
CONTACT INFORMATION	Harvard University Department of Astronomy 60 Garden Street MS-6 Cambridge, MA 02138	Phone: (617) 496-7521 Fax: (617) 495-7356 E-mail: jclee@cfa.harvard.edu http://www.cfa.harvard.edu/~jclee/
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EDUCATION	<ul style="list-style-type: none"> ● Ph.D. Astrophysics, University of Cambridge, UK 1996–2000 <ul style="list-style-type: none"> * Thesis title: <i>X-ray Reflection and Variability in Active Galactic Nuclei</i> * Adviser: Professor Andrew C. Fabian, FRS ● B.S Astrophysics with Honors, UCLA 1994 ● B.S Mathematics, UCLA 1994
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RESEARCH INTERESTS AS RELEVANT TO PUBLISHED WORK	<ul style="list-style-type: none"> ● Experimental Condensed Matter Physics as applied to X-ray studies of interstellar dust ● X-ray studies of efficient accretion systems: neutron stars, microquasars, AGN, and QSOs ● Intervening material: the interstellar and intergalactic medium ● Dark Energy
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AWARDS & RECOGNITION	<ul style="list-style-type: none"> ● Gruber Cosmology Prize (co-recipient) 2007 ● NASA (Chandra) Postdoctoral Prize Fellowship 2002–2005 ● Sigma Xi Honor Society (MIT Chapter) ● Isaac Newton Scholarship (Cambridge University) 1997–1999 ● Overseas Research Scholarship (ORS) 1996–1999 ● Cambridge Trust Bursary 1997–1999
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EMPLOYMENT	<ul style="list-style-type: none"> ● Associate Professor, Harvard University 2009– ● Assistant Professor, Harvard University 2005–2009 ● Chandra Postdoctoral Prize Fellow (Host Institutions: MIT & Harvard) 2002–2005 ● Post-doctoral research associate, MIT with Prof. Claude Canizares 2000–2002 ● Staff Research Associate, Lawrence Berkeley National Laboratory 1994–1996 <ul style="list-style-type: none"> * Institute for Nuclear & Particle Astrophysics * Supernova Cosmology Project, with Dr. Saul Perlmutter * Hands-on-Universe, with Dr. Carl Pennypacker ● Research Assistant, UCLA Department of Physics & Astronomy 1992–1994
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PROFESSIONAL ACTIVITIES	<ul style="list-style-type: none"> ● AAS HEAD Executive Committee 2009 – <ul style="list-style-type: none"> - American Astronomical Society High Energy Astrophysics Division ● NASA Advisory Committees <ul style="list-style-type: none"> * Chandra User’s Committee 2003–2006 * HEASARC User’s Committee 2004–2007 * Constellation-X, International X-ray Observatory ● Peer Review Panel for Einstein Prize fellows 2009
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- Peer Review Panel for NASA satellite proposals 2001 –
- Peer Review for professional journals 2000 –
- Science Organizing Committees
- New England Board of Higher Education Minority program
- * served as adviser to high school students and undergraduates

COLLOQUIA

University of Wisconsin	2009 Nov
Harvard-Smithsonian CfA	2007 Nov
NRAO/U. Virginia	2006 Nov
U. Hawaii, Institute for Astronomy	2006 Apr
University of Rochester	2006 Jan
University of California, Berkeley	2005 Aug
Institut d’Astrophysique de Paris	2005 Apr
University of Toronto	2004 Oct
University of California, Irvine	2004 Mar
Harvard University	2004 Feb
Massachusetts Institute of Technology	2004 Feb
Yale University	2004 Feb
NASA Goddard Space Flight	2003 Apr
University of California, LA	2003 Feb
University of Colorado	2003 Feb
Massachusetts Institute of Technology	2003 Jan
Columbia University	2003 Jan
University of Wisconsin	2002 Oct

SELECT
INVITED
REVIEWS
& TALKS

- Invited Reviews
- * Conference, SRON, Utrecht: *2010 Mar
A review: X-ray Spectroscopy of Dust
- * Chandra’s First Decade of Discovery Symposium, Boston MA †2009 Sep
A review: High Spectral Resolution Probes of Outflows
- * IXO Science Definition Team Meeting 2009 Jan
The Interstellar Medium
- * XXVth IAU GENERAL ASSEMBLY 2003 July
Joint Discussion on Atomic Data for X-ray Astronomy
- * X-ray spectroscopy of AGN with Chandra and XMM-Newton (MPE) 2001 Dec
- * New England Regional Quasar Meeting
- Cambridge University, U.K. 2008, 2005
- University of Amsterdam 2005 April
- Observatoire de Paris, Meudon 2005 March
- Chandra Fellow’s Symposia 2002, 03, 04

*Future Conference: <http://www.sron.nl/xray2010>

†Future Conference: http://cxc.harvard.edu/symposium_2009/

HARVARD
SERVICE

- Graduate Admissions Committee 2006, 07, 08
 - Harvard-Smithsonian OIR Time Allocation Committee 2008
 - Examination Committees
 - * Ph.D.Thesis Defense (Paul Kondratko) 2007
 - * Year 1 Research Exam (Joseph Neilsen) 2007
 - Undergraduate Concentration Adviser 2005 –
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TEACHING

- Harvard Lecture Courses 2005–
 - * Astronomy 7, undergraduate Spring '06,07,08,09
 - Black Holes and the Violent Universe*
 - * Astronomy 45, undergraduate Fall 2005
 - Introduction to Extragalactic Astrophysics and Cosmology*
 - * Astronomy 301hf, graduate seminar 2006–2009
 - Graduate Research Forum*
 - Graduate Research 2006–
 - * 1 Harvard student (Joseph Neilsen); 2 co-advise(d)
 - Undergraduate Research
 - * 7 total: 4 current, 3 in graduate school
 - Postdoctoral Training 2005–
 - * 2 total since 2005 (Jingen Xiang, Daniel Evans)
 - * 2 new due to arrive Fall 2009 / Spring 2010
 - * (Susmita Chakravorty & Farid Rahoui)
 - Practicals/Tutorials (Cambridge University, undergraduate) 1998-1999
 - * *Mathematics for Science Majors (Natural Science Tripos)*
 - Miscellaneous
 - * First Summer School on Multiwavelength Astronomy, Paris 2009 July
 - * MIT IAP (Independent Activities Period) 2003 January
 - * Outreach: MIT Summer Lecture Series 2003
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EXTERNAL
NASA FUNDING
BROUGHT TO
HARVARD
2005—

• <i>A Chandra HETGS study of 4U 1323-619: Binary Wind Properties, X-ray Burst, Distance and Studies of the ISM</i>	TBD
• <i>A comprehensive archival study of GRS 1915+105 HETGS spectra: variability and line-of-sight dust properties</i>	\$115,000
• <i>Measuring the GRS 1915+105 Black Hole Spin and Broadband Continuum Properties</i>	TBD
• <i>Circinus X-1 near Periastron: Probing Binary Physics and ISM Grains along the line-of-sight</i>	\$34,318
• <i>The Nature of Energy Transport and Particle Acceleration in the Transitional FRI/FRII Radio Galaxy 3C 288</i>	\$42,911
• <i>Constraining the Reflection Properties of the Narrow-Line Radio Galaxy 3C 33</i>	\$38,161
• <i>The dirt on dust composition, size, and distribution in the Galaxy</i>	\$140,009
• <i>A Chandra HETGS Study of LMC X-4 : Binary Disk and Wind Properties and Studies of Grain Distribution at Small Angles</i>	\$60,417
• <i>The X-ray Nuclei FRII Radio Galaxies: Unification and Accretion Modes</i>	\$30,150
• <i>The Circumnuclear X-Ray Environments of Highly Disturbed Seyfert Galaxies</i>	\$32,953
• <i>The Radio-Loud, Radio-Quiet Dichotomy in AGN: Clues from the Compton Reflection Hump</i>	\$19,069
• <i>A Direct Test of the Fanaroff-Riley Dichotomy in the Nuclei of Radio Galaxies</i>	\$30,542
• <i>Probing Absorber Kinematics with simultaneous FUSE and Chandra HETGS observations of Markarian 290</i>	\$31,844
• <i>A Chandra HETGS & HST view of the warm and lukewarm absorbers in IRAS 13349+2438</i>	\$148,544
• <i>IRAS 13349+2438: A Unique Laboratory to Probe the Innermost Regions of the Accretion Flow</i>	\$12,492
• <i>The Near Eddington Neutron Star 4U 1624-490</i>	\$41,704
• <i>The broad Fe line and complex X-ray spectrum of the Seyfert 1 galaxy Mrk 290</i>	\$27,924
• <i>Probing black hole environments with high resolution X-ray spectroscopy</i>	\$100,337
• <i>An ACIS-HETGS, RXTE, and Radio VLA-VLBA TOO micro-quasar XTE J1748-288 (Funding not received due to no source trigger.)</i>	\$71,059
• <i>Determining the grain structure and composition of the ISM while studying the X-ray properties of the intermediate polar XY-Ari (Funding not received due to in-flight failure of Suzaku calorimeter for which this work was intended)</i>	\$78,000

ALL SUCCESSFUL
PROPOSALS

- X-ray: *Chandra, XMM-Newton, Suzaku (AstroE1 & E2), RXTE, BeppoSAX*
- * *Chandra AO1-AO9 (2000-2009):*
 - *15 proposals: 1588 ks total granted as PI; some non-triggered ToO*
 - *2 archive (PI)*
 - *8 proposals: 486 ks total (Co-I)*
- * *XMM-Newton: 3 proposals: 240 ks (Co-I)*
- * *Suzaku: 400 ks Priority A (PI); 220 ks Priority A,B (Co-I); 85 ks Priority C (Co-I)*
- * *RXTE AO3-AO7 (1998-2001): 460 ks (PI); 880 ks (Co-I)*
- * *BeppoSAX AO3: 1 proposal: 150 ks (PI)*

- UV: *HST, FUSE*
- * *HST: 4 orbits (PI), 6 orbits (Co-I)*
- * *FUSE: 50 ks(PI), 70 ks (Co-I)*

- Optical: *Magellan, WHT*
- * *Hobby-Eberly: 1 hr (Co-I)*
- * *Magellan IMAX IFU: 5 nights (PI)*
- * *WHT: 1 night (PI)*

- IR: *Spitzer*
- * *IRS 2.1hrs (Co-I); IRAC+MIPS 1 hr (Co-I)*

- Radio: *VLA, VLBA*
- * *VLBA: 18 hrs (PI)*
- * *VLA: 6 hrs (PI)*

- Laboratory Condensed Matter Experiments: *ALS, BNL*
- * *Lawrence Berkeley National Laboratory (LBNL) Advanced Light Source (ALS):*
 - *27 8-hour shifts on † beamline 6.3.1 (Fe L region) (PI)*
- * *Brookhaven National Laboratory (BNL) National Synchrotron Light Source (NSLS)*
 - *Beamline U7a (Fe LII, III): 4 days*
 - *Beamline X15b (Mg K): 3 days*
 - *Beamline X15b (Si K): 4 days*
 - *Beamline X19a (S K): 2 days*

†Measurements of the different photoelectric edge regions (FeK, FeL, SiK, MgK, ...) require different beamlines with different experimental setups.