

Andrew J. Fox Publications

First-author Refereed

- (22) **Fox, A. J.**, Richter, P., Ashley, T. et al. 2019, ApJ, in press (arXiv:1909.05561)
The Mass Inflow and Outflow Rates of the Milky Way
- (21) **Fox, A. J.**, Barger, K. A., Wakker, B. P. et al. 2018, ApJ, 854, 142
Chemical Abundances in the Leading Arm of the Magellanic Stream
- (20) **Fox, A. J.**, Lehner, N., Lockman F. J. et al. 2016, ApJL, 816, L11
On the Metallicity and Origin of the Smith High-Velocity Cloud
- (19) **Fox, A. J.**, Bordoloi, R., Savage, B. D. et al. 2015, ApJL, 799, L7
Probing the Fermi Bubbles in UV Absorption: the MW Biconical Nuclear Outflow
- (18) **Fox, A. J.**, Wakker, B. P., Barger, K. A., et al. 2014, ApJ, 787, 147
The COS/UVES Survey of the Magellanic Stream. III: Ionization, Total Mass, and Inflow Rate
- (17) **Fox, A. J.**, Lehner, N., Tumlinson, J., et al. 2013, ApJ, 778, 187
The high-ion content and kinematics of low-redshift Lyman Limit Systems
- (16) **Fox, A. J.**, Richter, P., Wakker, B. P., et al. 2013, ApJ, 772, 110
The COS/UVES Survey of the Magellanic Stream. I: One-Tenth Solar Abundances
- (15) **Fox, A. J.**, Ledoux, C., Petitjean, P., Srianand, R., & Guimarães, R. 2011, A&A, 534, A82
High-ion absorption in the proximate DLA system toward Q0841+129
- (14) **Fox, A. J.** 2011, ApJ, 730, 58
The Surprisingly Constant Strength of O VI Absorbers over Cosmic Time
- (13) **Fox, A. J.**, Wakker, B. P., Smoker, J. V, Richter, P. et al. 2010, ApJ, 718, 1046
Exploring the Origin and Fate of the Magellanic Stream with UV and Optical Absorption
- (12) **Fox, A. J.**, Prochaska, J. X., Ledoux, C., Petitjean, P., Wolfe, A. M., et al. 2009, A&A, 503, 731
Metal-enriched Plasma in Protogalactic Halos; A Survey of N V Absorption in DLAs
- (11) **Fox, A. J.**, Petitjean, P., Ledoux, C., & Srianand, R. 2009, Ap&SS, 320, 27
Studying Hot Gas using the Ultraviolet: High Ions in Galactic Halos
- (10) **Fox, A. J.**, Ledoux, C., Vreeswijk, P., Smette, A., & Jaunsen, A. 2008, A&A, 491, 189
High Ions in GRB Host Galaxies at $z=2-4$: Circumburst Plasma and Outflowing Interstellar Gas
- (9) **Fox, A. J.**, Bergeron, J., & Petitjean, P. 2008, MNRAS, 388, 1557
A Study of Quasar Proximity in O VI Absorbers at $z=2-3$
- (8) **Fox, A. J.**, Petitjean, P., Ledoux, C., & Srianand, R. 2007, ApJL, 668, L15
Multiphase Plasma in Sub-Damped Lyman-alpha System: a Hidden Metal Reservoir
- (7) **Fox, A. J.**, Ledoux, C., Petitjean, P., & Srianand, R. 2007, A&A, 473, 791
C IV absorption in damped Lyman- α systems: implications for galactic winds at $z \approx 2-3$
- (6) **Fox, A. J.**, Petitjean, P., Ledoux, C., & Srianand, R. 2007, A&A, 465, 171
Hot Halos around High Redshift Protogalaxies: Observations of O VI and N V in DLAs
- (5) **Fox, A. J.**, Savage, B. D., & Wakker, B. P., 2006, ApJS, 165, 229
A Survey of O VI, C III, and H I in Highly Ionized HVCs
- (4) **Fox, A. J.**, Savage, B. D., & Wakker, B. P., 2005, AJ, 130, 2418
Measurement of Noisy Absorption Lines using the Apparent Optical Depth Technique
- (3) **Fox, A. J.**, Savage, B. D., Wakker, B. P., et al. 2005, ApJ, 630, 332
Multi-phase High-Velocity Clouds toward HE 0226-4110 and PG 0953+414
- (2) **Fox, A. J.**, Savage, B. D., Wakker, B. P., et al. 2004, ApJ, 602, 738
Highly Ionized Gas Surrounding High-Velocity Cloud Complex C
- (1) **Fox, A. J.**, Savage, B. D., Sembach, K. R., et al. 2003, ApJ, 582, 793
Origins of the Highly Ionized Gas along the Line of Sight toward HD 116852

Co-author Refereed

- (40) Zheng, Y., Putman, M., Emerick, A., **Fox, A. J.**, et al. 2019, MNRAS, in press arXiv:1909.05407
The Circum-Galactic Medium of The Isolated Low-Mass Dwarf Galaxy WLM
- (39) Bland-Hawthorn, J., Maloney, P. R., Groves, B., & **Fox, A. J.** 2019, ApJ, accepted
The Large-Scale Ionization Cones in the Galaxy
- (38) Hernandez, S., Larsen, S., Aloisi, A. ... **Fox, A. J.**, et al. 2019, ApJ, 872, 116
The First Metallicity Study of M83 Using the Integrated UV Light of Star Clusters
- (37) Richter, P., Pingel, B., Wakker, B., Pingel, N., **Fox, A. J.**, et al. 2018, ApJ, 868, 112
Circumgalactic Gas at its extreme: the Tidal Gas Streams around the Whale Galaxy NGC 4631
- (36) Richter, P., **Fox, A. J.**, Wakker, B. P., et al. 2018, ApJ, 865, 145
New Constraints on the Nature of the Leading Arm from High-Resolution HST/STIS Observations
- (35) Karim, M. T, **Fox, A. J.**, Jenkins, E. B., et al. 2018, ApJ, 860, 98
Probing the Southern Fermi Bubble in Ultraviolet Absorption using Distant AGN
- (34) Pardy, S. A., D’Onghia, E., & **Fox, A. J.** 2018, ApJ, 857, 101
Formation of Multiple Magellanic Stream Filaments in the Dwarf-Dwarf Interaction Scenario
- (33) Barger, K. A., Madsen, G., **Fox, A. J.**, Wakker, B. P., et al. 2017, ApJ, 851, 110
Revealing The Properties Of The Magellanic Stream Using Optical Emission
- (32) Howk, J. C., Wotta, C. B., Berg, M. A. 2017, ... **Fox, A. J.**, et al. 2017, ApJ, 846, 141
Project AMIGA: A Minimal Covering Factor for Circumgalactic Gas around M31
- (31) Savage, B. D., Kim, T.-S. **Fox, A. J.**, Massa, D., et al. 2017, ApJ, 232, 25
Probing The Outflowing Multiphase Gas 1 Kpc Below The Galactic Center
- (30) O’Meara, Lehner, N., Howk., J. C., Prochaska, J. X., **Fox, A. J.**, et al. 2017, AJ, 154, 114
The Second Data Release Of The KODIAQ Survey
- (29) Bordoloi, R., **Fox, A. J.**, Savage, B. D., Jenkins, E. B., et al. 2017, ApJ, 834, 191
Mapping the Nuclear Outflow of the Milky Way: studying the Kinematics of the Fermi Bubble
- (28) Prochaska, J., Werk, J., Worseck, G., Tripp, T., ... **Fox, A. J.** 2017, ApJ, 837, 169
The COS-Halos Survey: the Metallicity of the Low-Redshift Circumgalactic Medium
- (27) Richter, P., Nuza, S. E., **Fox, A. J.**, et al. 2017, A&A, 607, A48
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- (26) Richter, P., Wakker, B. Fechner, C., ... **Fox, A. J.** 2016, A&A, 590, A68
An HST legacy survey of intervening Si III absorption in the halos of low-redshift galaxies
- (25) D’Onghia, E., & **Fox, A. J.**, 2016, ARAA, 54, 363
The Magellanic Stream: Circumnavigating the Galaxy
- (24) Werk, J., Prochaska, J., Cantalupo, S., **Fox, A. J.**, et al. 2016, ApJ, 833, 54
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- (23) O’Meara, J. M., Lehner, N., Howk, J. C., ... **Fox, A. J.**, et al. 2015, AJ, 150, 111
The First Data Release of the KODIAQ Survey
- (22) Tchernyshyov, K., Meixner, M., Seale, J., **Fox, A. J.**, et al. 2015, ApJ, 811, 78
Elemental Depletions in the Magellanic Clouds
- (21) Smoker, J. V., **Fox, A. J.**, & Keenan, F. 2015, MNRAS, 451, 4346
Large and Small-Scale Structure of the IVCs and HVCs towards the LMC and SMC
- (20) Smoker, J. V., Keenan, F., & **Fox, A. J.** 2015, A&A, 582, A59
Large and Small-Scale CaII Structure from Galactic and Magellanic Sightlines
- (19) Kumari, N., **Fox, A. J.**, Tumlinson J., et al. 2015, ApJ, 800, 44
A Compact HVC near the Magellanic Stream: Metallicity and Small-Scale Structure

- (18) Bordoloi, R., Tumlinson, J., Werk, J. K., ... **Fox, A. J.** et al. 2014, ApJ, 796, 136
The COS-Dwarfs Survey: The Carbon Reservoir around sub-L Galaxies*
- (17) Werk, J., Prochaska, J., Tumlinson, J. ... **Fox, A. J.**, et al. 2014, ApJ, 792, 8
The COS-Halos Survey: Physical Conditions and Baryonic Mass in the Low-Redshift CGM
- (16) Lehner, N., O'Meara, J., **Fox, A. J.**, et al. 2014, ApJ, 788, 119
Galactic and Circumgalactic OVI and its Impact on the Cosmological Metal and Baryon Budgets
- (15) Richter, P., **Fox, A. J.**, Ben Bekhti, N., Murphy, M., Bomans, D., & Frank, S. 2014, AN, 335, 92
High-resolution absorption spectroscopy of the circumgalactic medium of the Milky Way
- (14) Lehner, N., Howk, J. C., Tripp, T., ..., **Fox, A. J.**, & Ribaud, J. 2013, ApJ, 770, 138
The Bimodal Metallicity Distribution of the Cool Circumgalactic Medium at $z < 1$
- (13) Richter, P., **Fox, A. J.**, Wakker, B. P., et al. 2013, ApJ, 772, 111
The COS/UVES Absorption Survey of the Magellanic Stream III: the Fairall 9 Sightline
- (12) Rueff, K., Howk, J., Pitterle, M., Hirschauer, A., **Fox, A. J.**, & Savage, B. 2013, AJ, 145, 62
The Relationship Between Dense ISM and Diffuse Ionized Gas in Two Spirals
- (11) Vreeswijk, P. M., Ledoux, C., Raassen, A., ..., **Fox, A. J.** et al. 2013, A&A, 549, A22
Time-dependent excitation/ionization modeling of absorption-line variability in GRB 080310
- (10) Lehner, N., Howk, J. C., Thom, C., **Fox, A. J.**, et al. 2012, MNRAS, 424, 2896
HVCs as streams of ionized and neutral gas in the halo of the Milky Way
- (9) De Cia, A., Ledoux, C., **Fox, A. J.**, et al. 2012, A&A, 545, A64
Rapid-Response Mode VLT/UVES observations of super iron-rich gas exposed to GRB 080310;
- (8) Wakker, B. P., Savage, B. D., **Fox, A. J.**, Benjamin, R., & Shapiro, P. 2012, ApJ, 749, 157
Characterizing Transition Temperature Gas in the Galactic Corona
- (7) Patat, N., Moehler, S., O'Brien, K. ..., **Fox, A. J.**, et al. 2011, A&A, 527, 91
Optical Atmospheric Extinction over Cerro Paranal
- (6) Smoker, J. V., **Fox, A. J.**, & Keenan, F. 2011, MNRAS, 415, 1105
Distance Limits to Intermediate- and High-Velocity Clouds
- (5) Martayan, C., Blomme, R., Le Bouquin, J.-B., ..., **Fox, A. J.**, et al. 2011, BSRSL, 80, 400
X-Shooter, NACO, and AMBER observations of the LBV Pistol Star
- (4) Stalin, C., Petitjean, P., Srianand, R., **Fox, A. J.**, et al. 2010, MNRAS, 401, 294
Optical identification of XMM sources in the CFHTLS
- (3) Ledoux, C., Vreeswijk, P., Smette, A., **Fox, A. J.**, et al. 2009, A&A, 506, 661
Physical conditions in high-redshift GRB-DLA absorbers Implications for H₂ searches
- (2) Savage, B., Lehner, N., **Fox, A. J.**, Wakker, B., & Sembach, K. 2007, ApJ, 659, 1222
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- (1) Savage, B. D., Wakker, B. P., **Fox, A. J.**, & Sembach, K. R. 2005, ApJ, 619, 863
FUSE Observations of ISM and IGM Absorption Toward BL Lac Mrk 421

Books

- (1) Fox, A. J. & Davé, R. Eds., 2017, Springer Astrophysics & Space Science Library, Vol. 430
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Conference Proceedings and Non-Refereed Articles

- (16) **Fox, A. J.**, Barger, K. A., Bland-Hawthorn, J. et al. 2019, Science White Paper to Astro2020 Decadal Survey (arXiv:1903.04831)
The Magellanic Stream as a Probe of Astrophysics
- (15) **Fox, A. J.**, Ashley, T., Benjamin, R. A. et al. 2019, Science White Paper to Astro2020 Decadal Survey (arXiv:1903.04833)
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- (14) **Fox, A. J.**, Richter, P., Wakker, B. P., Lehner, N., Howk, J. C., Bland-Hawthorn, J. 2013, ESO Messenger, 153, 28
The Magellanic Stream - A Tail of Two Galaxies
- (13) **Fox, A. J.**, Leitherer, C., Blacker, B., & Reid, I. N. 2013, STScI Newsletter, 30, 1
Hubble Cycle 21 Proposal Selection
- (12) Smette, A., Ledoux, C., Vreeswijk, P., & **Fox, A. J.** 2013, GCN Circular 14848
GRB 130610A: VLT/UVES redshift
- (11) **Fox, A. J.**, Leitherer, C., & Blacker, B. 2012, STScI Newsletter, 29, 2
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- (10) De Cia, A., Ledoux, C., Vreeswijk, P., **Fox, A. J.**, et al. 2012, IAUS, 279, 327
Super iron-rich gas towards GRB 080310: SN yields or dust destruction
- (9) **Fox, A. J.** 2012, EAS Pub. Series, ed. M. de Avillez, 56, p159
Observed High-ion Absorption-line Signatures of Galactic Winds
- (8) Martayan, C., Blomme, R., Le Bouquin, J.-B., ..., **Fox, A. J.**, et al. 2011 Proc. IAU Symposium 272, ed. C. Neiner et al., p616
High-angular resolution observations of the Pistol Star
- (7) Smoker, J. V., Haddad, N., Iwert, O., ... **Fox, A. J.** et al. 2009, ESO Messenger, 138, 8
Report on the new MIT CCD in the UVES Red Detector Mosaic
- (6) **Fox, A. J.**, Petitjean, P., Ledoux, C., Srianand, R. 2008, Proc. Precision Spec. in Astroph. ESO Astroph. Symp., ed. N. Santos et al. (Berlin: Springer), p85
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- (5) **Fox, A. J.**, Petitjean, P., Ledoux, C., Srianand, R. 2007, ESO Messenger, 129, 38
Hot Gas in High-Redshift Protogalaxies: Observations of High-Ion Absorption in DLAs
- (4) **Fox, A. J.**, Savage, B. D., et al., ASP Conf Proc 348, ed. Sonneborn & Moos, p385
Multi-phase High-Velocity Clouds toward HE 0226-4110
- (3) Wakker, B. P., Savage, B. D., Sembach, K. R., Richter, P., & **Fox, A. J.** 2005 ASP Conf Proc 331, 'Extra-Planar Gas', ed. R. Braun (San Francisco: ASP), p11
High-velocity O VI in and near the Milky Way
- (2) **Fox, A. J.**, Savage, B. D., et al. 2005, ASP Conf Proc 331, 'Extra-Planar Gas'
Multi-phase High-Velocity Clouds toward HE 0226-4110 and PG 0953+414
- (1) **Fox, A. J.**, Savage, B. D., et al. 2003, The IGM/Galaxy Connection, ASSL, 281 ed. J. Rosenberg & M. Putman, (Dordrecht: Kluwer Academic Publishing), p175
Highly Ionized Gas in HVCs - The PG 1259+593 Sight Line through Complex C

Hubble Space Telescope Instrument Science Reports (ISRs)

First author

- (7) **Fox, A. J.**, James, B., & Frazer, E. 2019, COS ISR 2019-10
The Dispersion Solution for the New COS/FUV Cenwave G160M/1533
- (6) **Fox, A. J.**, James, B., & Frazer, E. 2019, COS ISR 2019-10
The Flux Calibration of the New COS/FUV Cenwave G160M/1533
- (5) **Fox, A. J.**, 2018, COS ISR 2018-08
The Spatial Resolution of the COS FUV channel at Lifetime Position 4
- (4) **Fox, A. J.**, James, B., Roman-Duval, J., et al. 2018, COS ISR 2018-07
The Spectral Resolution of the COS FUV channel at Lifetime Position 4
- (3) **Fox, A. J.**, Penton, S., & Taylor, J. 2017, COS ISR 2017-17
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- (2) **Fox, A. J.**, Debes, J., & Roman-Duval, J. 2015, COS ISR 2015-05
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- (1) **Fox, A. J.**, Oliveira, C., Penton, S., et al. 2015, COS ISR 2015-01
The COS/FUV Focus Sweep Program at Lifetime Position 3 (LENA2/13635)

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- (6) James, B., **Fox, A. J.**, & Frazer, E. 2019, COS ISR 2019-06
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- (5) Sankrit, R., Fischer, W. J., Magness, C., & **Fox, A. J.** 2019, COS ISR 2019-01
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- (4) Frazer, E., **Fox, A. J.**, James, B., et al. 2019, COS ISR 2019-08
Spectral Extraction of the New COS/FUV G160M/1533 Mode
- (3) Roman-Duval, J. Indriolo, N., de Rosa, G., , **Fox, A. J.** et al. 2018, COS ISR 2018-14
Exploratory Phase for Optimizing Lifetime Position 4 of the COS/FUV Detector
- (2) Sonnentrucker, P., **Fox, A. J.**, Penton, S., et al. 2017, COS ISR 2017-16
FUV Focus Sweep Exploratory Program for COS at LP4
- (1) Peebles, M. S., Tumlinson, J., **Fox, A. J.**, et al. 2017, COS ISR 2017-04
The Hubble Spectroscopic Legacy Archive

Publication Record as of June 1, 2019

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Number refereed publications: 62

Number first-author refereed publications: 21

Number of citations to refereed publications: 2372

Number of citations to first-author refereed publications: 954

Mean (median) number of citations per refereed paper: 38.3 (22.5)

h-index: 27

m-index: 1.5

i10-index: 45

i100-index: 5

Top cited paper: *The COS-Halos Survey: Physical Conditions and Baryonic Mass in the Low-redshift Circumgalactic Medium* by Jessica K. Werk et al. 2014, ApJ, 792, 8 (272 citations)

Top-cited first-author paper: *Multiphase High-Velocity Clouds toward HE 0226-4110 and PG 0953+414* by Andrew J. Fox et al. 2005, ApJ, 630, 332 (128 citations)