Curriculum Vitae - Bastiaan P. Wakker

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DEGREES

April 1990	Ph.D. (astronomy) Rijks Universiteit Groningen Advisor: Hugo van Woerden
December 1983	Drs. (Masters degree eqv.) University of Amsterdam (cum laude) Advisor: Huib Henrichs
February 1981	Kandidaatsexamen (B.S. eqv.) University of Amsterdam (cum laude)

POSITIONS

jul 2006 – present	**Senior Scientist, University of Wisconsin, Madison** 100% self-supported (ADP, HST, FUSE, NSF)
spring 2003	**Lecturer, University of Wisconsin, Madison**
may 1998 – jun 2006	**Associate Scientist, University of Wisconsin, Madison** supervisor: Blair Savage 100% self-supported (LTSA, ADP, HST, FUSE)
spring 1997	**Lecturer, University of Wisconsin, Madison**
mar 1995 – apr 1998	**Assistant Scientist, University of Wisconsin, Madison** supervisor: Blair Savage
sep 1993 – feb 1995	**Astronomy postdoc and Research Programmer,** University of Illinois at Urbana-Champaign supervisor: Richard Crutcher
feb 1990 – aug 1993	**Postdoctoral research associate,** University of Illinois at Urbana-Champaign supervisor: Richard Crutcher

jan 1984 – jan 1990	**Graduate student,** Rijks Universiteit Groningen, The Netherlands, Thesis title: *High-velocity clouds*
jun 1981 – aug 1981	**Summer student**, CERN, Geneva

SCIENCE TEAMS

Co-I for the "Molecular Hydrogen Explorer (ESA 2007)"
Co-I for the "IGM Galaxy Emission Explorer (NASA Explorer 2008)"
Co-I on the ASKAP WALLABY Science Team – Lead on SWG7 (IGM)
Co-I on the ASKAP GASKAP Science Team
Co-I for CAELUM, the "Circumgalactic Absorption/Emission Line Ultraviolet Mapper" (NASA Explorer 2011)

RESEARCH INTERESTS

The observational study of gas in the halos of galaxies and beyond, and how this gas interacts with and drives the evolution of galaxies. This includes (a) understanding the motions, abundances and physical conditions in the Galactic high-velocity clouds and how they trace the Galactic Fountain, tidal streams and infall, and (b) understanding the properties of the intergalactic medium, especially in relation to the galaxies. Such studies are done using data from radio interferometers, radio single-dish telescopes, optical spectrographs, and UV spectrographs.

PROFESSIONAL ORGANIZATIONS

American Astronomical Society
International Astronomical Union

SERVICE

Review panels	NASA FUSE, 2000 NASA ground-based astronomy, 2001 NASA LTSA/ADP, 2004 NASA postdoctoral program, 2005 NASA ADP, 2008 HST Cycle 19, 2011
Refereeing	>50 papers for ApJ, A&A, MNRAS, PASP
Other	Organizing colloquium fall 2004, spring 2005, fall 2005 Coordinating ISM lunch 2004/2005

TEACHING EXPERIENCE

Courses	Astronomy 101 spring 1997
	Astronomy 101 spring 2002
Undergraduate students advised in Groningen	Roelf Jan Habing
	Roelof de Jong
	Bart Vijfschaft; publication #5
	Martin Vogelaar; publication #14
Undergraduate students advised in Madison	Peter Martinson
	Tom Stansbury
	Jill Meyer
	Genevieve de Messieres (REU student)
	Caralyn Flack (REU student); conference pub. #57
	Isobel Ojalvo (REU student); conference pub. #68
	Jonathan Brown; publication #80
	Matthew Miller (REU student)
Graduate students (in advisory role)	Andrew Fox; publication #47, 54, 56, 57, 61, 75
	Kat Barger
Postdocs	Nicolas Lehner; publication #53, 55, 59, 62
	Anand Narayanan; publication #72, 74, 78, 79
	Audra Hernandez

CURRENT COLLABORATORS

Blair Savage (University of Wisconsin)
Andrew Fox (IAP Paris)
Don York (University of Chicago)
Tim Beers (Michigan State University)
Ronald Wilhelm (Texas Tech University)
Chris Howk (Notre Dame University)
Todd Tripp (University of Massachussetts)
Philipp Richter (University of Bonn)
Supriya Chakrabarti (Boston University)
Bob Benjamin (University of Wisconsin-Whitewater)
Baerbel Koribalski (CSIRO)
Jay Lockman (NRAO)
Hugo van Woerden (Rijks Universiteit Groningen)

INSTRUMENTS USED

X-ray	ROSAT – Röntgen Satellite
UV spectroscopy	IUE – International Ultraviolet Explorer
	HST – Hubble Space Telescope
	FUSE – Far UltraViolet Spectroscopic Explorer
optical	Isaac Newton Telescope, La Palma
	William Herschel Telescope, La Palma
	WIYN – Kitt Peak
	VLT – ESO, Chile
	Keck – Hawaii
IR	IRAS – Infra Red Astronomical Satellite
radio (21-cm)	WSRT – Westerbork Synthesis Radio Telescope
	Dwingeloo
	Effelsberg
	ASKAP
radio (mm)	BIMA – Berkely Illinois Maryland Association

PROGRAMMING EXPERIENCE

Languages: Fortran, C, idl

I wrote programs in and am fluent in fortran, C, idl and linux, contributing many programs to analyze 21-cm and mm interferometry data to the GIPSY and MIRIAD systems. I also developed mapping software, software to correlate catalogues, and a package to analyze UV and optical spectra.

SPECIAL ITEMS OF NOTE

Annual Reviews article, 1997
Scientific American article, January 2004
"High-Velocity Clouds" monograph, Kluwer, 2004
cover images for Astronomical Journal, March 1994, October 2003

GRANTS

Feb 1993	HST Cycle 3 $55,425	The distance of high-velocity clouds
Aug 1995	HST Cycle 5 $39,208	The hot gaseous halo of the LMC
Jun 1996	HST Cycle 6 $30,394	The metallicity of high-velocity cloud complex C
Jul 1998	HST Cycle 7 $42,000	Interfaces between hot and cold gas: the superbubble N51D in the LMC
May 1999	LTSA $60,000	A comprehensive study of the structuring of the ISM by massive stars (full grant: $300,000)
Feb 1999	HST Cycle 8 $73,987	A search for intergalactic stars in the Local Group
Jun 1999	HST Cycle 8 $68,312	The metallicity and dust content of HVC complex C
Aug 1999	FUSE Cycle 1 $54,100	10^5 K gas in the halo of the Large Magellanic Cloud
Aug 1999	FUSE Cycle 1 $16,360	High-velocity clouds - origin and environment
Aug 1999	FUSE Cycle 1 $56,200	Observational constraints for the Galactic Fountain
Dec 1999	LTSA $525,517	The origins of galactic halo gas: accretion and fountain flows
Nov 2001	FUSE Cycle 3 $43,150	A search for O VI emission from high-velocity clouds
Nov 2001	FUSE Cycle 3 $41,494	Molecular gas in the disk-halo interface
Jan 2003	FUSE Cycle 4 $63,000	Intergalactic O VI absorption at redshift <0.004
Jan 2003	FUSE Cycle 4 $34,000	Molecular hydrogen in the Lower Galactic Halo
Jan 2003	FUSE Cycle 4 $47,200	O VI and C IV emission in the "Local Interstellar Chimney"
Apr 2003	HST Cycle 12 $72,976	Intergalactic O VI absorption at redshift <0.004
Jan 2004	ADP $159,017	Abundances and physical conditions in the Galactic Halo

GRANTS - continued

May 2006	FUSE Cycle 6 $39,199	Detecting baryons outside galaxies via O VI absorption
Jul 2006	HST Cycle 15 $84,149	Characterizing Lyman Spitzer's Galactic corona
Aug 2006	NSF $217,263	Distances to high-velocity clouds
Aug 2006	FUSE Cycle 6 $15,000	Metal abundances in HVC complex A
Apr 2007	ADP $137,049	O VI in and near the Milky Way
Jul 2009	NSF $397,211	Distances to high-velocity clouds
May 2010	ATP $179,219	The kinematics of the interstellar disk-halo interface
Jun 2010	HST Cycle 18 $165,376	Measuring gas flow rates in the Milky Way
Jun 2010	HST Cycle 18 $150,126	Mapping a nearby galaxy filament
Sep 2010	ADP $166,274	Metallicities of high-velocity clouds
Aug 2011	NSF $444,906	The relationship between nearby galaxies and intergalactic absorbers
Sep 2011	HST Cycle 19 $75,529	Ionization in the Magellanic Stream: as case study of Galactic accretion
Sep 2011	HST Cycle 19 $15,015	The state of high-ionization gas in 11 intermediate redshift galaxies and their

INVITED TALKS

1. IAU Symposium 144, "The Interstellar Disk-Halo Connection"
   July 1990, Leiden, The Netherlands
   High-velocity clouds

2. IAU Symposium 190, "New views of the Magellanic Clouds"
   July 1998, Victoria, Canada
   Hot gas in the LMC halo

3. Stromlo Workshop on High-Velocity Clouds
   August 1998, Canberra, Australia
   Summary of recent progress in understanding HVCs

4. "Looking ahead in wonder", A symposium honoring Jan Oort"
   April 2000, Leiden, The Netherlands
   Reviewing the high-velocity clouds

5. Ringberg workshop, "The lowest mass galaxies and dark matter"
   July 2001, Ringberg Castle, Germany
   The HVCs: Local Group objects or not?

6. JENAM 2002, "From observations to self-consistent modeling of the ISM in galaxies"
   (SOC member)
   September 2002, Porto, Portugal
   Recent developments concerning high-velocity clouds

7. IAU Symposium 217, "Recycling Intergalactic and Interstellar Matter"
   July 2003, Sydney, Australia
   High-velocity clouds and the Local Group

8. Extraplanar gas
   June 2004, Dwingeloo, The Netherlands
   The FUSE survey of O *VI in and near the Milky Way*

9. AAS topical session "Warm-hot gas in and around disk galaxies",
   June 2006, Calgary, Canada
   O *VI view of the Galactic corona*

10. High-velocity Clouds and the Origin of Neutral Gas in Nearby Galaxies (SOC member)
    October 2006, Groningen, The Netherlands,
    Distances to high-velocity clouds

11. H I survival through cosmic times
    June 2007, Spineto, Italy
    Hot and cold gas around the Milky Way and nearby galaxies

12. Outflow vs Infall? (SOC member)
    August 2008, Espinho, Portugal
    Hot and cold gas around the Milky Way and nearby galaxies

13. Missing Baryons Conference
    November 2009, Sydney, Australia
    Gas around galaxies - HVCs and the Lyman alpha forest

PUBLICATIONS IN REFEREED JOURNALS

1. Wakker B.P., Boulanger F., 1986, A&A 170, 84
   "A search for dust in high-velocity clouds"
2. Wakker B.P., Schwarz U.J., 1988, A&A 200, 312
   "The Multi-Resolution Clean and its application to the short-spacing problem in interferometry"
3. Hulsbosch A.N.M., Wakker B.P., 1988, A&AS 75, 191
   "A deep, nearly complete, survey of northern high-velocity clouds"
4. Wakker B.P., Broeils A.H., Sancisi R., Tilanus R.P.J., 1989, A&A 226, 57
   "A search for high-velocity H I in nearby face-on spiral galaxies"
5. Wakker B.P., Vijfschaft B., Schwarz U.J., 1991, A&A 249, 233
   "The spin temperature of HVC 131+1−200"
6. Wakker B.P., Schwarz U.J., 1991, A&A 250, 484
   "Westerbork observations of high-velocity clouds; Discussion"
7. Wakker B.P., 1991, A&A 250, 499
   "Distribution and origin of high-velocity clouds; II Statistical analysis of the whole sky survey"
8. Wakker B.P., van Woerden H., 1991, A&A 250, 509
   "Distribution and origin of high-velocity clouds; III Clouds, complexes and populations"
9. Wakker B.P., 1991, A&AS 90, 495
   "Westerbork observations of high-velocity clouds; The data"
10. Prusti T., Clark F.O., Laureijs R.J., Wakker B.P., Wesselius P.R., HVC:8 Tech:1 Oth:1 1992, A&A 259, 537
    "An IRAS Study of Pre-Main Sequence Stars in B209"
11. Chu Y.-H, MacLow M.-M, García-Segura G., Wakker B.P., Kennicutt R.C., 1993, ApJ 414, 213
    "Hidden supernova remnants in the LMC H II complex N 44"
12. de Boer K.S., Altan A.Z., Bomans D.J., Lilienthal D., Moehler S., van HVC:9 LMC:1 Tech:1 Oth:1 Woerden H., Wakker B.P., Bregman J.N., 1993, A&A 286, 925
    "The distance to the complex C of high-velocity halo clouds"
13. Chu Y.-H., Wakker B.P., MacLow M.-M., García-Segura G., 1994, AJ 108, 1696
    "Ultra-violet interstellar absorption lines in the LMC"
14. Vogelaar M.G.R., Wakker B.P., 1994, A&A 291, 557
    "The fractal structure of interstellar clouds"
15. Wakker B.P., Adler D.S., 1995, AJ 109, 134
    "A CO map of the inner spiral arms of NGC 628"
16. Schwarz U.J., Wakker B.P., van Woerden H., 1995, A&A 302, 364
    "Distance and metallicity limits of high-velocity clouds"
17. Welch W.J., Thornton D.D., Plambeck R.L., Wright M.C.H., Lugten J., Urry L., Fleming M., Hoffman W., Hudson J., Lum W.T., Forster J.R., Thatte N., Zhang X., Zivanovic S., Snyder L., Crutcher R., Lo K.Y., Wakker B., Stupar M., Miao Y., Rao R., Wan K., Dickel H.R., Blitz L., Vogel S.N., Mundy L., Erickson W., Teuben P.J., Morgan J., Helfer T., Looney L., De Geus E., Grossman A., Howe J.E., Pound M., Regan M., 1996, PASP 108, 93

"The Berkeley-Illinois-Maryland-Association Millimeter Array"

18. Wakker B.P., van Woerden H., Schwarz U.J., Peletier R.F., Douglas N., 1996, A&A, 306, L25
"The Ca^{+} abundance of HVC complex C"
19. Wakker B.P., Howk C., van Woerden H., Schwarz U.J., Beers T.C., Wilhelm R., Kalberla P., Danly L., 1996, ApJ 473, 834
"The distance to two hydrogen clouds: the high-velocity complex A and the Low-Latitude Intermediate-Velocity cloud"
20. Wakker B.P., van Woerden H., 1997, Annual Review of Astronomy & Astrophysics 35, 217
"High-velocity clouds"
21. Wakker B.P., Murphy E., van Woerden H., Dame T., 1997, ApJ, 488, 216
"A sensitive search for molecular gas in high-velocity clouds"
22. Wakker B.P., van Woerden H., de Boer K.S., Kalberla P.M.W, 1998, ApJ, 493, 762
"A lower limit to the distance of HVC complex H"
23. MacLow M.-M., Chang T.H., Chu Y.-H., Points S.D., Smith R.C., Wakker B.P., 1998, ApJ, 493, 260,
"X-rays from superbubbles in the Large Magellanic Cloud V: The H II complex N 11"
24. Lu L., Savage B.D., Sembach K.R., Wakker B.P., Sargent W.W.L., Oosterloo T.A., 1998, AJ, 115, 162
"The metallicity and dust content of HVC 287.5+22.5+24-: evidence for a Magellanic Clouds origin"
25. Wakker B.P., Howk J.C., Chu Y.-H., Bomans D., Points S.D., 1998, ApJ, 499, L87
"Coronal C^{+3} ion the Large Magellanic Cloud: evidence for a hot halo"
26. van Woerden H., Schwarz U.J., Peletier R., Wakker B.P., Kalberla P.M.W., 1999, Nature, 400, 138
"A confirmed location in the Galactic Halo for the high-velocity cloud "chain A"
27. Wakker B.P., Howk J.C., Savage B.D., van Woerden H., Tufte S.R., Schwarz U.J., Benjamin R., Reynolds R.J., Peletier R.F., Kalberla P.M.W., 1999, Nature, 400, 388
"Accretion of low-metallicity gas by the Milky Way"
28. Murphy E.M., Sembach K.R., Gibson B.K., Shull J.M., Savage B.D., Roth K.C., Moos H.W., Green J.C., York D.G., Wakker B.P., 2000, ApJ 538, L35,
"FUSE spectroscopy of high-velocity cloud complex C"
29. Savage B.D., Wakker B.P., Jannuzi B.T., Bahcall J.N., Bergeron J., Boksenberg A., Hartig G.F., Kirhakos S., Murphy E.M., Sargent W.L.W., Schneider D.P., Turnshek D., Wolfe A.M., 2000, ApJS, 129, 563
"The Hubble Space Telescope quasar absorption line Key project XV. Milky Way absorption lines"
30. Wakker B.P., Mathis J.S., 2000, ApJL, 544, L107
"Dependence of gas phase abundances in the ISM on column density"
31. Richter P., Savage B.D., Wakker B.P., Sembach K.R., Kalberla P.M.W., 2001, ApJ, 549, 281
"The FUSE spectrum of PG0804+761: a study of atomic and molecular gas in the lower galactic halo and beyond"

32. Jaxon E.G., Guerrero M.A., Howk J.C., Chu Y.-H., Wakker B.P., 2001, PASP, 113, 1130
"Spectroscopic classification of 42 LMC OB stars: selection of probes for the hot gaseous halo of the LMC"
33. Richter P., Sembach K.R., Wakker B.P., Savage B.D., Tripp T.M., Murphy E.M., Kalberla P.M.W., Jenkins E.B., 2001, ApJ, 559, 318
"The diversity of high- and intermediate-velocity clouds: complex C vs IV Arch"
34. Richter P., Sembach K.R., Wakker B.P., Savage B.D., 2001, ApJ, 562, L181
"Molecular hydrogen in high-velocity clouds"
35. Wakker B.P., 2001, ApJS, 136, 463
"Distances and metallicities of high- and intermediate-velocity clouds"
36. Wakker B.P., Kalberla P.M.W., van Woerden H., de Boer K.S., Putman M.E., 2001, ApJS, 136, 537
"HI spectra and column densities toward HVC and IVC probes"
37. Wakker B.P., Oosterloo T.A., Putman M.E., 2002, AJ, 123, 1953
"HI fine structure in HVC 287+23+240 (WW187)"
38. Crawford L.A., Lallement R., Price R.J., Sfeir D.M., Wakker B.P., Welsh B.Y., 2002, MNRAS, 337, 730
'High-resolution observations of interstellar Na Iand Ca IItowards the southern opening of the "Local Interstellar Chimney": probing the disk-halo connection"
39. Bluhm H., de Boer K.S., Marggraf O., Richter P., Wakker B.P., 2003, A&Ap, 398, 983
"Interstellar H_2 in M33 detected with FUSE"
40. Richter P., Wakker B.P., Savage B.D., Sembach K.R., 2003, ApJ, 586, 230
"A Far Ultraviolet Spectroscopic Explorer survey of molecular hydrogen in intermediate-velocity clouds in the Milky Way halo"
41. Wakker B.P., Savage B.D., Sembach K.R., Richter P., Meade M., Jenkins E.B., Shull J.M., Ake T.B., Blair W.P., Dixon W.V., Friedman S.D., Green, R.F., Kruk J.W., Moos W.H., Murphy E.M., Oegerle W.R., Sahnow D.J., Sonneborn G., Wilkinson E., York D.G., 2003, ApJS 146, 1
"The FUSE survey of O VI absorption in and near the Galaxy"
42. Savage B.D., Sembach K.R., Wakker B.P., Richter P., Meade M., Jenkins E.B., Shull J.M., Sonneborn G., Moos H.W., 2003, ApJS, 146, 125
"Distribution and kinematics of O VI in the Milky Way halo"
43. Sembach K.R., Wakker B.P., Savage B.D., Richter P., Meade M., Jenkins E.B., Shull J.M., Sonneborn G., Moos H.W., 2003, ApJS 146, 165
"Highly-ionized high-velocity gas in the vicinity of the Milky Way"
44. Tripp T.M., Wakker B.P., Jenkins E.B., Bowers C.W., Danks A.C., Green R.F., Heap S.R., Joseph C.L., Kaiser M.E., Linsky J.L., Woodgate B.E., 2003, AJ, 125, 3122
"Complex C: A low-metallicity high-velocity cloud plunging into the Milky Way"
45. Wakker B.P., Richter P., 2004, Scientific American, 290, 28
"The growing, breathing galaxy"
46. Pisano D.J., Wakker B.P., Wilcots E.M., Fabian D., 2004, AJ, 127, 199
"Searching for the intra-group medium in loose groups of galaxies"
47. Fox A.J., Savage B.D., Wakker B.P., Richter P., Sembach K.R., Tripp T.M., 2004, ApJ, 602, 738

"Highly-ionized gas surrounding high-velocity cloud complex C"
48. Sembach K.R., Wakker B.P., Tripp T.M., Richter P., Kruk J.W., Blair W.P., Moos H.W., Savage B.D., Shull J.M., York D.G., Sonneborn G., Hébrard G., Ferlet R., Vidal-Madjar A., Friedman S., Jenkins E.B., 2004, ApJS, 150, 387
"The deuterium to hydrogen ratio in a low-metallicity cloud falling onto the Milky Way"
49. Wakker B.P., de Boer K.S., van Woerden H., 2004, in "High velocity clouds", eds. H. van Woerden, B.P. Wakker, U.J. Schwarz, K.S. de Boer, Kluwer Acad. Press, p1,
"History of HVC research - an overview"
50. Wakker B.P., 2004, in "High velocity clouds", eds. H. van Woerden, B.P. Wakker, U.J. Schwarz, K.S. de Boer, Kluwer Acad. Press, p26,
"HVC/IVC maps and HVC distribution functions"
51. Schwarz U.J., Wakker B.P., 2004, in "High velocity clouds", eds. H. van Woerden, B.P. Wakker, U.J. Schwarz, K.S. de Boer, Kluwer Acad. Press, p145,
"The large and small-scale structure of HVCs"
52. van Woerden H., Wakker B.P., 2004, in "High velocity clouds", eds. H. van Woerden, B.P. Wakker, U.J. Schwarz, K.S. de Boer, Kluwer Acad. Press, p195,
"Distances and metallicities of HVCs"
53. Lehner N., Wakker B.P., Savage B.D., 2004, ApJ 615, 767
"C II radiative cooling of the diffuse gas in the Milky Way"
54. Savage B.D., Wakker B.P., Fox A.J., Sembach K.R., 2005, ApJ, 619 863,
"FUSE observations of interstellar and intergalactic absorption toward the X-ray-bright BL Lacertae object Markarian 421"
55. Savage B.D., Lehner N., Wakker B.P., Sembach K.R., Tripp T.M., 2005, ApJ, 626, 776
"Dectection of NeVIII in the low-redshift warm-hot intergalactic medium"
56. Fox A.J., Wakker B.P., Savage B.D., Tripp T.M., Sembach K.R., Bland-Hawthorn J., 2005, ApJ, 630, 332
"Multi-phase high-velocity clouds toward HE 0226−4110 and PG 0953+414"
57. Fox A.J., Savage B.D., Wakker B.P., 2005, AJ, 130, 2418,
"Measurement of noisy absorption lines using the apparent optical depth technique"
58. Wakker B.P., 2006, ApJS, 163, 282
"The FUSE survey of high-latitude Galactic molecular hydrogen"
59. Lehner N., Savage B.D., Wakker B.P., Sembach K.R., Tripp T.M., 2006, ApJS, 164, 1
"Low redshift intergalactic absorption lines in the spectrum of HE0226-4110"
60. Ganguly R., Sembach K.R., Tripp T.M., Savage B.D., Wakker B.P., 2006, ApJ, 645, 868
"High-resolution absorption spectroscopy of multi-phase, high- metallicity gas associated with the luminous quasar HE 0226−4110"
61. 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 high-velocity clouds"
62. Lehner N., Savage B.D., Richter P., Sembach K.R., Tripp T.M., Wakker B.P., 2007, ApJ, 658, 680 (Errata: 2007, ApJ 661, 1347; 2008, ApJ, 674, 613)
"Physical properties, baryon content and evolution of the Lyα forest: New insights from high-resolution observations at z<0.4"
63. Savage B.D., Lehner N., Fox A.J., Wakker B.P., Sembach K.R., 2007, ApJ, 659, 1222

"The abundance of deuterium in the warm neutral medium of the lower galactic halo"

64. Wakker B.P., York D.G., Howk J.C., Barentine J.C., Wilhelm R., Peletier R.F., van Woerden H., Beers T.C., Ivezić Z, Richter P., Schwarz U.J., 2007, ApJL, 670, L113
"Distances to galactic high-velocity clouds. Complex C"
65. Wakker B.P., York D.G., Wilhelm R., Barentine J.C., Richter P., Beers T.C., Ivezíc Z, Howk J.C., 2008, ApJ, 672, 298
"Distances to galactic high-velocity clouds. I. Cohen Stream, complex GCP, cloud g1"
66. Miller E.D., Bregman J.N., Wakker B.P., 2009, ApJ, 692, 470
"High-velocity clouds in the nearby spiral galaxy M 83"
67. Misawa T., Charlton J.C., Kolbulnicky H.A., Wakker B.P., Bland-Hawthorn J., 2009, ApJ, 695, 1382
"The Magellanic Bridge as a DLA system: Physcial properties of cold gas toward PKS0312−770"
68. Boulanger F., et 77 al., including Wakker (#7), 2008, Experimental Astronomy, 23, 277
"The molecular hydrogen explorer H2EX"
69. Wakker B.P., Savage B.D., 2009, ApJS, 182, 378
"The relationship between intergalactic H I/O VI and nearby (z<0.017) galaxies"
70. Li Z., Wang Q.D., Wakker B.P., 2009, MNRAS, 397, 148
"M31* and its circumnuclear environment"
71. Savage B.D., Wakker B.P., 2009, ApJ, 702, 1472
"The extension of the transition temperature plasma into the lower galactic halo"
72. Narayanan A., Savage B.D., Wakker B.P., 2009, ApJ, 703, 74
"Detection of NeVIII in an intervening multi-phase absorption system toward 3C 263"
73. Jiang B.-Z., Lieu R., Zhang S.N., Wakker B.P., 2010, ApJ, 708, 375
"Significant foreground unrelated non-acoustic anisotropy on the 1 degree scale in WMAP 5-year observations"
74. Narayanan A., Savage B.D., Wakker B.P., 2010, ApJ, 712, 1443
"Highly ionized plasma in the halo of a luminous spiral galaxy near z=0.25
75. Fox A.J., Wakker B.P., Smoker J.V., Richter P., Savage B.D., Sembach K.R., 2010, ApJ, 718, 1046
"Probing the Magellanic Stream in ultraviolet and optical absorption"
76. Savage B.D., Narayanan A., Wakker B.P., Stocke J.T., Keeney B.A., Shull J.M., Sembach K.R., Yao Y.,C., Green J., 2010, ApJ, 719, 1526
"O VI absorbers tracing hot gas associated with a pair of galaxies at z=0.167
77. Nasoudi-Shoar S., Richter P., de Boer K.S., Wakker B.P., 2010, A&A, 520, 26
"Interstellar absorption towards the LMC: Small-scale density variations in Milky Way disk gas"
78. Narayanan A., Wakker B.P., Savage B.D., Keeney B.A., Shull J.M., Stocke J.T., Sembach K.R., 2010, ApJ, 721, 960
"Cosmic Origins Spectrograph and FUSE observations of T$\sim 10^5$ K gas in a nearby galaxy filament"
79. Wakker B.P., Lockman F.J., Brown J., 2011, ApJ, 728, 159
"Measuring turbulent in the interstellar mediumby comparing N(HI; Lyα) and N(HI; 21cm)"

80. Narayanan A., Savage B.D., Wakker B.P. Danforth C.W., Yao Y., Keeney B.A., Shull J.M., Sembach K.R., Froning C.S., Green J.C., 2011, ApJ, 730,15
"Cosmic Origins Spectrograph detection of NeVIII tracing warm-hot gas towards PKS 0405−123"
81. Savage B.D., Narayanan A., Lehner N., Wakker B.P., 2011, ApJ, 731, 14 "A multiphase absorber containing O VI and broad H I directly tracing 10^6 K plasma at low redshift toward HE0153-4520"

PAPERS IN PREPARATION

82. Wakker B.P., van Woerden H., 2011, "Stars and Stellar Systems. Vol III"
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