



**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE

# Andrew J. Fox

## Curriculum Vitae



Space Telescope Science Institute (STScI)  
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<b>EMPLOYMENT</b>	<p><b>ESA/AURA Astronomer</b>, STScI  <ul style="list-style-type: none"> <li>Instrument &amp; Science Support Branch Deputy</li> </ul> <b>ESO (European Southern Observatory) Fellow</b>  <ul style="list-style-type: none"> <li>4th year at Institute of Astronomy, Cambridge, UK</li> </ul> <b>Marie Curie Fellow</b>, Intra-European Fellowship  <ul style="list-style-type: none"> <li>Host: Institut d'Astrophysique de Paris (IAP)</li> </ul> </p>	<p>2011-present Baltimore, MD 2007-2011 Santiago, Chile 2006-2007 Paris, France</p>
<b>EDUCATION</b>	<p><b>Ph.D. in Astronomy, U. Wisconsin-Madison, 2005</b>  <ul style="list-style-type: none"> <li>"Origins of Highly Ionized Gas in High-Velocity Clouds"</li> <li>Advisor: Prof. Blair D. Savage</li> </ul> <b>Master of Science (MS) in Astronomy, 2002</b>  <b>Master in Science (MSci) in Astrophysics, 2000</b>  <ul style="list-style-type: none"> <li>University College London (UCL)</li> <li>1<sup>st</sup> class honours, Diploma in Communication Skills</li> </ul> </p>	<p>Madison, Wisc. 2001–2005  Madison, Wisc. London, UK 1996–2000</p>
<b>COMMUNITY SERVICE</b>	<p>Referee: ApJ, ApJL, ApJS, AJ, MNRAS, PASP, A&amp;A            Member, Hubble Ultraviolet Legacy Working Group            External Ph.D Examiner, Swinburne University, Australia            Reviewer, NASA Hubble Fellow Selection Committee            Reviewer, NSF Astronomy &amp; Astrophysics Grants (AAG)            Reviewer, NASA Postdoctoral Program (NPP) Fellowships            Reviewer, NASA Astrophysics Theory (ATP) Program            Reviewer, NASA Astrophysics Data Analysis Program            Reviewer, Chambliss student poster awards, AAS meetings            Reviewer, German Science Foundation            Reviewer, Swedish National Space Board            Panelist, PhD Candidate Final-Year Interviews, Cambridge            Coordinator, Extragalactic Research Group, ESO–Chile            Member, AAS Henri Chrétien Award Prize Committee            Member, Graduate Admissions Committee, UW–Madison            Graduate Student Czar (elected), UW–Madison</p>	<p>2004–present 2018– 2019 2018 2015–present 2014–present 2013–present 2013–present 2014–2015 2016 2012 2011 2009–2010 2007–2009 2004 2002–2003</p>

<b>SUCCESSFUL PROPOSALS AS PI</b>	NASA ADAP proposal 18-2ADAP18-0018, total grant \$531 507	2019
	<i>3D Structure of the ISM around the Galactic Center</i>	
	NASA/HST Cycle 27, 33 orbits COS, proposal GO 15887	2019
	<i>The Nature and Origin of Compact High-Velocity Clouds</i>	
	Gemini/NIFS Semester 2019A, proposal GN-2019A-Q-323	2019
	<i>Molecular Gas in the Galactic Center Outflow</i>	
	NRAO/GBT Semester 18A, 19.0 hours, proposal GBT18A-221	2018
	<i>Properties of the Galactic Nuclear Wind at Low Latitudes</i>	
	NASA ADAP proposal 17-ADAP17-0045, total grant \$334 464	2019
	<i>Surveying the H I Content of the Galactic Halo via the Lyman Series</i>	
	NRAO/GBT Semester 17B, 2.75 hours, DD proposal GBT17B-424	2017
	<i>HI Spectra to Probe the Leading Arm of the Magellanic Stream</i>	
	NASA/HST Cycle 25, 22 orbits COS, proposal GO 15339, \$170 915	2017
	<i>Properties of the Galactic Nuclear Wind at Low Latitudes</i>	
	NASA/HST Cycle 25, archival proposal AR 15020, \$288 436	2017
	<i>The Mass Outflow Rate of the Milky Way</i>	
	NASA/HST Cycle 24, 6 orbits COS, proposal GO 14687, \$69 050	2016
	<i>The Origin of the Leading Arm of the Magellanic Stream</i>	
	NRAO/GBT Semester 14B, 7.0 hours, Band A, proposal GBT/14B-299	2014
	<i>The Closest Galactic Wind: Properties of the MW Nuclear Outflow</i>	
	NASA/HST Cycle 22, 9 orbits COS, proposal GO 13840, \$66 394	2014
	<i>The Smith Cloud: Galactic or Extragalactic</i>	
	NRAO/GBT, 0.75 hours DD time, Band A, proposal GBT/14A-557	2014
	<i>The Crater Satellite: Dwarf Galaxy or Globular Cluster?</i>	
NASA/HST Cycle 21, 49 orbits COS, proposal GO 13448, \$181 518	2013	
<i>The Closest Galactic Wind: UV Properties of the MW Nuclear Outflow</i>		
NASA/HST Cycle 19, 20 orbits COS, proposal GO 12604, \$79 282	2011	
<i>Ionization in the Magellanic Stream: A Study of Galactic Accretion</i>		
ESO Period 88, VLT/XSHOOTER, 10.0 hr, proposal 088.A-0852(A)	2011	
<i>Probing the Transverse Length Scale of IGM Metals using QSO Pairs</i>		
Nuffield Foundation Undergraduate Research Bursary 39696, 1440 GBP	2011	
<i>Chemical Abundances and the Origin of the Magellanic Stream</i>		
ESO Period 85, VLT/UVES spectrograph, 14.7 hr, proposal 085.C-0172	2009	
<i>Ionization in the Magellanic Stream; A Study of Galactic Accretion</i>		
ESO Period 83, VLT/UVES spectrograph, 6 hr, proposal 383.A-0376	2008	
<i>Highly ionized plasma in damped Lyman-<math>\alpha</math> systems: warm or hot?</i>		
NASA/FUSE Cycle 8, 100 ks awarded, proposal 06-FUSE8-0005	2007	
<i>Far-UV spectra of the brightest X-ray sources</i>		
ESO Period 78, VLT/UVES spectrograph, 4 hr, proposal 078.A-0164	2006	
<i>Highly ionized gas in damped Lyman-alpha systems</i>		
WIYN 3.5m Semester 2005a, HYDRA/MOS spectroscopy, 3 nights	2005	
<i>A search for galaxies associated with intergalactic O VI absorbers</i>		

<b>SUCCESSFUL PROPOSALS AS CO-I</b>	HST Cycle 27 AR Proposal 15795, PI French	2019
	<i>Self-Consistent Metallicities in the Galactic Halo</i>	
	HST Cycle 27 GO Proposal 15939, PI Peroux	2019
	<i>The stellar populations of gas-rich galaxies from MUSE+ALMA</i>	
	GBT Semester 19B Proposal GBT19B-190, PI Butterfield	2019
	<i>A Search for Molecules Entrained in the Fermi Bubble Wind</i>	
	GBT Semester 18B Proposal GBT18B-376, PI Zheng	2018
	<i>Observations of HI toward the halo of a dwarf galaxy</i>	
	GBT Semester 18B Proposal GBT18B-307, PI Moss	2018
	<i>Uncovering the hidden iceberg structure of the Milky Way halo</i>	
	HST Cycle 26 AR Proposal 15634, PI Lehner	2018
	<i>A Comprehensive Study of Multiphase Gas in Absorbing Galaxy Halos</i>	
	HST Cycle 26 GO Proposal 15627, PI Adamo	2018
	<i>CLUES to galaxy evolution: young star clusters as engines of feedback</i>	
	VLA Semester 18A Proposal VLA18A-006, PI S. Borthakur	2018
	<i>Completing the VLA-DISK Program: Probing Condensation</i>	
	HST Cycle 25 GO Proposal 15313, PI Lehner	2017
	<i>The AGN Impact on the Circumgalactic Medium of Cen A</i>	
	HST Cycle 25 GO Proposal 15193, PI Aloisi	2017
	<i>Ionization and Depletion in the ISM of Nearby Star-Forming Galaxies</i>	
	HST Cycle 25 GO Proposal 15335, PI de Cia	2017
	<i>What is the metallicity of the cool ISM in our own Galaxy?</i>	
	HST Cycle 25, GO Proposal 15161, PI Barger	2017
	<i>The Fate of Infalling Gas during its Final Approach onto the Disk</i>	
	VLA Semester 17A Proposal VLA17A-090, PI S. Borthakur	2017
	<i>How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface</i>	
	HST Cycle 24 GO Proposal 14602, PI Howk	2016
	<i>The Perseus Project: Probing Metals in the Perseus Arm</i>	
	HST Cycle 24 GO Proposal 14681, PI Aloisi	2016
	<i>Tracing Galactic Outflows to the Source: Resolved Feedback in M83</i>	
HST Cycle 24 AR Proposal 14560, PI Earl	2016	
<i>Diagnosing the Multiphase Circumgalactic Medium</i>		
HST Cycle 23 GO Proposal 14240, PI Wakker	2015	
<i>Mapping the circumgalactic medium of two large spiral galaxies</i>		
HST Cycle 23 GO Proposal 14265, PI Kim	2015	
<i>Crossing the redshift desert: ionizing background radiation at <math>z=1</math></i>		
GBT Semester 17B Proposal GBT17B-015, PI Bordoloi	2017	
<i>GBT high-sensitivity mapping of an HI cloud in the Fermi Bubble wind</i>		
GBT Semester 16B Proposal GBT16B-422, PI Lockman	2016	
<i>GBT mapping of a neutral cloud trapped in the Fermi Bubble wind</i>		
GBT Semester 15B Proposal GBT15B-359, PI Lockman	2015	
<i>GBT 21cm HI Observations Through the Milky Way's Nuclear Wind</i>		
GBT Semester 14B Proposal GBT14B-458, PI Lehner	2014	
<i>Project AMIGA: Mapping the Circumgalactic Medium of Andromeda</i>		

<b>SUCCESSFUL PROPOSALS AS CO-I (CONT.)</b>	HST Cycle 23 GO Proposal 14269, PI Lehner	2015
	<i>Just the BASICS: Linking Gas Flows in the CGM to Galaxies</i>	
	HST Cycle 23 GO Proposal 14268, PI Lehner	2015
	<i>Project AMIGA: Mapping the Circumgalactic Medium of Andromeda</i>	
	HST Cycle 23 GO Proposal 14071, PI Borthakur	2015
	<i>How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface</i>	
	HST Cycle 22 AR Proposal 13919, PI Peebles	2014
	<i>MAST Interface to Synthetic Telescopes: Observing IGM Simulations</i>	
	HST Cycle 21 GO Proposal 13444, 21 orbits COS, PI Wakker	2013
	<i>Constraining the size of intergalactic clouds with QSO pairs</i>	
	ESO VLT Period 91, UVES, 9 hr, proposal 091.A-0442, PI Ledoux	2012
	<i>Molecules, dust and metals in the ISM of GRB host galaxies</i>	
	ESO VLT Period 90, UVES, 9 hr, proposal 090.A-0034, PI Ledoux	2012
	<i>Molecules, dust and metals in the ISM of GRB host galaxies</i>	
	HST Cycle 20 GO Proposal 13004, 17 orbits, \$148 300, PI Meixner	2012
	<i>The Life Cycle of Dust in the Magellanic Clouds</i>	
	HST Cycle 20 GO Proposal 13033, 14 orbits, \$77 000, PI Tumlinson	2012
	<i>COS-Halos: FUV Measurements of Baryons and Metals in the CGM</i>	
	HST Cycle 20 AR Proposal 12842, \$104 667, PI Kim	2012
	<i>The Evolution of Intergalactic Neutral Hydrogen over Cosmic Time</i>	
	SAAO/SALT Period 2011B, RSA_UW_OTH-001, 9 hr, PI Crawford	2011
	<i>Monitoring Activity in MS0451-03</i>	
	ESO VLT Period 89, UVES, 3 hr, proposal 089.A-0438, PI Ledoux	2011
	<i>Molecules, dust and metals in the ISM of GRB host galaxies</i>	
HST Cycle 18 GO Proposal 12275, 49 orbits COS, PI Wakker	2010	
<i>Mass Flow Rates in High-Velocity Clouds</i>		
NASA ADAP 2009, proposal 09-ADP09-0141, \$345 800, PI Lehner,	2009	
<i>Comprehensive Study of High-Ion Plasma in Galaxies at <math>1.5 &lt; z &lt; 4</math></i>		
ESO DGDF (Dir. General Discretionary Fund), 5800 EUR, PI Ledoux	2009	
<i>"Mining the rich data from the GRB afterglow UVES survey"</i>		
ESO VLT Period 83, UVES, 9 hr, proposal 083.A-0911, PI Vreeswijk	2008	
<i>GRB afterglow spectroscopy with UVES: ISM properties of the hosts</i>		
FUSE Cycle 8, 200 ks awarded, Program ID H078, PI Savage	2007	
<i>Physical conditions and baryonic content of the highly-ionized IGM</i>		
ESO VLT Period 81, UVES/VIMOS, 10 hr, 381.A-0634, PI Petitjean	2007	
<i>Spatial distribution of metals in the D4 CFHTLS deep-field</i>		
ESO VLT Period 79, UVES/FORS1, 3 nts, 079.A-0251, PI Petitjean	2006	
<i>Spatial distribution of metals in the D4 CFHTLS deep-field</i>		
ESO NTT Period 78, EMMI/SOFI, 3 nts, 078.A-0131, PI Guimarães	2006	
<i>Unraveling the mystery of the large concentrations of gas at <math>z \sim 2</math></i>		
HST Cycle 15 Archival Proposal AR 10984, \$84 000, PI Wakker	2006	
<i>Characterizing Lyman Spitzer's Galactic Corona</i>		
HST Cycle 13 GO Proposal 10266, STIS, 19 orbits, PI Savage	2004	
<i>Origins of the highly ionized gas toward X-ray bright BLLac Mrk421</i>		

<b>TALKS</b>	<b>Invited speaker</b> , Magellanic Clouds Workshop, ESO, Munich	Sep 2019
	Contributed talk, Galaxy Feedback Conference, Spetses, Greece	Jun 2019
	<b>Invited colloquium</b> , Towson University, Baltimore	Mar 2019
	Contributed talk, 233rd AAS Meeting, Seattle, WA	Jan 2019
	<b>Invited colloquium</b> , University of Colorado-Boulder	Oct 2018
	<b>Invited speaker</b> , Circumgalactic Medium Workshop, Evanston IL	Jul 2018
	<b>Invited speaker</b> , Bubbles Big and Small, Bangalore, India	Jun 2018
	<b>Invited colloquium</b> , Texas Christian University	Mar 2018
	<b>Invited colloquium</b> , Univeristy of Maryland College Park	Mar 2018
	Contributed talk, 231st AAS Meeting, National Harbor, MD	Jan 2018
	<b>Invited speaker</b> , The role of Gas in Galaxy Dynamics, Malta	Oct 2017
	Contributed talk, The Galaxy Ecosystem, Garching, Germany	Jul 2017
	<b>Invited speaker</b> , Circumgalactic Matters conference, Durham	Jun 2017
	<b>Invited speaker</b> , Probing Baryons in the Universe, Sèvres, France	Nov 2016
	<b>Invited speaker</b> , Molecular Outflows Conference, Sesto, Italy	Feb 2016
	Contributed talk, 227th AAS Meeting, Kissimmee, FL	Jan 2016
	<b>Invited speaker</b> , Gas Accretion Workshop, NRAO, VA	Oct 2015
	Contributed talk, IGM@50, Spineto, Italy	Jun 2015
	Contributed talk, 225th AAS Meeting, Seattle	Jan 2015
	<b>Invited colloquium</b> , NRAO Green Bank, WV	Oct 2014
	Contributed talk, Galaxies in Absorption workshop, Paris	Sep 2014
	Astronomy Seminar, Institute of Astronomy, Cambridge	Sep 2014
	Contributed talk, Circumgalactic Medium Workshop, Notre Dame	Feb 2014
	<b>Invited colloquium</b> , West Virginia University, Morgantown	Nov 2013
	Astrophysics seminar, University of Maryland, College Park	Sep 2013
	<b>Invited speaker</b> , CGM-Galaxy Interface workshop, Leiden	Jun 2013
	Hot Sci Seminar, STScI, Baltimore	Jun 2013
	Contributed talk, The Galactic Gas Supply, Green Bank WV	May 2013
	<b>Invited speaker</b> , KIPAC Stanford Workshop, Fermi Bubbles	Apr 2013
	Astrophysics seminar, Columbia University, New York City	Mar 2013
	<b>Invited colloquium</b> , Penn State University	Jan 2013
	<b>Invited colloquium</b> , University of Wisconsin-Madison	Oct 2012
	<b>Discussion Leader</b> , The Dynamic Nature of Halo Baryons, Leiden	Aug 2012
	Contributed talk, Future of UV Astronomy, Kauai, HI	Jun 2012
	Contributed talk, The Baryon Cycle, Irvine, CA	Jun 2012
	<b>Invited talk</b> , Galaxies in Absorption Workshop, Boulder, CO	Sep 2011
	<b>Invited talk</b> , A Quarter Century of DLAs, Ringberg, Germany	Jul 2011
	Contributed talk, The Cosmic Odyssey of Baryons, Marseille	Jun 2011
	Astronomy Seminar, Univ. of Leicester, UK	Jun 2011
	Astronomy Seminar, Univ. Central Lancashire, Preston, UK	Mar 2011
	Astronomy Seminar, STScI, Baltimore	Mar 2011
	Astronomy Seminar, University of Durham, UK	Feb 2011

<b>TALKS</b>	Astronomy Seminar, University College London, UK	Jan 2011
<b>(CONT.)</b>	Astronomy Seminar, IoA, Cambridge	Jan 2011
	Thirty-Minute Talk (TMT), ESO-Chile, Santiago	Aug 2010
	Seminar, University of North Carolina-Chapel Hill	Aug 2010
	Contributed talk, Diffuse Gas around the Milky Way, Sydney	Dec 2009
	Contributed talk, Missing Baryons Conference, Sydney	Nov 2009
	Speaker, ISM Lunch, UW-Madison, Wisconsin	Jul 2009
	Contributed talk, ESO Fellow Symposium, Garching, Germany	Jun 2009
	<b>Invited review</b> , IGM Chemical Enrichment, Leiden, Holland	May 2009
	Contributed talk, Reionization at Ringberg, Ringberg, Germany	Mar 2009
	Colloquium, Universidad de Chile, Santiago, Chile	Mar 2009
	Contributed talk, Inflow vs Outflow, Espinho, Portugal	Aug 2008
	<b>Invited talk</b> , ISM/IGM Interactions, COSPAR, Montreal	Jul 2008
	Contributed talk, ESO Fellows Symposium, Santiago, Chile	Nov 2007
	Seminar, Institute of Astronomy, Cambridge, England	Aug 2007
	Seminar, Laboratoire d'Astrophysique de Marseille, France	Jul 2007
	Contributed talk, HI Survival over Cosmic Time, Spineto, Italy	Jun 2007
	Contributed talk, UV Space Astronomy, El Escorial, Spain	May 2007
	High Energy Journal Club, Institut d'Astrophysique de Paris	May 2007
	Astronomy Seminar, University of Wisconsin-Madison	May 2007
	Astronomy Seminar, University of Colorado at Boulder	May 2007
	Astronomy Colloquium, University of California-San Diego	May 2007
	Computational Physics Seminar, University of Georgia	May 2007
	Astronomy Seminar, University of South Carolina	May 2007
	Colloquium, SAAO, Cape Town, South Africa	Feb 2007
	Seminar, Institut d'Astrophysique de Paris, France	Nov 2006
	<b>Invited talk</b> , Neutral Gas in Galaxies, Groningen, Holland	Oct 2006
	<b>Invited talk</b> , Warm/Hot Gas, AAS Meeting, Calgary	Jun 2006
	Contributed talk, Precision Spectroscopy, Aveiro, Portugal	Sep 2006
	Galaxies Journal Club, Institut d'Astrophysique de Paris	Apr 2006
	Thesis defense, University of Wisconsin-Madison	Oct 2005
	Contributed talk, The Galaxy/IGM Ecosystem, STScI, Baltimore	Mar 2005
	Astronomy Seminar, University of California-San Diego	Nov 2004
	Contributed talk, Five Years of <i>FUSE</i> , Victoria, BC	Aug 2004
	Guest Lecture, Furman University, Greenville, SC	Jan 2003

<b>FUNCTIONAL LEADERSHIP &amp; SERVICE</b>	Branch Deputy, Instrument & Science Support Branch	2019–
	Chair, HST Telescope Time Review Board (TTRB)	2018–
	Coordinator, HST Director’s Discretionary Proposal Review	2014–2018
	COS User Support Block Lead	2015–2019
	Co-cordinator, G160M/1533 Central Wavelength Implementation	2017–2018
	Member, Postdoctoral Fellow Hiring Coordination Committee	2017–
	Member, ESA/AURA Science Recruitment Committee (SRC)	2018–2019
	Member, Science Evaluation Committee (SEC)	2018
	COS Calibration Block Deputy	2015–2016
	Elected Member, STScI Executive Committee (EC)	2014–2016
	Editor, COS Instrument Handbook (v9.0)	2017
	Editor, COS Data Handbook (v3.0)	2015
	Chair, Technical Staff Research Committee (TSRC)	2014–2016
	Panel Coordinator, HST Time Allocation Committee (TAC)	2012–2014
	Editor, HST Call for Proposals, Cycles 20-22	2012–2014
	Member, STScI Spectroscopic Legacy Working Group	2013–2014
	Member, STScI Giacconi Fellowship Selection Committee	2012–2013
	Member, STScI Summer Student Selection Committee	2012–2014
	Member, ESO Chile Fellowship Selection Committee	2009–2010
	Reviewer, VLT technical feasibility (UVES/FORS/X-Shooter)	2008–2010
Instrument Fellow, VLT/UVES spectrograph	2008–2010	
Member, General Operations group, Paranal Observatory	2008–2010	
Coordinator, Pine Bluff Observatory (0.9m), UW-Madison	2004–2005	
<b>MENTORING</b>	Supervisor, postdoctoral fellow David French, STScI	2018–
	Supervisor, postdoctoral fellow Trisha Ashley, STScI	2018–
	Supervisor, research analyst Elaine Frazer, STScI	2018–
	Supervisor, research analyst Camellia Magness, STScI	2018–
	Mentor, postdoctoral fellow Laura Prichard, STScI	2018–
	Mentor, research & instrument scientist Joe Filippazzo, STScI	2018–
	Mentor, postdoctoral fellow Giovanni Bruno, STScI	2017–2018
	Supervisor, summer student Tanveer Karim, Maria Mitchell Obs.	2016
	Supervisor, research analyst Svea Hernandez, STScI	2014
	Supervisor, summer student Nimisha Kumari, STScI	2013
	Supervisor, summer student Corbin Taylor, STScI	2012
	Supervisor, summer student Stephen Lucas, Cambridge	2011
Co-supervisor, visiting Ph.D. student Annalisa de Cia, ESO	2009	

<b>MEETING ORGAN- -IZATION</b>	Organizer, & Chair, AAS Special Session on Fermi Bubbles, Madison	Jun 2020
	SOC Member, <i>Diffuse Matter in Space</i> Workshop, Madison WI	May 2020
	SOC Member, <i>High Velocity Clouds</i> Workshop, Athens GA	May 2020
	Session Chair, <i>233rd AAS Meeting</i> , Seattle	Jan 2019
	Session Chair, <i>Bubble Big and Small</i> conference, Bangalore	Jun 2018
	Session Chair, <i>231st AAS Meeting</i> , National Harbor, MD	Jan 2018
	SOC Co-Chair, <i>Lifecycle of Metals in the Universe</i> , STScI	Apr 2017
	Session Chair, <i>Probing Baryons in the Universe</i> , Sèvres, France	Nov 2016
	Session Chair, <i>227th AAS Meeting</i> , Kissimmee, FL	Jan 2016
	SOC Chair, <i>Feedback in the Magellanic Clouds</i> , STScI	Oct 2015
	Session Chair, <i>225th AAS Meeting</i> , Seattle	Jan 2015
	Session Chair, <i>Galaxies in Absorption</i> workshop, IAP Paris	Sep 2014
	Session Chair, Hubble Fellow Symposium, STScI	Mar 2014
	Session Chair, <i>Circumgalactic Medium</i> workshop, Notre Dame	Feb 2014
	Organizer & Chair, AAS Special Session on CGM, National Harbor	Jan 2014
	Panel Member, <i>Galactic Gas Supply</i> , Green Bank WV	May 2013
SOC Co-Chair, <i>Gas Flows in Galaxies</i> Symposium, STScI	May 2012	
Session Chair, <i>Galaxies in Absorption</i> workshop, Boulder CO	Sep 2011	
<b>PRESS RELEASES</b>	NASA press release on my Galactic inflow and outflow research <a href="https://hubblesite.org/contents/news-releases/2019/news-2019-46.html">https://hubblesite.org/contents/news-releases/2019/news-2019-46.html</a> coverage in <i>Newsweek</i> , <i>Science Daily</i> , <i>Phys.org</i>	Oct 2019
	NASA press release on my Leading Arm research <a href="https://hubblesite.org/contents/news-releases/2018/news-2018-15.html">https://hubblesite.org/contents/news-releases/2018/news-2018-15.html</a> coverage in <i>Nature Astronomy</i> , <i>Forbes</i> , <i>Astronomy</i>	Mar 2018
	NASA press release on my Smith Cloud research <a href="https://hubblesite.org/contents/news-releases/2016/news-2016-04.html">https://hubblesite.org/contents/news-releases/2016/news-2016-04.html</a> coverage in <i>New Scientist</i> , <i>Huffington Post</i> , <i>Time</i>	Jan 2016
	NASA press release on my Galactic Center research <a href="https://hubblesite.org/contents/news-releases/2015/news-2015-03.html">https://hubblesite.org/contents/news-releases/2015/news-2015-03.html</a> coverage in <i>Science News</i> , <i>Astronomy</i> , <i>Huffington Post</i>	Jan 2015
	NASA press releases on my Magellanic Stream research <a href="https://hubblesite.org/contents/news-releases/2013/news-2013-27.html">https://hubblesite.org/contents/news-releases/2013/news-2013-27.html</a> coverage in <i>Nature News</i> , <i>Huffington Post</i> , <i>phys.org</i>	Aug 2013



<b>AWARDS</b>	NASA Group Achievement Award 2018, COS team for efforts to maximize FUV detector lifetime	STScI
	STScI Team Achievement Award 2018, COS 2025 team for efforts to extend the lifetime of COS	STScI
	AURA Science Award, 2016 for research on the nuclear wind of the Milky Way	STScI
	Early Excellence in Teaching Award, 2003 for outstanding achievement as a Teaching Assistant	Wisconsin
	Herschel Prize 2000, Top performer, Year 4 Astronomy	UCL
	Dean's List 2000, Mathematical/Physical Sciences	UCL
	Huggins Prize 1998, Top performer, Year 2 Astronomy	UCL
	Halley Prize 1997, Top performer, Year 1 Astronomy	UCL
<b>TEACHING</b>	Guest lecturer, <i>Cosmic Origins</i> Astro 101 class, TCU	2018
	Guest lecturer, Science Journalism class, Johns Hopkins University	2017
	Guest lecturer, Science Journalism class, Johns Hopkins University	2016
	Guest lecturer, Science Journalism class, Johns Hopkins University	2015
	Teacher, Introduction to IDL Seminar for PhD students, ESO	2010
	TA, Astronomy 113, <i>Hands on the Universe</i> , UW-Madison	2003
	TA, Astronomy 100, <i>Survey of Astronomy</i> , UW-Madison	2002
<b>RESEARCH INTERESTS</b>	<ul style="list-style-type: none"> <li>• Interstellar, circumgalactic, intergalactic media (ISM/CGM/IGM)</li> <li>• Galaxy evolution, formation, and structure</li> <li>• Magellanic Clouds, Magellanic Stream, Fermi Bubbles</li> <li>• High-velocity clouds (HVCs): metallicity, origin, fate</li> <li>• Ionization modeling of astrophysical plasmas</li> </ul>	

<b>OUTREACH</b>	Radio Interview on Hubble research, Fort Worth TX	Mar 2018
	Presenter, Public Talk on 25 Years of Hubble, Nantucket, MA	Jun 2016
	Presenter, Hubble Hangout online chat show, STScI	Jan 2015
	Speaker, Hubble Public Lecture Series, STScI	Jun 2014
	Project ASTRO, St Joseph's School, Cockeysville, MD (taught middle-school astronomy classes)	2012–2013
	Presenter, Hubble Science Briefing (webcast), STScI	Apr 2012
	Speaker, Hubble Public Lecture Series, STScI	Oct 2011
	Speaker, Cambridge Astronomical Association Meeting	Jun 2011
	Speaker, Year 11 Science, Stewards School, Harlow, UK	Mar 2011
	Speaker, Public Observing Night, IoA, Cambridge	Jan 2011
	Speaker, Scout Meeting, Nido de Aguilas School, Santiago	Jun 2010
	Speaker, International Professional Womens Group, Santiago	Aug 2009
	Instructor, Colegio Hellen Keller, Santiago, Chile (led astronomy classes for blind middle-school students)	May 2009
	Participant, Media Training Workshop, ESO, Santiago, Chile	Oct 2008
	Facilitator, <i>Nuits des Planètes</i> event, Observatoire de Paris (gave guided tours of the Observatory in French)	2007
	Presenter, planetarium show for preschool children, Madison	2005
	Guest Speaker, Space Place outreach facility, Madison	2003, 2005
	Presenter, <i>Universe in the Park</i> program, Wisconsin (gave 70 public lectures & telescope shows in WI State Parks)	2001–2005
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