
Christopher William Churchill

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EDUCATION

- 1997 **Ph.D. Astronomy and Astrophysics** (advisor: Steven S. Vogt)
 – University of California, Santa Cruz, CA
- 1992 **M.S. Astronomy and Astrophysics** (advisor: Graeme H. Smith)
 – University of California, Santa Cruz, CA
- 1989 **B.S. Physics** GPA 3.51 (advisor: Keith Stowe)
 – California Polytechnic State University, San Luis Obispo, CA

EMPLOYMENT

- 2015–pres **Professor of Astronomy**
 – New Mexico State University
- 2009–2015 **Associate Professor of Astronomy**
 – New Mexico State University
- 2003–2009 **Assistant Professor of Astronomy**
 – New Mexico State University
- 2000–2003 **Graduate Faculty Research Associate**
 – Pennsylvania State University
- 1997–1999 **Eberly School of Science Distinguished Postdoctoral Fellow**
 – Pennsylvania State University
- 1992–1996 **Graduate Research Assistant / Graduate Student Teaching Assistant**
 – University of California, Santa Cruz
- 1992–1993 **Instructor**
 – Cabrillo College
- 1988 **Research Assistant**
 – Argonne National Laboratory, High Energy Physics Division
- 1985–1986 **Scientific Programmer**
 – NASA, Ames Research Center, Space Sciences Division

TEACHING EXPERIENCE

- 2003–pres **New Mexico State University**
 – ASTR 110 (13x) *Introduction to Astronomy*
 – ASTR 305 (11x) *Life in the Universe*
 – ASTR 308 (7x) *Into the Final Frontier*
 – ASTR 500 (4x) *Graduate Seminar*
 – ASTR 545 (6x) *Stellar Atmospheres and Spectroscopy*
 – ASTR 605 (1x) *Interstellar Medium*
 – ASTR 698 (1x) *Evolution of the IGM via QSO Absorbers*
- 1997–2003 **Pennsylvania State University**
 – ASTR 001 (2x) *Introduction to Astronomy*
 – ASTR 010 (7x) *Observational Astronomy Lab*
 – ASTR 498 (2x) *Space Colonization*
 – ASTR 500 (1x) *Graduate Seminar on Quasar Absorption Lines*
- 1993 **University of California, Santa Cruz**
 – ASTR 010 (1x) *Introduction to Astronomy*
- 1992–1993 **Cabrillo Community College (Sequoia, CA)**
 – ASTR 001 (1x) *Introduction to Astronomy*
 – ASTR 010 (1x) *Honors Astronomy*
 – ASTR 100 (1x) *Observational Astronomy Lab*
 – ASTR 200 (1x) *Astro-Photography Lab*
- 1992 **West Valley College (Cupertino, CA)**
 – Summer Youth Astronomy Program (1x)
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SUMMARY OF PUBLICATIONS (NASA/ADS up to August, 2015)

Articles

195	journal and conference publications
73	refereed journal articles
68	first-author publications
20	first-author refereed journal articles
3	journal articles in referee process

Citations

4348	citations to published works
577	maximum citations to a refereed journal article
7	refereed journal articles with more than 100 citations
49	citations to PhD thesis
33	h -index (number of refereed articles with h or more citations)

PROFESSIONAL SERVICE

2014–May	NASA/ <i>HST</i> Extragalactic Proposal Review Panel
2013–Jan	NSF Postdoctoral Fellowship Proposal Review Panel
2012–May	NASA/ <i>HST</i> Extragalactic Proposal Review Panel
2011–pres	Research Mentor for New Mexico Alliance for Minority Participation (undergraduates)
2011–May	NASA/ <i>HST</i> Extragalactic Proposal Review Panel
2010–May	NASA/ <i>HST</i> Extragalactic Proposal Review Panel
2009–Feb	Subaru Telescope Time Allocation Committee
2007–2008	Science Organizing Committee, Galaxy Evolution Meeting at UC Irvine (held Feb 2008)
2006–2007	Research and Career Mentor for McNair Scholars Program (undergraduates)
2006–2007	Gemini Telescope Canadian Time Allocation Committee, external proposal reviewer
2006	Book Reviewer: <i>Life in the Universe</i> , Addison Wesley
2006–Nov	NASA/ <i>FUSE</i> Extragalactic Proposal Review Panel, Chair
2005	Book Reviewer: <i>The Essential Cosmic Perspective</i> , Addison Wesley
2003–Nov	NASA/ <i>FUSE</i> Extragalactic Proposal Review Panel
2000–2002	Hobby Eberly Telescope, Penn State Time Allocation Committee
1998–1999	McDonald Observatory Time Allocation Committee, proposal reviewer
1998–Jan	NSF, Extragalactic Astronomy Division Proposal Review Panel, reviewer
1996–pres	Journal Referee: <i>Nature</i> , <i>ApJ</i> , <i>AJ</i> , <i>A&A</i> , <i>MNRAS</i> (3 to 4 times per year)

DEPT, COLLEGE, & UNIVERSITY COMMITTEES (NMSU)

2012–pres	Graduate Affairs Committee, College of Arts and Sciences, Chair
2010–2011	Instructional Improvement Committee, College of Arts and Sciences, elected member
2009–pres	Promotion and Tenure Committee, Astronomy Department, appointed member
2007–2009	Graduate Curriculum Committee, Astronomy Department, appointed member
2006–2009	Graduate Council, Graduate School, elected member
2006–2009	Instructional Improvement Committee, College of Arts and Sciences, elected member
2005–pres	Graduate Committee (including student admissions), Astronomy Department, Chair (3 yrs)
2004–2007	Research Affairs Committee, College of Arts and Sciences, elected member

SOCIETIES

2003–pres	American Astronomical Society, Historical Astronomy Division, member
1995–pres	Sigma–Xi, Scientific Research Society, elected member (at large)
1990–pres	American Astronomical Society, member
1988–pres	$\Sigma\Pi\Sigma$ Physics Honor Society, elected member
1987–1989	Society of Physics Students, Cal Poly Chapter, President (1998)

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CURRENT RESEARCH GRANTS: \$ 892,189

- 2014–pres National Science Foundation (\$298,386)
(NMSU) *The Circumgalactic Medium: Understanding Observations from Theory*
PI: Churchill
- 2013–pres NASA Space Telescope Science Institute (\$578,053)
(NMSU) *A Breakaway from Incremental Science: Full Characterization of the $z < 1$ CGM*
PI: Churchill; Co-Is: J. Charlton, A. Klypin
- 2013–pres NASA Jet Propulsion Laboratory (\$15,750)
(NMSU) *Keck Telescope Observing Program*
PI: Churchill; Co-Is: J. Charlton, G. Kacprzak

PAST RESEARCH GRANTS: \$ 1,726,257

- 2014–2015 NASA New Mexico Space Grant Consortium (\$52,000)
(NMSU) *Research Enhancement Program*
PI: Churchill
- 2013 Swinburne University of Technology Office of Research (\$6000)
(NMSU) *Faculty Research Visiting Scheme*
PI: Churchill; Co-I: G. Kacprzak
- 2012–2015 Office of Research, Vice President of Research, NMSU (\$45,000),
(NMSU) *Graduate Research Enhancement Grant* (supporting Ms. Nikki Nielsen)
PI: Churchill; Co-Is: N. Nielsen
- 2010–2012 NASA Space Telescope Science Institute (\$119,000)
(NMSU) *Absorption Line Analysis to Interpret and Constrain Cosmological Simulations*
PI: Churchill; Co-Is: A. Klypin, G. Kacprzak, D. Ceverino
- 2010–2012 NASA Space Telescope Science Institute (\$56,000), accompanying 7 cycle–18 HST orbits
(NMSU) *The Relative Kinematics of Galaxy Emission and Multiple Gas Phases in $z = 0.5$ Galaxies*
PI: Churchill; Co-Is: A. Klypin, G. Kacprzak, D. Ceverino
- 2009–2011 NASA Space Telescope Science Institute (\$59,300), accompanying 9 cycle–17 HST orbits
(NMSU) *Detailed Probing of a $\text{Ly}\alpha + \text{Metal}$ Line Absorption Complex Near Two Galaxies at $z = 0.7$*
PI: Churchill; Co-Is: A. Klypin, G. Kacprzak, J. Evans
- 2007–2008 NASA New Mexico Space Grant Consortium (\$43,000)
(NMSU) *Observational Constraints on Galaxy Evolution*
PI: Churchill
- 2005–2006 NASA Space Telescope Science Institute (\$59,500)
(NMSU) *Morphologies and MgII/CIV Absorption in 85 Intermediate Redshift Galaxies*
PI: Churchill; co-Is: G. Kacprzak, C. Steidel
- 2004–2007 NASA Astrobiology (\$158,500)
(NMSU) *The Diffuse Interstellar Bands as Probes of Organic Material in the Universe*
PI: T. Snow; Co-I: Churchill
- 2001–2002 NSF Small Grant for Exploratory Research (\$75,000)
(PSU) *MgII Absorbers at High Redshift Using J-Band High Resolution Spectroscopy on the Hobby-Eberly Telescope*
PI: Churchill; Co-Is: J. Charlton, L. Ramsey
- 2000–2004 NASA Space Telescope Science Institute (\$263,000), accompanying 36 cycle–12 HST orbits
(PSU) *Establishing the Gaseous Phases of Galaxies Following the Epoch of Star Formation*
PI: Churchill
- 1998–2000 NASA Space Telescope Science Institute (\$40,000)
(PSU) *The Neutral and High Ionization Gas in 51 MgII Absorption Systems*
PI: Churchill
- 1997–2002 NASA Long Term Space Astrophysics Program (\$283,000)
(PSU) *Near-IR MgII Absorption Line Survey Using the 8-Meter Hobby Eberly Telescope*
PI: J. Charlton; Co-I: Churchill
- 1997–2000 NSF Extragalactic Division (\$264,000)
(PSU) *Near-IR MgII Absorption Line Survey Using the 8-Meter Hobby Eberly Telescope*
PI: J. Charlton; Co-Is: Churchill, L. Ramsey, D. Schneider
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TALKS/COLLOQUIA (SINCE 2003)

• Invited Colloquia

2012–Mar Massachusetts Institute of Technology (Boston, MA)
2010–Nov University of Texas, El Paso (El Paso, TX)
2008–Apr University of New Mexico (Albuquerque, NM)
2007–Jun Los Alamos National Lab (Los Alamos, NM)
2006–Feb University of New Mexico (Albuquerque, NM)
2004–Feb Carnegie Observatories (Pasadena, CA)
2003–Mar University of Maryland, (College Park, MD)
2003–Mar Notre Dame (Southbend, IN)
2003–Feb San Francisco State University (San Francisco, CA)
2003–Feb New Mexico State University (Las Cruces, NM)
2003–Jan Notre Dame (Southbend, IN)

• Invited Talks

2014–Feb Astronomical Society of Las Cruces, ASLC Lecture Series (Las Cruces, NM)
2011–Jun Meeting of the Rose City Astronomers (Portland, OR)
2008–Aug* The Role of Disk-Halo Interaction in Galaxy Evolution: Outflow vs Infall (Espinho, Portugal)
2008–Feb Gas Physics and Galaxy Evolution (Irvine, CA)
2006–May Galaxies in the Cosmic Web (Las Cruces, NM)
2005–Mar Probing Galaxies Through Quasar Absorption Lines (Shanghai, China)
2003–Jan Aspen Winter Conference on Particle Physics, At the Frontiers of Particle Physics (Aspen, CO)

• Contributed Talks (omitting AAS)

2013–Aug Santa Cruz Galaxy Workshop (Santa Cruz, CA)
2013–Jun The Physical Link Between Galaxies and their Halos (Garching, Germany)
2013–Aug Santa Cruz Galaxy Workshop (Santa Cruz, CA)
2012–Jun The Baryon Cycle (Irvine, CA) [poster talk]
2012–May Gas Flows in Galaxies (Baltimore, MD) [poster talk]
2009–Oct Galaxy Evolution in the Redshift Desert: $z = 1-3$ (Marseille, France)
2007–Oct 23rd New Mexico Symposium (Socorro, NM)
2007–Sep Gas Accretion and Star Formation in Galaxies (Garching, Germany)
2006–Oct 22nd New Mexico Symposium (Socorro, NM)
2005–Oct 21st New Mexico Symposium (Socorro, NM)
2004–Oct 20th New Mexico Symposium (Socorro, NM)
2004–Aug The Environments of Galaxies: from Kiloparsecs to Megaparsecs (Chania, Crete)
2004–Jun Extraplanar Gas (Dwingeloo, Netherlands)
2003–Oct 19th New Mexico Symposium (Socorro, NM)

* did not attend due to surgery

AWARDS, AWARD NOMINATIONS

2006 Outstanding McNair Scholars Mentor, McNair Scholars Program
2006 Best McNair Student Research Project (Claudia Santiago), McNair Scholars Program
2004 Alfred P. Sloan Fellow, nomination
2003 Alfred P. Sloan Fellow, nomination
2000 NASA Hubble Fellowship, alternate list
1999 NASA Hubble Fellowship, alternate list
1993 Outstanding Teaching Assistant, University of California, Santa Cruz
1992–1993 Outstanding Teaching Award, Cabrillo College
1988–1989 Keith Steele Memorial Scholarship, Cal Poly

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PUBLICITY OF RESEARCH

• Magazines (Print and On-Line)

- NMSU Arts and Sciences News Letter: *NMSU Astronomer Leads International Collaborative...*
- NMSU News Center: *NMSU Professor Brings New Meaning to Word “Star”*
- New Scientist: *New Evidence for Extragalactic Life-Forming Matter*
- NMSU Research & Resources: *Probing the Grandeur of Galaxies*
- American Institute of Physics: *Is the Fine Structure Constant Changing?*
- Nature: *Fundamental Constant Swells*
- Nature– Research Highlights: *Inconstant Constant*
- New Scientist: *Light May Have Slowed Down*
- Physical Review Focus: *A Constant that Isn’t Constant*
- Scientific American: *Keck Telescope Reveals Inconsistent Constant*
- Scientific American: *Science and the Citizen*
- Sky & Telescope News: *New Physics from Ancient Quasars*
- SPACE.com: *Speed of Light, Other Constants May Change*
- New Scientist (editorial): *Constant Chaos?*

• Newspaper

- Las Cruces Sun News: *NMSU Professor Brings New Meaning to Word “Star”*
- Las Cruces Bulletin: *NMSU Astronomers at Forefront of Quasar-based Research*
- New York Times: *Cosmic Laws Like Speed of Light Might Be Changing, A Study Finds*
- New York Times Week in Review: *Suddenly, The Cosmos Becomes More Fickle*
- Philadelphia Inquirer: *As Constant as the Stars?*
- Sydney Morning Herald: *Electric Shock for World of Physics*
- USA Today: *Speed of Light May Not have Been Constant After All*
- Washington Post: *Challenge to a “Constant” Shakes Modern Physics*

• Radio/TV Interviews

- ABC: *Latenight* (pre-recorded)
- Canadian Broadcasting Corporation’s (CBC): *As It Happens* (pre-recorded)
- IDEA TV (Brazilian Television): *Science in the News* (pre-recorded)
- NPR: *The Diane Rehm Show* (live)
- NPR: *Science Friday with Ira Flatow* (live)

STUDENTS SUPERVISED/ADVISED

• Ph.D./M.S. Students Graduated (Primary Advisor: 5 Ph.D., 2 M.S.)

- Dr. Nikole Nielson (NMSU) Ph.D. 5/2015 (Postdoctoral Fellow, Swinburne University)
Tracing Galaxy Evolution Through the Circumgalactic Medium
- Dr. Jessica Evans (NMSU) Ph.D. 4/2011 (Business Administration)
Mg II QSO Absorption Line Systems as a Probe of Galaxy Structure and Kinematic Evolution
- Dr. Brandon Lawton (NMSU) Ph.D. 7/2008 (NASA STScI Faculty)
Diffuse Interstellar Bands in DLAs and Starburst Galaxies
- Dr. Glenn Kacprzak (NMSU) Ph.D. 7/2008 (Futures Fellow, Swinburne University of Technology, Australia)
The Morphological, Kinematic, and Halo Gas Properties of Mg II Absorption Selected Galaxies
- Ms. Allison Widhalm (NMSU) M.S. 6/2008 (Data Analyst, NOAO, Chile)
Class Work Masters
- Dr. Don Lubowich (NMSU) Ph.D. 7/2006 (Professor, Hofstra University)
The D/H Ratio in the Galactic Center and Disk
- Ms. Sarah Giandoni (NMSU) M.S. 5/2005 (Data Analyst, NASA White Sands)
Absorption Lines and Galaxies Toward PKS0312–330

• Current Graduate Students (Primary Advisor)

- Ms. Elizabeth Klimek (NMSU, 7th yr), anticipated Ph.D. 2015
- Mr. Nigel Mathes (NMSU, 4th yr), anticipated Ph.D. 2017
- Mr. Jacob Vander Vliet (NMSU, 4th yr), anticipated Ph.D. 2017
- Mr. Gavin Mathes (NMSU, 2nd yr), anticipated Ph.D. 2019

REFEREED JOURNAL PAPERS UNDER REVIEW (as of August 26, 2015)

3. Kacprzak, G. G., Muzahid, S., Churchill, C.W., Charlton, J.C., & Nielsen, N.M. 2015, MNRAS, submitted; *The Azimuthal Dependence of Outflows and Accretion Detected using OVI Absorption*
2. Churchill, C. W., Klimek, E., Medina, A., & Vander Vliet, J. R. ApJ, submitted; *Ionization Modeling Astrophysical Gaseous Structures. I. The Optically Thin Regime*
1. Churchill, C. W., Kacprzak, G. G., Nielsen, N. M., Steidel, C. C., & Murphy, M.T. 2014, ApJ, submitted; *The Highly Structured Anatomy of Gaseous Halos Inferred from Extremely Weak MgII Absorption and Galaxy Orientation*

REFEREED PUBLICATIONS

73. Muzahid, S. Kacprzak, G.G., Churchill, C. W., Charlton, J.C., Nielsen, N.M., Mathes, N.L. & Trujillo-Gomez, S. 2015, ApJ, in press; *An Extreme Metallicity Large-Scale Outflow from a Star Forming Galaxy at $z=0.4$*
72. Churchill, C. W., Vander Vliet, J. R., Trujillo-Gomez, S., Kacprzak, G. G., & Klypin, A. 2014, ApJ, 802, 10; *Direct Insights into Observational Absorption Line Analysis Methods of the Circumgalactic Medium Using Cosmological Simulations*
71. Kacprzak, G. G., Churchill, C.W., Murphy, M.T., & Cooke, J. 2014, MNRAS, 446, 2861; *Probing the Circumgalactic Medium of Active-Galactic Nuclei with Background Quasars*
70. Mathes, N. L., Churchill, C. W., Kacprzak, G. G., Nielsen, N. M., Trujillo-Gomez, S., Charlton, J. C., & Muzahid, S. 2014, ApJ, 792, 128; *Halo Mass Dependence of HI and OVI Absorption: Evidence for Differential Kinematics*
69. Kacprzak, G. G., Martin, C., Bouché, N., Churchill, C. W., Cooke, J., LeReun, A., Schroetter, I., Ho, S. & Klimek, E. 2014, ApJ, 792, L12; *New Perspective on Galaxy Outflows From the First Detection of Both Intrinsic and Traverse Metal-Line Absorption*
68. Ceverino, D., Klypin, A., Klimek, E., Trujillo-Gomez, S., Churchill, C. W., & Primack, J. 2013, MNRAS, 442, 1545; *Radiative Feedback and the Low Efficiency of Galaxy Formation in Low-Mass Halos at High Redshift*
67. Bordoloi, R., Lilly, S. J., Kacprzak, G. G. & Churchill, C.W. 2014, ApJ, 784, 108; *Modeling the Distribution of MgII Absorbers Around Galaxies Using Background Galaxies and Quasars*
66. Churchill, C. W., Trujillo-Gomez, S., Nielsen, N. M., & Kacprzak, G. G., 2013, ApJ, 779, 87; *MAGiCAT III. Interpreting the Self-Similarity of the Circumgalactic Medium with Virial Mass using MgII Absorption*
65. Kacprzak, G. G., Cooke, J., Churchill, C. W., Ryan-Weber, E. V., & Nielsen, N. M., 2013, ApJ, 777, L11; *The Smooth MgII Gas Distribution Through the Interstellar/Extra-Planar/Halo Interface*
64. Nielsen, N. M., Churchill, C. W., & Kacprzak, G. G. 2012, ApJ, 776, 115; *MAGiCAT II. General Characteristics of the MgII Absorbing Circumgalactic Medium*
63. Nielsen, N. M., Churchill, C. W., Kacprzak, G. G. & Murphy, M. T. 2013, ApJ, 776, 114; *it MAGiCAT I. The MgII Absorber-Galaxy Catalog*
62. Evans, J. L., Churchill, C. W., Murphy, M. T., Nielsen, N. M., & Klimek, E. 2013, ApJ, 768, 3; *The Redshift Distribution of Intervening Weak MgII Quasar Absorbers and a Curious Dependence on Quasar Luminosity*
61. Churchill, C. W., Nielsen, N. M., Kacprzak, G. G., & Trujillo-Gomez, S. 2013, ApJ, 763, L42; *The Self-Similarity of the Circumgalactic Medium with Galaxy Virial Mass: Implications for Cold-Mode Accretion*
60. Kacprzak, G. G., Churchill, C. W., & Nielsen, N. M., 2012, ApJ, 760, L7; *Tracing Outflows and Accretion: A Bimodal Azimuthal Dependence of MgII Absorption*
59. Churchill, C. W., Kacprzak, G. G., Steidel, C. C., Spitler, L. R., Holtzman, J. A., Nielsen, N. M., & Trujillo-Gomez, S. 2012, ApJ, 760, 68; *Quenched Accretion of a Large Scale Metal-Poor Filament due to Virial Shocking in the Halo of a Massive $z = 0.7$ Galaxy*

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58. Kacprzak, G. G., [Churchill](#), C. W., Steidel, C. C., Spitler, L. R., & Holtzman, J. A. 2012, MNRAS, 427, 3029; *Discovery of Multi-Phase Cold Accretion in a Massive Galaxy at $z = 0.7$*
57. Bouché, N., Hohensee, W., Vargas, R., Kacprzak, G. G., Martin, C. L., Cooke, J., Kacprzak, G. G., & [Churchill](#), C. W. 2012, MNRAS, 426, 801; *Physical Properties of Galactic Winds Using Background Quasars*
56. Kacprzak, G. G., & [Churchill](#), C. W. 2011, ApJ, 743, L34; *The HI Mass Density in Galactic Halos, Winds, and Cold Accretion as Traced by MgII Absorption*
55. Kacprzak, G. G., [Churchill](#), C. W., Evans, J. L., Murphy, M. T., & Steidel, C. C. 2011, MNRAS, 416, 3118; *Morphological Properties of $z \sim 0.5$ Absorption-selected Galaxies: The Role of Inclination*
54. Kacprzak, G. G., [Churchill](#), C. W., Barton, E. J., & Cooke, J. 2011, ApJ, 733, 105; *Halo Gas and Galaxy Disk Kinematics of a Volume-Limited Sample of MgII Absorption-Selected Galaxies at $z \sim 0.1$*
53. Kacprzak, G. G., Murphy, M. T., & [Churchill](#), C. W. 2010, MNRAS, 406, 445; *Galaxy Group at $z = 0.3$ Associated with the Damped Lyman Alpha System Towards Quasar Q1127-145*
52. Kacprzak, G. G., [Churchill](#), C. W., Ceverino, D., Steidel, C. C., Klypin, A., & Murphy, M. T. 2010, ApJ, 711, 533; *Halo Gas and Galaxy Disk Kinematics Derived from Observations and Λ CDM Simulations of MgII Absorption Selected Galaxies at Intermediate Redshift*
51. Lawton, B., [Churchill](#), C. W., York, B. A., Ellison, S. L., Snow, T. P., Johnson, R. A., & Ryan, S. G. 2007, AJ, 136, 994; *Diffuse Interstellar Bands in 7 Intermediate Redshift DLAs*
50. Kacprzak, G. G., [Churchill](#), C. W., Steidel, C. C., Murphy, M. T., 2008, AJ, 135, 922; *Halo Gas Cross Sections And Covering Fractions of MgII Absorption Selected Galaxies*
49. Mshar, A. C., Charlton, J. C., Lynch, R. S., [Churchill](#), C. W., & Kim, T.-S. 2007, ApJ, 669, 135
The Kinematic Evolution of Strong MgII Absorbers
48. Kacprzak, G. G., [Churchill](#), C. W., Steidel, C. C., Murphy, M. T., Evans, J. E. 2007, ApJ, 662, 909; *A Correlation Between Galaxy Morphology and MgII Halo Absorption Strength*
47. [Churchill](#), C. W., Kacprzak, G. G., Steidel, C. C., & Evans, J. L. 2007, ApJ, 661, 714; *On the Heterogeneity of Metal-Line and Ly-alpha Absorption in Galaxy Halos at $z=0.7$*
46. York, B. A., Ellison, S. E., Lawton, B., [Churchill](#), C. W., Snow, T. P., Johnson, R., & Ryan, S. G. 2006, ApJ, 647, L29; *Detection of the 5780 Diffuse Interstellar Band in a $z=0.5$ Damped Ly-alpha System*
45. Kondo, S., Kobayashi, N., Minowa, Y., Tsijimoto, T., [Churchill](#), C. W., & 13 co-authors 2006, ApJ, 643, 667; *First Detection of NaI D lines in High-Redshift Damped Lyman-alpha Systems*
44. Masiero, J. R., Charlton, J. C., Ding, J., [Churchill](#), C. W., & Kacprzak, G. G. 2005, ApJ, 623, 57; *Five Absorption Line Systems Along the Line of Sight to PG 0117+213*
43. Ding, J., Charlton, J. C., [Churchill](#), C. W. 2005, ApJ, 621, 615; *The Absorption Signature of Six MgII-selected Systems over $0.5 \leq z \leq 0.9$*
42. Ellison, S. L., [Churchill](#), C. W., Rix, S. A., & Pettini, M. 2004, ApJ, 615, 118; *The Number Density of Intermediate Redshift MgII Systems from CORALS: Implications for Damped Lyman Alpha Systems at $z < 1.7$*
41. Zonak, S. G., Charlton, J. C., Ding, J., [Churchill](#), C. W., & Palma, C. 2003, ApJ, 606, 196
The $z = 1.04$ Multi-cloud Weak Absorber Toward PG 1634+706
40. [Churchill](#), C. W., Mellon, R. R., Charlton, J. C., & Vogt, S. S. 2003, ApJ, 593, 203; *The Spatial, Kinematic, Chemical, and Ionization Conditions of the $z = 1.39$ Damped Lyman-alpha Absorber in Q0957+561A,B*
39. Ding, J., [Churchill](#), C. W., Charlton, J. C., & Palma, C. 2003, ApJ, 590, 746; *The Multi-phase Absorption Systems Toward PG 1206+459*
38. Charlton, J. C., Ding, J., Zonak, S. G., [Churchill](#), C. W., & Bond, N. A. 2003, ApJ, 589, 111; *High Resolution STIS/HST and HIRES/Keck Spectra of Three Weak MgII Absorbers Toward PG 1634+706*

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37. Ding, J. Charlton, J. C., Zonak, S. G., & Churchill, C. W. 2003, ApJ, 587, 551; *The Quadruple Phase Strong MgII Absorber at $z = 0.99$ Toward PG 1634+706*
36. Churchill, C. W., Vogt, S. S., & Charlton, J. C. 2003, AJ, 125, 98; *The Physical Conditions of Intermediate Redshift MgII Absorbing Clouds from Voigt Profile Analysis*
35. Steidel, C. C., Kollmeier, J. A., Shapely, A. E., Churchill, C. W., Dickinson, M., & Pettini, M. 2002, ApJ, 570, 526 ; *The Kinematic Connection between QSO–Absorbing Gas and Galaxies at Intermediate Redshift*
34. Rigby, J. R., Charlton, J. C., & Churchill, C. W. 2002, ApJ, 565, 743; *The Population of Weak MgII Absorbers II. The Properties of Single Cloud Systems*
33. Bond, N. A., Churchill, C. W., Charlton, J. C., & Vogt, S. S. 2001, ApJ, 562, 641; *High Redshift Superwinds as the Source of the Strongest MgII Absorbers: A Feasibility Analysis*
32. Murphy, M. T., Webb, J. K., Flambaum, V. V., Churchill, C. W., & Prochaska, J. X. 2001, MNRAS, 327, 1223 ; *Possible Evidence for a Variable Fine Structure Constant from QSO Absorber Lines: Systematic Errors*
31. Murphy, M. T., Webb, J. K., Flambaum, V. V., Dzuba, V. A., Churchill, C. W., Prochaska, J. X., Barrow, J. D., & Wolfe, A. M. 2001, MNRAS, 327, 1208 ; *Possible Evidence for a Variable Fine Structure Constant from QSO Absorber Lines: Motivations, Analysis, and Results*
30. Churchill, C. W. 2001, ApJ, 560, 92; *MgII Absorber Number Density at $z \simeq 0.05$: Implications for Ω_{DLA} Evolution*
29. Webb, J. K., Murphy, M. T., Flambaum, V. V., Dzuba, V. A., Barrow, J. D., Churchill, C. W., Prochaska, J. X., & Wolfe, A. M. 2001, Phys. Rev. Lett, 87; *Further Evidence for Cosmological Evolution of the Fine Structure Constant*
28. Bond, N. A., Churchill, C. W., Charlton, J. C. 2001, ApJ, 557, 761; *Evidence for Expanding Superbubbles in a Galaxy at $z = 0.7443$*
27. Churchill, C. W., & Vogt, S. S., 2000, AJ, 122, 679
The Kinematics of Intermediate Redshift MgII Absorbers
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ABSTRACTS

Plus $\simeq$ 100 first-author and contributing-author abstracts (1992–2014) published in the *Bulletin of the American Astronomical Society*: The majority involved work performed with graduate and undergraduate students for presentations at Meetings of the American Astronomical Society.