



**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE

**Andrew J. Fox**  
– Curriculum Vitae –



Space Telescope Science Institute (STScI)  
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<b>EMPLOYMENT</b>	<b>ESA/AURA Astronomer, Level III, STScI</b>	2019–
	<b>ESA/AURA Astronomer, Level II, STScI</b>	2016–2019
	<b>ESA/AURA Astronomer, Level I, STScI</b>	2011–2016
	<b>Associate Research Scientist, CAS/JHU</b>	2021–
	<b>ESO Fellow, Santiago, Chile</b>	2007–2011
	<ul style="list-style-type: none"> <li>• 240 nights worked as VLT support astronomer</li> <li>• 4th year at Institute of Astronomy, Cambridge, UK</li> </ul>	
<b>EDUCATION</b>	<b>Marie Curie Fellow, Intra-European Fellowship</b>	2006–2007
	<ul style="list-style-type: none"> <li>• European Union research fellowship</li> <li>• Host: Institut d’Astrophysique de Paris (IAP), France</li> </ul>	
	<b>Ph.D. in Astronomy, Univ. Wisconsin-Madison</b>	2001–2005
<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, UW-Madison</b>	2002
	<b>Master in Science (MSci) in Astrophysics</b>	1996–2000
<ul style="list-style-type: none"> <li>• University College London (UCL), with 1<sup>st</sup> class honours</li> </ul>		
<b>RESEARCH INTERESTS</b>	<ul style="list-style-type: none"> <li>• Interstellar, circumgalactic, intergalactic gas</li> <li>• Milky Way: formation, evolution, and structure</li> <li>• Magellanic Clouds and Local Group galaxies</li> <li>• Galaxy evolution: gas flows, accretion, feedback, HVCs</li> <li>• Galactic Center: nuclear wind, Fermi Bubbles</li> </ul>	
<b>RESEARCH HIGHLIGHTS</b>	<p>101 refereed papers (24 as first author), &gt;4780 citations (ADS)</p> <p>10 HST programs and 2 NASA ADAP programs as PI</p> <p>9 NASA press releases from my research group</p> <p>&gt;100 scientific talks at meetings, workshops, and colloquia</p> <p>Founded Milky Way Halo research group at STScI</p> <p>Supervised 6 postdocs and 5 STScI staff on research projects</p>	

<b>COMMUNITY SERVICE</b>	Member, AAS Pierce & Warner Prize Committee	2024–2027
	Member, HabWorlds Observatory IGM-CGM Working Group	2024–
	External Ph.D. Examiner, University of Geneva, Switzerland	2024
	External Ph.D. Examiner, Arizona State University	2024
	Panel Chair, NRAO time allocation committee	2022–2023
	Reviewer, NRAO time allocation committee	2021–2022
	Reviewer, NSF Graduate Research Fellow Program (GRFP)	2021
	Reviewer, UK STFC Consolidated Grant Proposal	2020
	Reviewer, Academy of Finland, Astronomy Proposals	2020
	External Ph.D Examiner, Swinburne University, Australia	2019
	Member, Hubble Ultraviolet Legacy Working Group	2018
	Reviewer, NASA Hubble Fellow Selection Committee	2018
	Reviewer, NSF Astronomy & Astrophysics Grants (AAG)	2015–
	Reviewer, NASA Postdoctoral Program (NPP) Fellowships	2014–
	Reviewer, NASA Astrophysics Theory Program (ATP)	2013–
	Reviewer, NASA Astrophysics Data Analysis Program	2013–
	Reviewer, Chambliss student poster awards, AAS meetings	2014–2015
	Reviewer, German Science Foundation	2016
	Reviewer, Swedish National Space Board	2012
	Panelist, PhD Candidate Final-Year Interviews, Cambridge	2011
	Member, AAS Henri Chrétien Award Prize Committee	2007–2009
	Member, AAS, IAU	2002–
	Referee: ApJ, ApJL, ApJS, AJ, MNRAS, PASP, A&A	2004–
Referee: Nature Comm., Astronomy & Computing, Universe	2017–	
<b>AWARDS</b>	STScI Achievement Award, Evergreen Hiring team, STScI for efforts to diversify our technical hiring in INS	2022
	NASA Group Achievement Award, HST/COS team, STScI for efforts to maximize FUV detector lifetime	2018
	STScI Team Achievement Award, COS 2025 team, STScI for efforts to extend the lifetime of COS	2018
	AURA Science Award, STScI for research on the nuclear wind of the Milky Way	2016
	Early Excellence in Teaching Award, Wisconsin	2003
	Herschel Prize, Top performer, Year 4 Astronomy, UCL	2000
	Dean’s List, Mathematical/Physical Sciences, UCL	2000
	Huggins Prize, Top performer, Year 2 Astronomy, UCL	1998
Halley Prize, Top performer, Year 1 Astronomy, UCL	1997	

**FUNCTIONAL  
LEADERSHIP  
& SERVICE**

**At STScI:**

Chair, Strategic Science Advisory Board (SSAB)	2024
Chair, STScI Fellowship Selection Committee	2023
Co-Chair, INS Division Assessment Group (DAG)	2023
Chair, ESA Distinguished Lecture Selection Committee	2022
JWST Deputy User Support Lead	2022–
Chair, JWST Telescope Time Review Board (TTRB)	2022–
Member, Honors & Awards Committee	2022–
Deputy Manager, Instrument & Science Support Branch	2019–
Chair, HST Telescope Time Review Board (TTRB)	2018–2022
Elected Member, Executive Committee (EC)	2021–2023
Coordinator, HST Director's Discretionary Proposal Review	2014–2018
COS User Support Block Lead	2015–2019
Co-lead, COS G160M/1533 Central Wavelength Team	2017–2018
Member, Postdoctoral Fellow Hiring Committee	2017–2019
Member, ESA/AURA Science Recruitment Committee	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	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

**At ESO-Chile:**

Member, ESO Chile Fellowship Selection Committee	2009–2010
Coordinator, Extragalactic Research Group, ESO–Chile	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

**At Wisconsin**

Coordinator, Pine Bluff Observatory (0.9m), UW-Madison	2004–2005
Member, Graduate Admissions Committee, UW–Madison	2004
Graduate Student Czar (elected), UW–Madison	2002–2003

<b>SUCCESSFUL PROPOSALS AS PI</b>	NASA/HST Cycle 32, 25 orbits COS, GO 17746, \$106,875	2024
	<i>Locating Clouds in the Milky Way's Nuclear Outflow</i>	
	NASA/HST Cycle 32, 28 orbits COS, GO 17757, \$115,267 (Co-PI)	2024
	<i>Probing the front-side of the Circumgalactic Medium of the LMC</i>	
	ESO/VLT Period 11, Program 111.24PS.001, 26 hrs	2023
	<i>The Distance to the Magellanic Stream</i>	
	NASA/HST Cycle 30, archival proposal AR 17053, \$315,933	2022
	<i>The Cool CGM of the Large Magellanic Cloud</i>	
	NASA/HST Cycle 30, 8 orbits COS, GO 17209, \$122,821	2022
	<i>Circumgalactic Gas on the Outskirts of the Local Group: Sextans B</i>	
	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, GO 15887, \$162 707	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	2017
	<i>Surveying H I the Galactic Halo using 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, 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 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 Length Scale of IGM Metals using QSO Pairs</i>		
Nuffield Foundation Undergraduate Bursary 39696, 1440 GBP	2011	
<i>Chemical Abundances and the Origin of the Magellanic Stream</i>		

<b>SUCCESSFUL PROPOSALS AS PI (CONT.)</b>	ESO Period 85, VLT/UVES spectrograph, 14.7 hr, 085.C-0172	2009
	<i>Ionization in the Magellanic Stream; A Study of Galactic Accretion</i>	
	ESO Period 83, VLT/UVES spectrograph, 6 hr, 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, 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>		
WIYN 3.5m Semester 2004a, HYDRA/MOS, 3 nights	2004	
<i>A search for galaxies associated with intergalactic O VI absorbers</i>		
WIYN 0.9m Semester 2003a, MOSAIC imager, 3 nights	2003	
<i>A search for galaxies associated with intergalactic O VI absorbers</i>		
<b>SUCCESSFUL PROPOSALS AS CO-I</b>	HST Cycle 32 GO Proposal 17712, PI Benitez-Llambay	2024
	<i>Elucidating the Nature of a 'Starless' Dark Matter Halo Near M94</i>	
	HST Cycle 32 GO Proposal 17749, PI Fischer	2024
	<i>A UV IFU in Space: Observations of AGN Feedback in NGC 1068</i>	
	HST Cycle 32 GO Proposal 17703, PI de Cia	2024
	<i>STIS-ISM: STIS ISM Survey in the Milky Way</i>	
	HST Cycle 31 AR Proposal 17569, PI Cashman	2023
	<i>Tracing the Origin of High-Velocity Clouds with UV Dust Depletions</i>	
	HST Cycle 30 GO Proposal 17211, PI Bordoloi	2022
	<i>Search for Feedback Signatures on Massive Blue Galaxy Halos</i>	
	HST Cycle 30 AR Proposal 17060, PI Krishnarao	2022
	<i>The Radiation Field of LI(N)ERs: The Milky Way Center</i>	
	HST Cycle 29 AR Proposal 16363, PI Barger	2021
	<i>The LMC's Galactic Wind through the Eyes of ULLYSES</i>	
	HST Cycle 29 GO Proposal 16730, PI Lehner	2021
	<i>Connecting the Smoke to the Fire: Mapping Andromeda's CGM</i>	
	HST Cycle 29 GO Proposal 16750, PI Ramburuth-Hurt	2021
<i>Inhomogeneities and Pristine Gas Infall in the ISM</i>		
GTC/MEGARA Proposal 65-GTC39/21A, PI Cazzoli	2021	
<i>Mapping H-alpha Emission from the Galactic Nuclear Wind</i>		
HST Cycle 28 AR Proposal 16363, PI D'Onghia	2020	
<i>Searching for the Magellanic Corona: the Missing Element</i>		
HST Cycle 28 GO Proposal 16219, PI Barger	2020	
<i>Exploring the Origin of the M31-M33 Filament</i>		
HST Cycle 28 AR Proposal 16148, PI Wakker	2020	
<i>The Metallicity of High and Intermediate-Velocity Clouds</i>		

<b>SUCCESSFUL PROPOSALS CO-I (CONT.)</b>	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 Galaxy Halos</i>	
	HST Cycle 26 GO Proposal 15627, PI Adamo	2018
	<i>CLUES to galaxy evolution: young 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 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? 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 radiation at <math>z=1</math></i>		
GBT Semester 17B Proposal GBT17B-015, PI Bordoloi	2017	
<i>GBT mapping of 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 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? 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: 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>	
	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 VLT Period 83, UVES, 9 hr, proposal 083.A-0911, PI Vreeswijk	2008	
<i>GRB afterglow spectroscopy: 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 P81, UVES/VIMOS, 10 hr, 381.A-0634, PI Petitjean	2007	
<i>Spatial distribution of metals in the D4 CFHTLS deep-field</i>		
ESO VLT P79, UVES/FORS1, 3 nts, 079.A-0251, PI Petitjean	2006	
<i>Spatial distribution of metals in the D4 CFHTLS deep-field</i>		
ESO NTT P78, EMMI/SOFI, 3 nts, 078.A-0131, PI Guimarães	2006	
<i>Unraveling the mystery of the large gas concentrations at <math>z \sim 2</math></i>		
HST Cycle 15 AR Proposal 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 Mrk421</i>		

<b>SCIENCE TALKS</b>	Contributed talk, CGM Workshop, CfA Harvard, Boston, MA	August 2024
	<b>Invited talk</b> , 244th AAS meeting, Madison, WI	June 2024
	Contributed talk, Science with HST and JWST VII, Porto	May 2024
	<b>Invited talk</b> , Wolfe Symposium for Astrophysics, San Diego, CA	Mar 2024
	<b>Invited physics colloquium</b> , NC State, Raleigh, NC	Mar 2024
	<b>Invited keynote</b> , Milky Clouds over Manhattan, New York	Feb 2024
	<b>Invited seminar</b> , Science Community Webinar, Green Bank	Dec 2023
	<b>Invited talk</b> , CGM Group Meeting, CfA Harvard, MA	Nov 2023
	Contributed talk, Surveying the Milky Way, Caltech (virtual)	Oct 2023
	<b>Invited talk</b> , Gas in and around Galaxies, Stanley, ID	Aug 2023
	<b>Invited review</b> , Oases in the Cosmic Desert, Tempe, AZ	Feb 2023
	Contributed talk, 241st AAS Meeting, Seattle, WA	Jan 2023
	<b>Invited review</b> , What Matter(s) around Galaxies, Italy	Sep 2022
	<b>Invited review</b> , High-Velocity Clouds Workshop, Green Bank	Jun 2022
	<b>Invited colloquium</b> , Green Bank Observatory Colloquium	Mar 2022
	<b>Invited colloquium</b> , University of Geneva/EPFL Switzerland	Mar 2022
	Contributed talk, ESA 14th Science Workshop (SSW14)	Nov 2021
	<b>Invited colloquium</b> , University of Georgia	Sep 2021
	<b>Invited talk</b> , Galaxy Wind Workshop, JHU, Baltimore	Aug 2021
	ESA Science Seminar, The Magellanic Stream	Oct 2020
	Contributed talk, Network for UV Astronomy Workshop (virtual)	Oct 2020
	Contributed talk, The Local Group: Assembly and Evolution	Sept 2020
	Press release talk, Illumination of the Magellanic Stream	June 2020
	Contributed talk, 235th AAS Meeting, Honolulu, HI	Jan 2020
	<b>Invited speaker</b> , Magellanic Clouds Workshop, ESO, Munich	Sep 2019
	Contributed talk, 20 years of FUSE, Baltimore	June 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	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> , University 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>SCIENCE</b>	<b>Invited speaker</b> , Probing Baryons in the Universe, Sèvres	Nov 2016
<b>TALKS</b>	<b>Invited speaker</b> , Molecular Outflows Conference, Sesto, Italy	Feb 2016
<b>(CONT.)</b>	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, CGM Workshop, Notre Dame, IN	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
	Astronomy Seminar, University College London, UK	Jan 2011
	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

<b>SCIENCE</b>	Colloquium, Universidad de Chile, Santiago, Chile	Mar 2009
<b>TALKS</b>	Contributed talk, Inflow vs Outflow, Espinho, Portugal	Aug 2008
<b>(CONT.)</b>	<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
	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	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>ADVISING</b>	Supervisor, postdoctoral fellow Sapna Mishra, STScI	2023–
	Supervisor, postdoctoral fellow Dhanesh Krishnarao, STScI	2021–2022
	Supervisor, postdoctoral fellow Francie Cashman, STScI	2020–2024
	Supervisor, postdoctoral fellow David French, STScI	2018–2021
	Supervisor, postdoctoral fellow Trisha Ashley, STScI	2018–2023
	Project supervisor, postdoc. fellow Rongmon Bordoloi, STScI	2014–2015
	Project supervisor, staff scientist Debopam Som, STScI	2023–
	Project supervisor, operations analyst Christian Soto, STScI	2020–
	Project supervisor, staff scientist Elaine Frazer, STScI	2018–2020
	Project supervisor, support analyst Camellia Magness, STScI	2018–2020
	Project supervisor, research analyst Svea Hernandez, STScI	2014
	Supervisor, summer student Aassik Pazhani, STScI	2021
	Supervisor, summer student Jacqueline Antwi-Danso, STScI	2016
	Supervisor, summer student Tanveer Karim, Maria Mitchell Obs.	2016
	Supervisor, summer student Nimisha Kumari, STScI	2013
	Supervisor, summer student Corbin Taylor, STScI	2012
	Supervisor, summer student Stephen Lucas, IoA, Cambridge	2011
	Co-supervisor, visiting Ph.D. student Annalisa de Cia, ESO	2009
<b>MENTORING</b>	Mentor, ESA-AURA Astronomer Kate Rowlands, STScI	2024–
	Mentor, PhD student Scott Lucchini, UW Madison	2021–2023
	Mentor, postdoctoral fellow Sebastian Gomez, STScI	2021–2024
	Mentor, postdoctoral fellow Mitch Revalski, STScI	2020–2023
	Mentor, postdoctoral fellow Laura Prichard, STScI	2018–2021
	Mentor, staff scientist Joe Filippazzo, STScI	2018–2019
	Mentor, postdoctoral fellow Giovanni Bruno, STScI	2017–2018

<b>PRESS RELEASES</b>	NASA/ESA press release on LMC/MW Interaction <a href="https://hubblesite.org/contents/news-releases/2024/news-2024-031">https://hubblesite.org/contents/news-releases/2024/news-2024-031</a> coverage in <i>Phys.Org</i> , <i>BBC Sky at Night</i> , <i>India Today</i>	Nov 2024
	NASA press release on warm Magellanic Corona <a href="https://hubblesite.org/contents/news-releases/2022/news-2022-030">https://hubblesite.org/contents/news-releases/2022/news-2022-030</a> coverage in <i>Space.com</i> , <i>India Today</i>	Sept 2022
	NASA press release on Seyfert Flare at Galactic Center <a href="https://hubblesite.org/contents/news-releases/2020/news-2020-33">https://hubblesite.org/contents/news-releases/2020/news-2020-33</a> coverage in <i>Phys.Org</i> , <i>Sci Tech Daily</i>	June 2020
	NASA press release on 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 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 northern Fermi Bubble survey <a href="https://hubblesite.org/contents/news-releases/2017/news-2017-10.html">https://hubblesite.org/contents/news-releases/2017/news-2017-10.html</a> coverage in <i>Astronomy magazine</i> , <i>Science Daily</i>	Mar 2017
	NASA press release on 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 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 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>MEETING</b>	Organizer, <i>STScI Science Staff Retreat</i> , Baltimore, MD	Nov 2024
<b>PLANNING</b>	Session Chair, <i>244th AAS Meeting</i> , Madison, WI	Jun 2024
	Session Chair, <i>Wolfe Symposium in Astrophysics</i> , San Diego, CA	Mar 2024
	SOC Member, <i>High Velocity Clouds</i> Workshop, Green Bank, WV	Jun 2022
	Member, Discovery Seminar Series Planning Committee, STScI	Jan 2022
	Session Chair, <i>Baltimore Wind Workshop</i> , JHU	Aug 2021
	Organizer & Chair, AAS Special Session on Fermi Bubbles, virtual	Jun 2020
	SOC Member, <i>Diffuse Matter in Space</i> Workshop, Madison WI	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>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 Middle 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	
	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	
	<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	