, B. Margon, S. F. Anderson, and D. Jack MacConnell 1992, ApJ, **400**, 659, *Carbon Star Luminosity Indicators.*

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◦ P. M. Garnavich, A. Noriega-Crespo, and P. J. Green 1992, Rev. Mex. Astr. Astrofis., **23**, 99, *Wide Field Imaging of the Star Forming Region Lynds 1551.*

• P. J. Green, S. F. Anderson, and M. J. Ward 1992, MNRAS, **254**, 30, *A Compilation of Active and Normal Galaxies Observed in Both Infrared and X-Rays.*

• P. J. Green, B. Margon, and D. J. MacConnell 1992, ApJ Letters, **380**, L31, *Three Newly-Recognized Dwarf Carbon Stars.*

• P. J. Green and B. Margon 1990, PASP, **102**, 658, *Spectroscopy of Faint Halo Carbon Stars.*

• P. J. Green, M. Ward, S. F. Anderson, B. Margon, M. H. K. De Grijp, and G. Miley 1989, ApJ, **339**, 93, *Infrared-Selected 'Warm' Galaxies Observed in X-Rays.*

OTHER PUBLICATIONS & PRESENTATIONS:

• "Optical/NIR imaging of IGR J17098-3628 and IGR J16283-4838", ATEL # 478; D.Steeghs (CfA), M.A.P.Torres (CfA), P.G.Jonker (SRON/CfA), J.Miller (CfA), P.Green (CfA), C.Rakowski (CfA), 3 May 2005; 20:53 UT

• "GRB 050408: Magellan astrometry and photometry" Josh Bloom, H.- W. Chen, Paul J. Green, J. S. Bloom, & J. X. Prochaska, 2005, GCN GRB OBSERVATION REPORT, No. 3199, 09 April

• "Introduction to Peer Instruction for Astronomy", P. J. Green 2005 in *Cosmos in the Classroom* (San Francisco: Astronomical Society of the Pacific), in press

• "The Chandra Multi-wavelength Project (ChaMP):
Results and Prospects" P. J. Green et al. 2003, in *Proceedings of X-ray Surveys, in the light of the new observatories*, 2003, Astronomische Nachrichten, 324, 93

◦ "The Chandra Multiwavelength Project: A Serendipitous X-ray Survey Using Chandra Archival Data" B. J. Wilkes, P. J. Green, R. A. Cameron, D.-W. Kim, M. Birkinshaw, P. Freeman, T. Gaetz, H. Ghosh, J. Grimes, J. Grindlay, B. Jannuzi, V. Kashyap, S. Mathur, D. Morris, A. Mossman, E. Schlegel, J. D. Silverman, C. Smith, P. Smith, D. W. Worall & the ChaMP Collaboration 2001, in *New Visions of the X-ray Universe in the XMM-Newton and Chandra Era*, ESTEC, Noordwijk, The Netherlands, November 2001, ed. F. Jansen

• "Peer Instruction for Astronomy", P. J. Green 2002 (Prentice-Hall: New Jersey), submitted

• "Serendipitous AGN from the Chandra Multiwavelength Project" P. J. Green, J. D. Silverman, D.-W. Kim, R. A. Cameron, D. Morris, A. Dosaj, B. J. Wilkes, H. Tananbaum, P. Smith, A. LaCluyze, & the ChaMP Collaboration 2001, *Bull. Amer. Astron. Society*, **199**, 141.06

◦ "Emission Line Properties of AGN from a pre-COSTAR FOS HST Spectral Atlas" Kuraszkiewicz, J. K., Green, P. J., Forster, K., Aldcroft, T. L., Koratkar, A., Evans, I. N. 2001, *Bull. Amer. Astron. Society*, **199**, 141.01

◦ "An Optical Spectroscopic Survey of X-ray Selected QSOs and AGN: Chandra Multiwavelength Project (ChaMP)" J. D. Silverman, P. J. Green, B. J. Wilkes, P. Smith, A. LaCluyze, & the ChaMP Collaboration 2001, *Bull. Amer. Astron. Society*, **199**, 77.02

• “A Chandra Snapshot Survey of Broad Absorption Line Quasars”, P. J. Green, T. L. Aldcroft, S. Mathur, B. J. Wilkes & Martin Elvis 2001, Talk: *Mass Outflow in Active Galactic Nuclei*

• “Optical Classification of Chandra Serendipitous Sources by the ChaMP”, P. J. Green, R. Cameron, B. T. Jannuzi, A. LaCluyze, J. Silverman, C. Foltz, P. Smith, Belinda J. Wilkes & the ChaMP Collaboration, 2001, Poster Presentation: *Two Years of Chandra Science*

“Chandra Probes the Twin Quasars in Q2345+007: Pair or Lens?”, P. J. Green, A. Siemiginowska, C. Kochanek, M. Markevitch, J. D. Silverman, 2001, Poster Presentation: *Two Years of Chandra Science*

• “A Chandra Snapshot Survey of Broad Absorption Line Quasars” P. J. Green, T. L. Aldcroft, S. Mathur, B. J. Wilkes & M. Elvis 2001, in *Mass Outflow in Active Galactic Nuclei: New Perspectives*, eds. D. M. Crenshaw & S. B. Kraemer (San Francisco: Astronomical Society of the Pacific), 2000

• ”Understanding the Elusive Dwarf Carbon Star,” P. J. Green 2000, **Invited Talk**, IAU Symposium 177: *The Carbon Star Phenomenon*, ed. R. F. Wing (Kluwer: Dordrecht), pp 27-35.

• “Optical Followup of Serendipitous Sources in Chandra Fields”, P. J. Green et al. for the ChaMP Collaboration, 2000, *Bull. Amer. Astron. Society*, **31**, 1493.

◦ “ChaMP and the High Redshift Quasars in X-rays”, S. Mathur, H. Marshall, N. Evans, P. Green, & B. Wilkes 2000, in *The Hy-Redshift Universe: Galaxy Formation and Evolution at High Redshift*, eds. Andrew J. Bunker & W. J. M. van Breugel (San Francisco: Astronomical Society of the Pacific), 2000, vol. 193, p.612.

• “Star” P. J. Green, 2000, **World Book Encyclopedia** (World Book: Chicago), pp 840-852.

• “Cool Companions to Hot White Dwarfs”, P. J. Green & Babar Ali 1999, *Bull. Amer. Astron. Society*, **30**, 1401.

• “ConcepTests for Introductory Astronomy”, P. J. Green 1999, *Bull. Amer. Astron. Society*, **30**, 1335.

◦ ”How Accurately Do We Know the Parameters of Hot DA White Dwarfs?”, R. Napiwotzki, P. J. Green, & R. A. Saffer 1999, Proceedings of *White dwarfs*, ed. J.E. Solheim, ASP Conf. Ser. (San Francisco: Astronomical Society of the Pacific), p. 492

• “Invited Review: Emission Lines and the High Energy Continuum”, P. J. Green 1999, in *Proceedings of Quasars as Standard Candles for Cosmology*, eds. J. Baldwin & G. Ferland (San Francisco: Astronomical Society of the Pacific). v162, p265

◦ “SEDs vs. Emission-Line Correlations in Low Redshift Quasars”, J. Kuraszkiewicz, B. J. Wilkes, P. J. Green, S. Mathur, J.C. McDowell, & Bożena Czerny 1999, in *Proceedings of Quasars as Standard Candles for Cosmology*, eds. J. Baldwin & G. Ferland (San Francisco: Astronomical Society of the Pacific).

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• “White Dwarf” P. J. Green, 1998, World Book Encyclopedia (World Book: Chicago).

• “Why Do Soft X-rays Weaken with Increasing Luminosity?” P. J. Green 1997, *Bull. Amer. Astron. Society*, **191**, 1373.

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• “On the Ubiquity of Polluted Dwarfs”, P. J. Green & M. Kurtz 1997, in *Proceedings of The Tenth Cambridge Workshop On Cool Stars, Stellar Systems And The Sun*, eds. R. Donahue & J. Bookbinder (San Francisco: Astronomical Society of the Pacific).

• ”Using The Tycho Output Catalog For AXAF: Guiding And Aspect Reconstruction For Half-Arcsecond X-Ray Images,” P. J. Green, T. A. Aldcroft, M. R. Garcia, P. Slane, & J. Vrtilek in *Proceedings of the ESA Symposium ‘Hipparcos Venice ’97’*, ed. B. Battrick (ESA SP-402), p 187.

• “Soft X-ray Absorption in BALQSOs,” P. J. Green 1997, in *Mass Ejection in AGN*, eds. N. Arav, I. Shlosman, & R. Weymann, (San Francisco: Astronomical Society of the Pacific), p 167

• “X-ray Spectroscopy of QSO Absorbers,” P. J. Green & S. Mathur, in *Proceedings of the High Throughput X-ray Spectroscopy Workshop*, eds. H. Tananbaum, N. White & P. Sullivan (Cambridge, MA: SAO), 1996.

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• “Dark Matter in the Universe,” P. J. Green, *The McGraw-Hill 1997 Science Yearbook* , Parker, S. ed., (McGraw-Hill: New York).

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• “Dilemma of the Devious Dwarfs,” P. J. Green 1994, *The Griffith Observer*, 1995, Vol. 59, 2.

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