

John A. Tomsick

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Education:

Ph.D. Physics:	1999, Columbia University
M.A. Physics:	1998, Columbia University
M. Phil. Physics:	1998, Columbia University
B.S. Physics:	1993, University of California at San Diego

Experience:

July 2013 – present	Research Scientist, Senior Fellow, and Associate Director, Space Sciences Laboratory, UC Berkeley
July 2011 – June 2013	Research Scientist and Senior Fellow, SSL, UC Berkeley
July 2010 – June 2011	Associate Research Scientist and Senior Fellow, SSL, UC Berkeley
Apr 2007 – June 2010	Associate Research Scientist, SSL, UC Berkeley
Sept 2003 – Mar 2007	Assistant Research Scientist, UC San Diego, CA
July 2001 – Aug 2003	Assistant Project Scientist, UC San Diego, CA
Sept 1999 – June 2001	Postgraduate Research Physicist, UC San Diego, CA

Fellowships and Awards:

2010 – present	Senior Fellow, SSL, UC Berkeley
2014 – 2016	NASA Group Achievement Awards for work on <i>NuSTAR</i>
1999 – 2001	Postdoctoral Fellowship, CASS, UC San Diego
1994 – 1995	Faculty Fellow, Physics Department, Columbia University
1993	John Holmes Malmberg Award for Excellence in Physics, UCSD

Professional Service (current):

2017 – present	Chair of the <i>NuSTAR</i> Users Committee
2017 – present	Member of the 3G Science Team (planning for the next generation of ground-based gravitational wave interferometers)
2017 – present	Member of the <i>STROBE-X</i> Steering committee
2017 – present	Deputy PI and Project Scientist for the <i>Compton Spectrometer and Imager (COSI-X)</i> project
2016 – present	Member of the Physics of the Cosmos Program Analysis Group (PhysPAG) Executive Committee (co-leader for GRSIG and XRSIG)
2016 – present	Member of the <i>Lynx</i> Science Working Group
2015 – present	Project Scientist for the <i>Compton Spectrometer and Imager (COSI)</i> project
2015 – present	Member of the <i>Athena</i> Science Working Group
2016 – present	Member of the <i>AMEGO</i> collaboration
2014 – present	Member of Scientific Organizing Committees for meetings
2012 – present	Chair of the <i>NuSTAR</i> Galactic Binaries Working Group

Publications:

Between 1998 and 2018, John has been first author or co-author on 231 refereed publications, which have been cited over 6600 times. Over the past year, the work has included results using *COSI*, *NuSTAR*, *XMM-Newton*, *Ultracam*, *Chandra*, *Swift*, *VLT*, and *VLA* to observe accreting black holes and neutron stars, cataclysmic variables, AGN, and Sgr A*. The topics include black hole spins and warped accretion disks as well as constraints on populations of High-Mass X-ray Binaries. John also recently completed a paper on environmental testing of a Laue lens prototype. Selected recent publications follow.

- Wade, Barriere, Tomsick, Hanlon, Boggs, Lowell, von Ballmoos, & Massahi, 2018, “Construction, Characterization, and Environmental Testing of a Laue Lens Prototype using Fe and Al Crystals,” submitted to NIM A
- Tomsick, Parker, Garcia, Yamaoka, Barret, Chiu, Clavel, Fabian, Fuerst, Gandhi, Grinberg, Miller, Pottschmidt, & Walton, 2018, “Alternative Explanations for Extreme Supersolar Iron Abundances Inferred from the Energy Spectrum of Cygnus X-1,” accepted by ApJ, arXiv:1801.07267
- Gandhi, Bachetti, Dhillon, Fender, Hardy, Harrison, Littlefair, Malzac, Markoff, Marsh, Mooley, Stern, Tomsick, Walton, Casella, Vincentelli, Altamirano, Casares, Ceccobello, Charles, Ferrigno, Hynes, Knigge, Kuulkers, Pahari, Rahoui, Russell, & Shaw, 2017, “An Elevation of 0.1 Light-Seconds for the Optical Jet Base in an Accreting Galactic Black Hole System,” *Nature Astronomy*, 1, 859
- Lowell, Boggs, Chiu, Kierans, Sleator, Tomsick, Zoglauer, Chang, Tseng, Yang, Jean, von Ballmoos, Lin, & Amman, “Polarimetric Analysis of the Long Duration Gamma-Ray Burst GRB 160530A with the Balloon Borne Compton Spectrometer and Imager,” *ApJ*, 848, 120
- Girou, Wade, Barriere, Collon, Guenther, Hanlon, Tomsick, Uliyanov, Vicanti, & Zoglaer, 2017, “Development of a Second Generation SiLC-based Laue Lens,” *SPIE*, 10399, 1
- Tomsick, Nowak, Parker, Miller, Fabian, Harrison, Bachetti, et al., 2014, “The Reflection Component from Cygnus X-1 in the Soft State Measured by *NuSTAR* and *Suzaku*,” *ApJ*, 780, 78
- Bachetti, Harrison, Walton, Grefenstette, Chakrabarty, Fuerst, Barret, Beloborodov, Boggs, Christensen, Craig, Fabian, Hailey, Hornschemeier, Kaspi, Kulkarni, Maccarone, Miller, Rana, Stern, Tendulkar, Tomsick, Webb, & Zhang, 2014, “An Ultraluminous X-ray Source Powered by an Accreting Neutron Star,” *Nature*, 514, 202
- Harrison, Craig, Christensen, Hailey, Zhang, Boggs, Stern, Cook, Forster, Giommi, Grefenstette, Kim, Kitaguchi, Koglin, Madsen, Mao, Miyasaka, Mori, Perri, Pivovarov, Puccetti, Rana, Westergaard, Willis, Zoglauer, An, Bachetti, Barriere, Bellm, Bhalerao, Brejnholt, Fuerst, Liebe, Markwardt, Nynka, Vogel, Walton, Wik, Alexander, Cominsky, Hornschemeier, Hornstrup, Kaspi, Madejski, Matt, Molendi, Smith, Tomsick, Ajello, Ballantyne, Balokovic, Barret, Bauer, Blandford, Brandt, Brenneman, Chiang, Chakrabarty, Chenevez, Comastri, Dufour, Elvis, Fabian, Farrah, Fryer, Gotthelf, Grindlay, Helfand, Krivonos, Meier, Miller, Natalucci, Ogle, Ofek, Ptak, Reynolds, Rigby, Tagliaferri, Thorsett, Treister, & Urry, 2013, “The Nuclear Spectroscopic Telescope Array (*NuSTAR*) High-energy X-ray Mission,” *ApJ*, 770, 103
- Tomsick, Yamaoka, Corbel, Kaaret, Kalemci, & Migliari, 2009, “Truncation of the Inner Accretion Disk Around a Black Hole at Low Luminosity,” *ApJ*, 707, L87