

Curriculum Vitae – Todd M. Tripp

Department of Astronomy
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Education

1997 University of Wisconsin-Madison, Ph.D., Astronomy
 1989 University of Arizona, B.S., Astronomy & Physics

Professional Employment

2013–present: Full Professor, University of Massachusetts-Amherst
 2008–2013: Associate Professor, University of Massachusetts-Amherst
 2003–2008: Assistant Professor, University of Massachusetts-Amherst
 1999–2003: Scientific Research Staff, Princeton University
 1997–1999: Postdoctoral Research Associate, Princeton University

Teaching and Student/Postdoc Supervision

- Astronomy 101, *The Solar System*: Spring '04, Fall '04, Fall '05, Fall '06, Fall '08, Fall '10, Fall '11, Fall '13, Fall '15, Fall '17, Fall '18, Fall '19
 - Required general education course, including lab starting Fall '10
 - Over 1900 students taught
 - Strong approval ratings for teacher effectiveness and course quality in student evaluations
- Astronomy 191A, *Astronomy First-Year Seminar*: Fall '14
 - First required astronomy course for UMass astro majors
 - In addition to introducing astro majors to current topics in astrophysics, includes career counselling and planning
- Astronomy 301/397A, *Writing about Astronomy*: Spring '05, Spring '07, Spring '08, Spring '09, Spring '10, Spring '11, Spring '12, Spring '13, Spring '14, Spring '15, Spring '16, Spring '17, Spring '18, Spring '19, Spring '20
 - Required course for undergraduate astronomy majors (junior-year writing component of UMass writing-proficiency program)
 - Strong approval ratings for teacher effectiveness and course quality in student evaluations
 - Nominated for distinguished teaching award multiple times
- Astronomy 791A, *Review of Current Literature (graduate level)*: Fall '07, Fall '16

Students and Postdocs

Undergraduate research

- David Valcourt, senior honors thesis (2005 - 2006)
- Hillary Allan, honors capstone project (2008)
- Ross Dubois, senior project (2008)
- Shaina Rogstad, senior honors thesis (2008 - 2009)
- Alexa Villaume, summer research project (2011)
- Michael Moshinsky, senior project (2014 - 2015)

Graduate research

- Jeremy Kepner, Princeton University: supervised portion of a three-part dissertation (1998-1999)

- Limin Song, University of Massachusetts: 2nd-year project and dissertation (2004 - 2010)
- David Friddell, University of Massachusetts: supervised 1st-year project (2004-2005)
- Sanchayetta Borthakur, University of Massachusetts: 2nd-year project and dissertation (2006 - 2010)
- Neil Patel, University of Massachusetts: 2nd-year project (2009 - 2011)
- Andrew Battisti, University of Massachusetts: 1st-year project (2010 - 2011)
- Joseph Burchett, University of Massachusetts: 2nd-year project and dissertation (2012 - 2017)
- Kathryn Grasha, University of Massachusetts: 2nd-year project (2012 - 2014)
- Karl Haislmaier, University of Massachusetts: 1st-year project, 2nd-year project, and dissertation (2013 - present)
- Aleksandar Popstefanija, University of Massachusetts: 2nd-year project (2018 - present)

Postdoctoral research

- Bastien Aracil, postdoctoral researcher, University of Massachusetts (2003 - 2006)
- Joseph Meiring, postdoctoral researcher, University of Massachusetts (2010 - 2012)

Other advising responsibilities

- Advisor for 20 teaching assistants (primarily for Astro 101, but also for Astro 301)
- Academic advisor for UMass undergraduate astronomy majors, 2010 - 2018

Research Grants

- Total grant funding brought to UMass (as of Spring 2020): \$2,615,969
- Thirty-nine funded grants at UMass
- Numerous additional observing proposals with optical and radio telescopes

Conference Talks

- Thirty-nine invited talks at national and international conferences
- Twenty-three invited department colloquia at various universities and NASA centers

Service Highlights

- Chair of the Five-College Astronomy Department (2018 - present)
- Member, Astro2010 Decadal Survey, National Academy of Sciences (Program Prioritization Panel for Electromagnetic Observations from Space), 2009 – 2010
- Multiyear member (including chair) of multiple Hubble Space Telescope/Space Telescope Science Institute advisory committees (Financial Review Committee, Space Telescope Users Committee, Mikulski Archive for Space Telescopes Users Committee)
- Member (including chair) of eight NASA grant and telescope time allocation committees (including allocation committees for the Hubble Space Telescope, the Far Ultraviolet Spectroscopic Explorer, and the Chandra X-ray Observatory) as well as numerous external reviewer contributions
- Member of numerous department committees (including Graduate Admissions, Department Personnel & Merit, five faculty search committees, four postdoc search committees, First-year Exam, Second-year Exam (Quals), Undergraduate Curriculum, Graduate Curriculum) and dissertation committees (internal & external)

Todd M. Tripp – Refereed Publications (Reverse Chronological Order)

Haislmaier, K. J., Tripp, T. M., Katz, N., Prochaska, J. X., Burchett, J. N., O’Meara, J. M., Werk, J. K. 2020, The COS Absorption Survey of Baryons Harbors: Unveiling the Physical Conditions of Metal-Rich Circumgalactic Gas Through Multiphase Bayesian Ionization Modeling. *Monthly Notices of the Royal Astronomical Society* (to be submitted April 2020)

Bowen, D. V., Tripp, T. M., Jenkins, E. B., Pettini, M., Chelouche, D., Cen, R., York, D. G. 2020, Absorption line abundances in the SMC-like galaxy UGC5282: evidence for ISM dilution from inflows on kiloparsec scales. *The Astrophysical Journal*, in press (arXiv:2003.06429)

Burchett, J. N., Elek, O., Tejos, N., et al. 2020, Revealing the Dark Threads of the Cosmic Web. *The Astrophysical Journal* 891, L35.

- Fynbo, J. P. U., Møller, P., Heintz, K. E., et al. 2020, Gaia-assisted discovery of a detached low-ionisation BAL quasar with very large ejection velocities. *Astronomy and Astrophysics* 634, A111.
- Hamann, F., Tripp, T. M., Rupke, D., Veilleux, S. 2019, On the emergence of THOUSANDS of absorption lines in the quasar PG 1411+442: a clumpy high-column density outflow from the broad emission-line region? *Monthly Notices of the Royal Astronomical Society* 487, 5041.
- Prochaska, J. X., Burchett, J. N., Tripp, T. M., et al. 2019, The COS Absorption Survey of Baryon Harbors: The Galaxy Database and Cross-correlation Analysis of O VI Systems. *The Astrophysical Journal Supplement Series* 243, 24.
- Khaire, V., Walther, M., Hennawi, J. F., et al. 2019, The power spectrum of the Lyman- α Forest at $z < 0.5$. *Monthly Notices of the Royal Astronomical Society* 486, 769.
- Bielby, R. M., Stott, J. P., Cullen, F., et al. 2019, Quasar Sightline and Galaxy Evolution (QSAGE) survey - I. The galaxy environment of O VI absorbers up to $z = 1.4$ around PKS 0232-04. *Monthly Notices of the Royal Astronomical Society* 486, 21.
- Burchett, J. N., Tripp, T. M., Prochaska, J. X., et al. 2019, The COS Absorption Survey of Baryon Harbors (CASBaH): Warm-Hot Circumgalactic Gas Reservoirs Traced by Ne VIII Absorption. *The Astrophysical Journal* 877, L20.
- Frye, B. L., Bowen, D. V., Tripp, T. M., Jenkins, E. B., Pettini, M., Ellison, S. L. 2019, A Sub-damped Ly α Absorber with Unusual Abundances: Evidence of Gas Recycling in a Low-redshift Galaxy Group. *The Astrophysical Journal* 872, 129.
- Ge, C., Wang, Q. D., Burchett, J. N., et al. 2018, Probing the dynamical state, baryon content, and multiphase nature of galaxy clusters with bright background QSOs. *Monthly Notices of the Royal Astronomical Society* 481, 4111.
- Bordoloi, R., Prochaska, J. X., Tumlinson, J., Werk, J. K., Tripp, T. M., Burchett, J. N. 2018, On the CGM Fundamental Plane: The Halo Mass Dependency of Circumgalactic H I. *The Astrophysical Journal* 864, 132.
- Burchett, J. N., Tripp, T. M., Wang, Q. D., Willmer, C. N. A., Bowen, D. V., Jenkins, E. B. 2018, Warm-hot gas in X-ray bright galaxy clusters and the H I-deficient circumgalactic medium in dense environments. *Monthly Notices of the Royal Astronomical Society* 475, 2067.
- Scowen, P. A., Tripp, T., Beasley, M., et al. 2017, Finding the UV-Visible Path Forward: Proceedings of the Community Workshop to Plan the Future of UV/Visible Space Astrophysics. *Publications of the Astronomical Society of the Pacific* 129, 076001.
- Prochaska, J. X., Werk, J. K., Worseck, G., et al. 2017, The COS-Halos Survey: Metallicities in the Low-redshift Circumgalactic Medium. *The Astrophysical Journal* 837, 169.
- Werk, J. K., Prochaska, J. X., Cantalupo, S., et al. 2016, The COS-Halos Survey: Origins of the Highly Ionized Circumgalactic Medium of Star-Forming Galaxies. *The Astrophysical Journal* 833, 54.
- Burchett, J. N., Tripp, T. M., Bordoloi, R., et al. 2016, A Deep Search for Faint Galaxies Associated with Very Low Redshift C IV Absorbers. III. The Mass- and Environment-dependent Circumgalactic Medium. *The Astrophysical Journal* 832, 124.
- Bowen, D. V., Chelouche, D., Jenkins, E. B., et al. 2016, The Structure of the Circumgalactic Medium of Galaxies: Cool Accretion Inflow Around NGC 1097. *The Astrophysical Journal* 826, 50.
- Veilleux, S., Meléndez, M., Tripp, T. M., Hamann, F., Rupke, D. S. N. 2016, The Complete Ultraviolet Spectrum of the Archetypal “Wind-dominated” Quasar Mrk 231: Absorption and Emission from a High-speed Dusty Nuclear Outflow. *The Astrophysical Journal* 825, 42.
- Ge, C., Wang, Q. D., Tripp, T. M., Li, Z., Gu, Q., Ji, L. 2016, Baryon content and dynamic state of galaxy clusters: XMM-Newton observations of A1095 and A1926. *Monthly Notices of the Royal Astronomical Society* 459, 366.
- Burchett, J. N., Tripp, T. M., Prochaska, J. X., et al. 2015, A Deep Search For Faint Galaxies Associated With Very Low-redshift C IV Absorbers. II. Program Design, Absorption-line Measurements, and Absorber Statistics. *The Astrophysical Journal* 815, 91.
- Bordoloi, R., Tumlinson, J., Werk, J. K., et al. 2014, The COS-Dwarfs Survey: The Carbon Reservoir around Sub-L* Galaxies. *The Astrophysical Journal* 796, 136.
- Borthakur, S., Momjian, E., Heckman, T. M., et al. 2014, Small-scale Properties of Atomic Gas in Extended Disks of Galaxies. *The Astrophysical Journal* 795, 98.
- Werk, J. K., Prochaska, J. X., Tumlinson, J., et al. 2014, The COS-Halos Survey: Physical Conditions and Baryonic Mass in the Low-redshift Circumgalactic Medium. *The Astrophysical Journal* 792, 8.

- Johnson, S. D., Chen, H.-W., Mulchaey, J. S., Tripp, T. M., Prochaska, J. X., Werk, J. K. 2014, Discovery of a transparent sightline at $\rho \lesssim 20$ kpc from an interacting pair of galaxies. *Monthly Notices of the Royal Astronomical Society* 438, 3039.
- Burchett, J. N., Tripp, T. M., Werk, J. K., et al. 2013, A Deep Search for Faint Galaxies Associated with Very Low-redshift C IV Absorbers: A Case with Cold-accretion Characteristics. *The Astrophysical Journal* 779, L17.
- Fox, A. J., Lehner, N., Tumlinson, J., et al. 2013, The High-ion Content and Kinematics of Low-redshift Lyman Limit Systems. *The Astrophysical Journal* 778, 187.
- Tumlinson, J., Thom, C., Werk, J. K., et al. 2013, The COS-Halos Survey: Rationale, Design, and a Census of Circumgalactic Neutral Hydrogen. *The Astrophysical Journal* 777, 59.
- Ganguly, R., Lynch, R. S., Charlton, J. C., et al. 2013, A census of quasar-intrinsic absorption in the Hubble Space Telescope archive: systems from high-resolution echelle spectra. *Monthly Notices of the Royal Astronomical Society* 435, 1233.
- Lehner, N., Howk, J. C., Tripp, T. M., et al. 2013, The Bimodal Metallicity Distribution of the Cool Circumgalactic Medium at $z < 1$. *The Astrophysical Journal* 770, 138.
- Meiring, J. D., Tripp, T. M., Werk, J. K., et al. 2013, QSO Absorption Systems Detected in Ne VIII: High-metallicity Clouds with a Large Effective Cross Section. *The Astrophysical Journal* 767, 49.
- Werk, J. K., Prochaska, J. X., Thom, C., et al. 2013, The COS-Halos Survey: An Empirical Description of Metal-line Absorption in the Low-redshift Circumgalactic Medium. *The Astrophysical Journal Supplement Series* 204, 17.
- Veilleux, S., Tripp, T. M., Hamann, F., et al. 2013, The Surprising Absence of Absorption in the Far-ultraviolet Spectrum of Mrk 231. *The Astrophysical Journal* 764, 15.
- Thom, C., Tumlinson, J., Werk, J. K., et al. 2012, Not Dead Yet: Cool Circumgalactic Gas in the Halos of Early-type Galaxies. *The Astrophysical Journal* 758, L41.
- Lehner, N., Howk, J. C., Thom, C., et al. 2012, High-velocity clouds as streams of ionized and neutral gas in the halo of the Milky Way. *Monthly Notices of the Royal Astronomical Society* 424, 2896.
- Tripp, T. M., Song, L. 2012, The 21 cm “Outer Arm” and the Outer-galaxy High-velocity Clouds: Connected by Kinematics, Metallicity, and Distance. *The Astrophysical Journal* 746, 173.
- Werk, J. K., Prochaska, J. X., Thom, C., et al. 2012, The COS-Halos Survey: Keck LRIS and Magellan MagE Optical Spectroscopy. *The Astrophysical Journal Supplement Series* 198, 3.
- Battisti, A. J., Meiring, J. D., Tripp, T. M., et al. 2012, The First Observations of Low-redshift Damped Ly α Systems with the Cosmic Origins Spectrograph: Chemical Abundances and Affiliated Galaxies. *The Astrophysical Journal* 744, 93.
- Ribaldo, J., Lehner, N., Howk, J. C., et al. 2011, Evidence for Cold Accretion: Primitive Gas Flowing onto a Galaxy at $z \sim 0.274$. *The Astrophysical Journal* 743, 207.
- Giavalisco, M., Vanzella, E., Salimbeni, S., et al. 2011, Discovery of Cold, Pristine Gas Possibly Accreting onto an Overdensity of Star-forming Galaxies at Redshift $z \sim 1.6$. *The Astrophysical Journal* 743, 95.
- Tripp, T. M., Meiring, J. D., Prochaska, J. X., et al. 2011, The Hidden Mass and Large Spatial Extent of a Post-Starburst Galaxy Outflow. *Science* 334, 952.
- Tumlinson, J., Thom, C., Werk, J. K., et al. 2011, The Large, Oxygen-Rich Halos of Star-Forming Galaxies Are a Major Reservoir of Galactic Metals. *Science* 334, 948.
- Thom, C., Werk, J. K., Tumlinson, J., et al. 2011, The Gas-Galaxy Connection at $z_{\text{abs}} = 0.35$: O VI and H I Absorption toward J 0943+0531. *The Astrophysical Journal* 736, 1.
- da Silva, R. L., Prochaska, J. X., Rosario, D., Tumlinson, J., Tripp, T. M. 2011, Shining Light on Merging Galaxies. I. The Ongoing Merger of a Quasar with a “Green Valley” Galaxy. *The Astrophysical Journal* 735, 54.
- Jenkins, E. B., Tripp, T. M. 2011, The Distribution of Thermal Pressures in the Diffuse, Cold Neutral Medium of Our Galaxy. II. An Expanded Survey of Interstellar C I Fine-structure Excitations. *The Astrophysical Journal* 734, 65.
- Tumlinson, J., Werk, J. K., Thom, C., et al. 2011, Multiphase Gas in Galaxy Halos: The O VI Lyman-limit System toward J1009+0713. *The Astrophysical Journal* 733, 111.
- Meiring, J. D., Tripp, T. M., Prochaska, J. X., et al. 2011, The First Observations of Low-redshift Damped Ly α Systems with the Cosmic Origins Spectrograph. *The Astrophysical Journal* 732, 35.
- Borthakur, S., Tripp, T. M., Yun, M. S., et al. 2011, A Green Bank Telescope Survey for H I 21 cm Absorption in the Disks and Halos of Low-redshift Galaxies. *The Astrophysical Journal* 727, 52.

- Song, L., Tripp, T. M., Wang, Q. D., et al. 2010, Variable O VI and N V Emission from the X-ray Binary LMC X-3: Heating of the Black Hole Companion. *The Astronomical Journal* 140, 794.
- Williger, G. M., Carswell, R. F., Weymann, R. J., et al. 2010, The low-redshift Ly α forest towards 3C 273. *Monthly Notices of the Royal Astronomical Society* 405, 1736.
- Yao, Y., Wang, Q. D., Penton, S. V., Tripp, T. M., Shull, J. M., Stocke, J. T. 2010, The Dearth of Chemically Enriched Warm-Hot Circumgalactic Gas. *The Astrophysical Journal* 716, 1514.
- Borthakur, S., Tripp, T. M., Yun, M. S., et al. 2010, Using 21 cm Absorption in Small Impact Parameter Galaxy-Quasar Pairs to Probe Low-redshift Damped and Sub-damped Ly α Systems. *The Astrophysical Journal* 713, 131.
- Yao, Y., Tripp, T. M., Wang, Q. D., et al. 2009, X-raying the Intergalactic O VI Absorbers. *The Astrophysical Journal* 697, 1784.
- Frye, B. L., Bowen, D. V., Hurley, M., et al. 2008, Observations of the Gas Reservoir around a Star-Forming Galaxy in the Early Universe. *The Astrophysical Journal* 685, L5.
- Tripp, T. M., Sembach, K. R., Bowen, D. V., et al. 2008, A High-Resolution Survey of Low-Redshift QSO Absorption Lines: Statistics and Physical Conditions of O VI Absorbers. *The Astrophysical Journal Supplement Series* 177, 39.
- Bowen, D. V., Jenkins, E. B., Tripp, T. M., et al. 2008, The Far Ultraviolet Spectroscopic Explorer Survey of O VI Absorption in the Disk of the Milky Way. *The Astrophysical Journal Supplement Series* 176, 59.
- Lehner, N., Savage, B. D., Richter, P., Sembach, K. R., Tripp, T. M., Wakker, B. P. 2007, Physical Properties, Baryon Content, and Evolution of the Ly α Forest: New Insights from High-Resolution Observations at $z < 0.4$. *The Astrophysical Journal* 658, 680.
- Rosenberg, J. L., Bowen, D. V., Tripp, T. M., Brinks, E. 2006, The Nearby Damped Ly α Absorber SBS 1543+593: A Large H I Envelope in a Gas-rich Galaxy Group. *The Astronomical Journal* 132, 478.
- Ganguly, R., Sembach, K. R., Tripp, T. M., Savage, B. D., Wakker, B. P. 2006, High-Resolution Absorption Spectroscopy of Multiphase, High-Metallicity Gas Associated with the Luminous Quasar HE 0226-4110. *The Astrophysical Journal* 645, 868.
- Tripp, T. M., Aracil, B., Bowen, D. V., Jenkins, E. B. 2006, The O VI Absorbers toward PG 0953+415: High-Metallicity, Cosmic-Web Gas Far from Luminous Galaxies. *The Astrophysical Journal* 643, L77.
- Lehner, N., Savage, B. D., Wakker, B. P., Sembach, K. R., Tripp, T. M. 2006, Low-Redshift Intergalactic Absorption Lines in the Spectrum of HE 0226-4110. *The Astrophysical Journal Supplement Series* 164, 1.
- Aracil, B., Tripp, T. M., Bowen, D. V., Prochaska, J. X., Chen, H.-W., Frye, B. L. 2006, High-metallicity, photoionized gas in intergalactic large-scale filaments. *Monthly Notices of the Royal Astronomical Society* 367, 139.
- Friedman, S. D., Hébrard, G., Tripp, T. M., Chayer, P., Sembach, K. R. 2006, The Deuterium, Oxygen, and Nitrogen Abundance toward LSE 44. *The Astrophysical Journal* 638, 847.
- Jenkins, E. B., Tripp, T. M. 2006, Measurements of the f-Values of the Resonance Transitions of Ni II at 1317.217 and 1370.132 Å. *The Astrophysical Journal* 637, 548.
- Williger, G. M., Heap, S. R., Weymann, R. J., et al. 2006, The Low-Redshift Ly α Forest toward PKS 0405-123. *The Astrophysical Journal* 636, 631.
- Richter, P., Savage, B. D., Sembach, K. R., Tripp, T. M. 2006, Tracing baryons in the warm-hot intergalactic medium with broad Ly α absorption. *Astronomy and Astrophysics* 445, 827.
- Hébrard, G., Tripp, T. M., Chayer, P., et al. 2005, FUSE Determination of a Low Deuterium Abundance along an Extended Sight Line in the Galactic Disk. *The Astrophysical Journal* 635, 1136.
- Bowen, D. V., Jenkins, E. B., Pettini, M., Tripp, T. M. 2005, A Comparison of Absorption- and Emission-Line Abundances in the Nearby Damped Ly α Galaxy SBS 1543+593. *The Astrophysical Journal* 635, 880.
- Wang, Q. D., Yao, Y., Tripp, T. M., et al. 2005, Warm-Hot Gas in and around the Milky Way: Detection and Implications of O VII Absorption toward LMC X-3. *The Astrophysical Journal* 635, 386.
- Fox, A. J., Wakker, B. P., Savage, B. D., Tripp, T. M., Sembach, K. R., Bland-Hawthorn, J. 2005, Multiphase High-Velocity Clouds toward HE 0226-4110 and PG 0953+414. *The Astrophysical Journal* 630, 332.
- Savage, B. D., Lehner, N., Wakker, B. P., Sembach, K. R., Tripp, T. M. 2005, Detection of Ne VIII in the Low-Redshift Warm-Hot Intergalactic Medium. *The Astrophysical Journal* 626, 776.

- Ganguly, R., Sembach, K. R., Tripp, T. M., Savage, B. D. 2005, Highly Ionized Gas in the Galactic Halo and the High-Velocity Clouds toward PG 1116+215. *The Astrophysical Journal Supplement Series* 157, 251.
- Jenkins, E. B., Bowen, D. V., Tripp, T. M., Sembach, K. R. 2005, A Near-Solar Metallicity, Nitrogen-deficient Lyman Limit Absorber Associated with Two S0 Galaxies. *The Astrophysical Journal* 623, 767.
- Prochaska, J. X., Tripp, T. M., Howk, J. C. 2005, Evidence of Correlated Titanium and Deuterium Depletion in the Galactic Interstellar Medium. *The Astrophysical Journal* 620, L39.
- Tripp, T. M., Jenkins, E. B., Bowen, D. V., Prochaska, J. X., Aracil, B., Ganguly, R. 2005, Discovery of a Primitive Damped Ly α Absorber near an X-Ray-bright Galaxy Group in the Virgo Cluster. *The Astrophysical Journal* 619, 714.
- Sembach, K. R., Tripp, T. M., Savage, B. D., Richter, P. 2004, Physical Properties and Baryonic Content of Low-Redshift Intergalactic Ly α and O VI Absorption Line Systems: The PG 1116+215 Sight Line. *The Astrophysical Journal Supplement Series* 155, 351.
- Richter, P., Savage, B. D., Tripp, T. M., Sembach, K. R. 2004, FUSE and STIS Observations of the Warm-hot Intergalactic Medium toward PG 1259+593. *The Astrophysical Journal Supplement Series* 153, 165.
- Sembach, K. R., Wakker, B. P., Tripp, T. M., et al. 2004, The Deuterium-to-Hydrogen Ratio in a Low-Metallicity Cloud Falling onto the Milky Way. *The Astrophysical Journal Supplement Series* 150, 387.
- Fox, A. J., Savage, B. D., Wakker, B. P., Richter, P., Sembach, K. R., Tripp, T. M. 2004, Highly Ionized Gas Surrounding High-Velocity Cloud Complex C. *The Astrophysical Journal* 602, 738.
- Tripp, T. M., Wakker, B. P., Jenkins, E. B., et al. 2003, Complex C: A Low-Metallicity, High-Velocity Cloud Plunging into the Milky Way. *The Astronomical Journal* 125, 3122.
- Jenkins, E. B., Bowen, D. V., Tripp, T. M., et al. 2003, Absorption-Line Systems and Galaxies in Front of the Second-brightest Quasar, PHL 1811. *The Astronomical Journal* 125, 2824.
- Tripp, T. M., Jenkins, E. B., Williger, G. M., et al. 2002, The Heavy-Element Enrichment of Ly α Clouds in the Virgo Supercluster. *The Astrophysical Journal* 575, 697.
- Yuan, Q., Green, R. F., Brotherton, M., Tripp, T. M., Kaiser, M. E., Kriss, G. A. 2002, Associated Absorption Lines in the Radio-loud Quasar 3C 351: Far-Ultraviolet Echelle Spectroscopy from the Hubble Space Telescope. *The Astrophysical Journal* 575, 687.
- Sonneborn, G., André, M., Oliveira, C., et al. 2002, Interstellar Deuterium, Nitrogen, and Oxygen Abundances toward BD +28°4211: Results from the FUSE Mission. *The Astrophysical Journal Supplement Series* 140, 51.
- Friedman, S. D., Howk, J. C., Chayer, P., et al. 2002, Deuterium and Oxygen toward Feige 110: Results from the FUSE Mission. *The Astrophysical Journal Supplement Series* 140, 37.
- Moos, H. W., Sembach, K. R., Vidal-Madjar, A., et al. 2002, Abundances of Deuterium, Nitrogen, and Oxygen in the Local Interstellar Medium: Overview of First Results from the FUSE Mission. *The Astrophysical Journal Supplement Series* 140, 3.
- Savage, B. D., Sembach, K. R., Tripp, T. M., Richter, P. 2002, Far Ultraviolet Spectroscopic Explorer and Space Telescope Imaging Spectrograph Observations of Intervening O VI Absorption Line Systems in the Spectrum of PG 0953+415. *The Astrophysical Journal* 564, 631.
- Smette, A., Heap, S. R., Williger, G. M., Tripp, T. M., Jenkins, E. B., Songaila, A. 2002, Hubble Space Telescope Space Telescope Imaging System Observations of the He II Gunn-Peterson Effect toward HE 2347-4342. *The Astrophysical Journal* 564, 542.
- Jenkins, E. B., Tripp, T. M. 2001, The Distribution of Thermal Pressures in the Interstellar Medium from a Survey of C I Fine-Structure Excitation. *The Astrophysical Journal Supplement Series* 137, 297.
- Tripp, T. M., Giroux, M. L., Stocke, J. T., Tumlinson, J., Oegerle, W. R. 2001, The Ionization and Metallicity of the Intervening O VI Absorber at $z=0.1212$ in the Spectrum of H1821+643. *The Astrophysical Journal* 563, 724.
- Cen, R., Tripp, T. M., Ostriker, J. P., Jenkins, E. B. 2001, Revealing the Warm-Hot Intergalactic Medium with O VI Absorption. *The Astrophysical Journal* 559, L5.
- Richter, P., Sembach, K. R., Wakker, B. P., et al. 2001, The Diversity of High- and Intermediate-Velocity Clouds: Complex C versus IV Arch. *The Astrophysical Journal* 559, 318.
- Kriss, G. A., Shull, J. M., Oegerle, W., et al. 2001, Resolving the Structure of Ionized Helium in the Intergalactic Medium with the Far Ultraviolet Spectroscopic Explorer. *Science* 293, 1112.
- Davé, R., Tripp, T. M. 2001, The Statistical and Physical Properties of the Low-Redshift Ly α Forest Observed with the Hubble Space Telescope/STIS. *The Astrophysical Journal* 553, 528.

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- Bowen, D. V., Tripp, T. M., Jenkins, E. B. 2001, Damped Ly α Absorption from a Nearby Low Surface Brightness Galaxy. *The Astronomical Journal* 121, 1456.
- Sonneborn, G., Tripp, T. M., Ferlet, R., et al. 2000, Spatial Variability in the Ratio of Interstellar Atomic Deuterium to Hydrogen. II. Observations toward γ^2 Velorum and ζ Puppis by the Interstellar Medium Absorption Profile Spectrograph. *The Astrophysical Journal* 545, 277.
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