

Curriculum Vitae — Patrick Brian Hall

Associate Professor
York University

March 4, 2010

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Degrees

- Ph.D. Astronomy, University of Arizona, Dept. of Astronomy, January 1998
Thesis: *An Optical/Infrared Study of Radio-Loud Quasar Environments*
Advisor: Dr. Richard F. Green
- B.A. Astronomy, University of California at Berkeley, Dept. of Astronomy, May 1990
- B.A. Physics, University of California at Berkeley, Dept. of Physics, May 1990

Employment History

07/09-present	Associate Professor and Member of the Faculty of Graduate Studies (to 06/30/2010), Department of Physics and Astronomy, York University
07/04-06/09	Assistant Professor and Member of the Faculty of Graduate Studies, Department of Physics and Astronomy, York University
10/03-06/04	Research Associate, Department of Astrophysical Sciences, Princeton University
10/00-9/03	Research Associate, Princeton University Observatory, Princeton University; and Investigador Asociado, Depto. de Astronomía, P. Universidad Católica de Chile
1/98-9/00	Post-Doctoral Fellow, Department of Astronomy, University of Toronto
6/94-12/97	Graduate Research Assistant, Department of Astronomy, University of Arizona
9/93-5/94	Graduate Teaching Assistant, Department of Astronomy, University of Arizona
9/90-8/93	Graduate Research Assistant, Department of Astronomy, University of Arizona
6/89-8/89	Summer Undergraduate Research Assistant, Department of Physics and Astronomy, University of Wyoming

Academic Honours and Awards

- York University Merit Award Recipient (\$2,000 in 2006-2007, 2007-2008 and 2008-2009)
- National Science Foundation Graduate Fellowship (1991-1993, 1995-1996)
- University of Arizona Graduate Fellowship (1990-1991)
- High Distinction in General Scholarship (summa cum laude) at U.C. Berkeley (1990)
- Regents' and Chancellors' Scholar, University of California, Berkeley (1986-1990)

Scholarly and Professional Activities

- Presented poster paper at the International Astronomical Union Symposium *Co-evolution of Central Black Holes and Galaxies*, Rio de Janeiro, Brazil, August 2009
- York University Department of Physics & Astronomy Graduate Program & Admissions Committee, **Summer 2009 - Summer 2010**
- York University Faculty of Science & Engineering Committee on Tenure and Promotions **alternate member, Summer 2009 - Summer 2010** (alternate at January 2010 meeting)
- Participant, *Observing with ALMA* Workshop at McMaster University, June 1-3, 2009
- York University Faculty of Science & Engineering Curriculum committee member, **Summer 2008-present**
- York University Department of Physics & Astronomy Curriculum committee Chair, Summer 2008-Summer 2009
- Invited Participant, Aspen Center for Physics Summer Workshop *Active Galactic Nuclei: The Interplay Between Super-Massive Black Holes, Star Formation and Galaxy Evolution*, July 2008
- Canadian National Telescope Time Allocation Committee member, **May 2008 - June 2010**
- Co-Investigator, Hubble Space Telescope approved observing program *When degenerate stars collide: Understanding A New Explosion Phenomena*, May 2008
- Principal Applicant, NSERC Special Research Opportunity proposal *A Canadian Participation Group for the Sloan Digital Sky Survey III*, April 2007 - May 2008 (unsuccessful)
- Principal Investigator, Gemini Observatory approved observing program *Identification Spectroscopy of $5.5 < z < 6.5$ Quasar Candidates*, semesters 2008A & 2008B
- Canadian Space Agency High-Energy Astronomy Discipline Working Group Extragalactic Subcommittee Chair, January 2008 - April 2009
- York University FSE Library committee chair, Fall 2007-Summer 2009
- York University Faculty Senate Library & Information Technology Committee, Nov. 2007-2008
- Co-Applicant, NSERC Special Research Opportunity accepted proposal *Astronomical Research with the International Liquid Mirror Telescope*, **September 2007 - present**
- Spearheaded astronomy group computer activities (cleaning of computer room, purchase of color printer, investigation of possible improvements to computing support), Aug. 2007 - Aug. 2008
- York University Faculty Advisor to the York U. Astronomy Club, 2007-2008 Academic Year
- Research mentor for winner of the 2007 Ontario Association of Physics Teachers high school physics competition (see research mentoring section), August 2007
- Faculty participant in the York/Seneca Summer Science & Technology Program involving local high school students in research (see research mentoring section), Summer 2007 and 2008

- Invited Speaker, graduate student workshop *Cooking with the Sloan Digital Sky Survey*, Canadian Astronomical Society Annual Meeting, May 2007, archived at http://ara.phys.yorku.ca/sdss_casca07_files/frame.htm
- York University Division of Natural Science Faculty Advisor to the student-run NATS-AID tutoring program, April 2007-September 2008
- York University Department of Physics & Astronomy Theoretical Physics faculty job search committee member, Fall-Winter 2006-2007
- York University Faculty of Science & Engineering Research & Awards committee member, Fall 2006-Summer 2008
- Canadian Lead Scientist for Gemini Observatory approved observing program *Rapid Spectroscopy and Imaging Follow-up of Gamma-Ray Burst Afterglows*, semesters 2007A-2009A
- Co-Investigator, Hubble Space Telescope approved observing program *A Unique High Resolution Window to Two Strongly Lensed Lyman Break Galaxies*, 2007-2008
- Co-Investigator, Chandra X-ray Observatory approved observing program *Deconstructing the Accretion Disk Wind in Quasars*, 2007-2008
- York University Department of Physics & Astronomy Recruitment & Retention committee member, Fall-Winter 2006-2007 [initiated successful textbook donation at Fall 2006 high school teacher's night; participated in March Gala 2007; drafted careers webpage for dept. website]
- Co-Investigator, XMM-Newton Space Telescope approved observing program *X-ray properties of extreme UV-Fe II emitters*, 2006-2007
- James Clerk Maxwell Telescope Canadian Time Allocation Group member, July 2006 - May 2008
- Participant, *Learner-Centered Astronomy: A Teaching Excellence Workshop*, Calgary, June 2006
- Stood for membership (unsuccessfully) in the York University Faculty of Graduate Studies Appeals & Academic Honesty Committee, June 2006
- Invited Speaker, *AGN Winds in the Caribbean* conference, November 2005
- York University Division of Natural Science Advisory Council, October 2005-October 2008
- York University Department of Physics & Astronomy weekly astronomy group journal club organizer, Fall 2005-Summer 2008
- York University FSE Library committee member, Fall 2005-Fall 2007
- Colloquium Organizer, York University Dept. of Physics & Astronomy, Sept. 2004-May 2006
- Scientific Organizing Committee Member and Invited Speaker, *2004 Ringberg Castle Workshop on AGN Physics*, November 2004
- Invited talk on the Sloan Digital Sky Survey and my research using it at annual York University Physics & Astronomy Graduate Student Research Day, August 2004

- Participated in *Cosmos in the Classroom* professional meeting on astronomy teaching and education, July 2004
- Invited Speaker, *Guillermo Haro Conference on Multiwavelength AGN Surveys*, December 2003
- Visiting Research Associate, University of Wyoming, October 2003
- Co-Chair of the Scientific and Local Organizing Committees for the scientific conference “*AGN Physics with the SDSS*,” July 2003 (<http://astro.princeton.edu/~gtr/sdssagn2003/>)
- NSF Astronomy Grant Review Panel Member, March 2003
- Colloquium co-organizer, P. Universidad Católica Depto. de Astronomía (2001-2002)
- Co-Organizer, Special Session on “Evolution of Galaxies Using Large Multicolor Samples,” Rochester AAS meeting, June 2000
- University of Toronto Open Campus Day, Astronomy Day, and Biweekly Public Astronomy Evenings Participant, 1998-1999
- Maintainer of the Astronomy Job Rumor Page, 1996-2003
- NASA Science Speaker Volunteer (outreach to local schools), 1994-1997
- U. of Arizona Science Connection Volunteer (local grade school outreach), 1994-1995
- Boston Museum of Science Science-By-Mail Volunteer (grade school outreach), 1993-1995
- Steward Observatory Graduate Admissions Committee, 1991-1992

Graduate Supervision (2 Doctoral in progress; 1 Master’s in progress & 2 completed)

- Laura Chajet, York University Astronomy PhD program (**December 2007-present**)
- Jesse Rogerson, York University Astronomy Thesis Master’s program (**September 2007-present**)
- Laura Chajet, York University Astronomy Thesis Master’s program, *Infrared Confirmation of $z > 5.5$ Quasar Candidates* (May 2005-November 2007)
- Banafsheh Hashemi Pour, York University Astronomy Project Master’s, *Radio Properties of Broad Absorption Line Quasars* (May 2005-May 2007)
- Alireza Rafiee, York University Astronomy PhD program (**September 2004-present**)

Graduate Supervisory and Examining Committee Memberships

- York University Faculty of Graduate Studies Master’s examining committee member for Mr. Piotr Wenderski (program: Earth and Space Science; supervisor: Dr. Jinjun Shan), October 2009
- York University Faculty of Graduate Studies PhD examining committee Chair for Mr. Chris Ryan (program: Physics and Astronomy; supervisor: Dr. Michael De Robertis), January 2009

- York University Faculty of Graduate Studies Master's examining committee member for Ms. Hua Lin (program: Earth and Space Science; supervisor: Dr. Jinjun Shan), November 2008
- York University Faculty of Graduate Studies PhD examining committee member for Mr. Jerome Whyte (program: Physics and Astronomy; supervisor: Dr. Scott Menary), September 2008
- York University Department of Physics and Astronomy internal PhD supervisory committee member for Ms. Robin Metcalfe (program: Physics and Astronomy, supervisor: Dr. Marshall McCall), December 2007
- York University Faculty of Graduate Studies Master's examining committee member for Mr. Peter Luca (program: Physics and Astronomy; supervisor: Dr. Norbert Bartel), September 2007
- York University Faculty of Graduate Studies PhD examining committee Chair for Ms. Svitlana Prada (program: Physics; supervisor: Dr. Diethard Bohme), July 2007
- York University Faculty of Graduate Studies PhD examining committee member for Mr. Ovidiu Vaduvescu (program: Physics and Astronomy; supervisor: Dr. Marshall McCall), Nov. 2005
- York University Faculty of Graduate Studies Master's examining committee member for Mr. Louis-Philippe Caron (program: Physics and Astronomy; supervisor: Dr. Wayne Cannon), Oct. 2004

Graduate, Undergraduate and High School Student Research Mentoring

- **July 2009:** supervised high school student Osato Idemudia in constructing a website for York's Scale Model of the Solar System.
- **May-August 2009:** supervised York/U. of Toronto undergraduate student (and NSERC USRA recipient) Konstantin Anosov in a project to study and write a paper on dramatic spectral variability in an 'overlapping-trough' broad absorption line quasar.
- July-August 2008: with Master's student Jesse Rogerson, supervised high school students Haripraneeth Kugan (1 week) and Harvinderpal Ghotra (3 weeks) to identify *R*-band dropout objects (candidate high-redshift quasars and brown dwarfs) in the Red-Sequence Cluster Survey.
- **December 2007-present:** supervising York graduate student Laura Chajet on a PhD project to predict quasar broad emission line profiles for a variety of disk wind outflow scenarios.
- **September 2007-present:** supervising York master's student Jesse Rogerson on a project using X-ray flux limits on two unusual BAL quasars to constrain their outflows' physical properties.
- August-October 2007: worked with York undergraduate Aaron Maxwell to rule out possible identifications for unusual molecular absorption bands in the spectra of certain white dwarf stars. Mr. Maxwell is 2nd author on a paper about these objects (Hall & Maxwell 2008).
- August 2007: worked with Ottawa high school student Bill Long to classify all spectra classified UNKNOWN by the Sloan Digital Sky Survey, and to examine high-redshift quasar candidates.
- July 2007: worked with Toronto high school student Akshay Awal to classify all spectra classified UNKNOWN by the Sloan Digital Sky Survey. Mr. Awal discovered a very unusual white dwarf, and is a coauthor on the paper about this object (Hall et al. 2008).

- May 2007-Aug. 2007: worked with York undergraduate (and NSERC USRA recipient) Rachel Ward to refine and extend the disk wind model of Murray & Chiang, use it to predict quasar broad emission line profiles, and to search for regions of parameter space for which the predicted profiles match the observations. A paper is in prep, and Ms. Ward won second place for her talk on this work at the 2007 Canadian Undergraduate Physics Conference.
- May 2006-Sept. 2006: worked with York undergraduate (and NSERC USRA recipient) Sarah Sadavoy to analyze high-resolution spectra of quasar outflows, resulting in a paper (Hall, Sadavoy et al. 2007) and a talk by Ms. Sadavoy at the 2006 Canadian Undergraduate Physics Conference.
- Sept. 2005-June 2006: worked with York undergraduate Victor Arora on the optical/near-IR spectra of two unusual broad absorption line quasars, resulting in a poster by Mr. Arora at the 2006 Canadian Astronomical Society Annual Meeting.
- May 2005-Nov. 2007: supervised York graduate student Laura Chajet on a Master's project to select candidate very high redshift quasars from near-infrared imaging data. Ms. Chajet presented her work at a meeting of the Canadian Astronomical Society, and a paper is in prep.
- May 2005-May 2007: supervised York graduate student Banafsheh Hashemi-Pour on a Master's project to study the radio emission of broad absorption line quasars.
- May 2005-Aug. 2005: worked with York undergraduate Rachel Ward on reduction of near-infrared imaging of candidate very high redshift quasars.
- May 2005-Aug. 2005: worked with York undergraduate Sandy Hsu on analysis of photo- and spectro-polarimetry of broad absorption line quasars.
- **September 2004-present:** supervising York graduate student Alireza Rafiee on a PhD project to study the black hole masses of quasars. Mr. Rafiee has presented results of his work at three meetings of the Canadian Astronomical Society and two meetings of the American Astronomical Society. At the 211th meeting of the AAS in Austin, Texas in January 2008, Mr. Rafiee received a Chambliss Astronomy Achievement Student Award Honorable Mention for his poster "Quasar Lifetimes and Black Hole Spins." These awards "recognize exemplary research by undergraduate and graduate students." Mr. Rafiee also travelled to Kitt Peak National Observatory in November 2007 to help conduct observations for a related wide-field infrared survey for quasars.
- Dec. 2003-May 2006: worked with Penn State undergraduate Jon Trump (advisor: Don Schneider) to catalog intrinsic absorbers – both traditional BAL troughs and narrower or lower-velocity systems – in SDSS quasars, resulting in Trump et al. 2006.
- September 2003 - July 2004: worked with Penn State graduate student Junfeng Wang (advisor: Jian Ge) on several SDSS quasars whose spectra show the 2175 Å dust extinction bump from a strong intervening metal-line absorption system along the line of sight (Wang, Hall et al. 2004; Wang et al. 2005).
- May 2003-Aug. 2005: worked with Toronto graduate student Adam Muzzin (advisor: Howard Yee) on reducing and analyzing near-IR observations of Canadian Network for Observational Cosmology galaxy clusters, resulting in Muzzin et al. 2007ab.

- June 2003: worked with Princeton undergraduate Martin Niederste-Ostholt, resulting in his coauthorship on the SDSS DR1 Quasar Catalog paper (Schneider et al. 2003) and third authorship on Hall et al. "A Quasar Without Broad Lyman-alpha Emission," AJ, August 2004.
- May 2003 - June 2004: collaborated with Princeton undergraduate Phil Hopkins (advisor: Michael Strauss) to publish his junior thesis work, which confirmed that dust reddening is the primary explanation for red SDSS quasars and showed that reddening with SMC-like extinction curves dominates the reddening observed toward quasars (Hopkins, Strauss, Hall et al. 2004).
- November - December 2002: worked with Catolica undergraduate Juan Esteban Gonzalez on preparing for, conducting, and analyzing data from IR imaging observing runs. Excellent-seeing data on one gravitational lens was incorporated in Winn, Hall & Schneider (2003).
- April 2002 - August 2003: collaborated with Penn State undergraduate Tim Reichard (advisor: Don Schneider), later a graduate student at Johns Hopkins, on cataloging and studying BAL quasars from the SDSS (Reichard et al. 2003ab).
- September 2001: worked with Catolica undergraduate Claudio Navarro on preparing for and conducting IR imaging and optical spectroscopic observing runs. Data to be incorporated in "A CTIO Survey for Active Galactic Nuclei from 2MASS," Hall et al., in prep.
- June - Sept. 2000: worked with Toronto graduate student Wayne Barkhouse (advisor: Howard Yee) on cataloging known AGN in the Two-Micron All-Sky Survey (Barkhouse & Hall 2001).

Graduate Teaching

- Winter 2010: York University Physics 4070/5090 'Stars and Nebulae'
- Fall 2008 - Winter 2009: York University Physics 4270/5390 'Astronomical Techniques'
- Winter 2008: York University Physics 4070/5090 'Stars and Nebulae'
- Fall 2006 - Winter 2007: York University Physics 4270/5390 'Astronomical Techniques' graduate/advanced undergraduate laboratory course (year-long course required for astronomy graduate students and astronomy stream physics majors), including development of extrasolar planet transit observing project featured in Y-File Apr. 30, 2007: <http://www.yorku.ca/yfile/archive/index.asp?Article=8366>
- Winter 2006: York University Physics 4070/5090 'Stars and Nebulae' graduate/advanced undergraduate course on Stellar Physics, Radiative Transfer and Interstellar Matter (one-term course required for astronomy graduate students and honours astronomy stream physics majors)
- 2002: P. U. Católica Student Seminar Series on Quasars (1/6-term course)
- 2000: U. Toronto minicourse on Active Galactic Nuclei (1/3-term course)

Undergraduate Teaching

- Fall 2009 - Winter 2010: Natural Sciences 1740 'Astronomy'

- Winter 2009: Physics 4310 'Physics or Astronomy Project' (one-term research project course for two undergraduate students)
- Fall 2008 - Winter 2009: Natural Sciences 1740 'Astronomy'
- Winter 2008: Natural Sciences 1740 'Astronomy' (two-term introductory course for students outside the Faculty of Science), including development of seven new lab exercises (out of eight in the class) over 4 years, two semesters' worth of WebCT quizzes over 2 years, and two semesters' worth of in-class 'clicker' questions over 2 years.
- Fall 2007: Physics 1070 'Fundamentals of Astronomy' (one-term introductory course open to any student; required for astronomy stream physics majors)
- Fall 2006 - Winter 2007: Natural Sciences 1740 'Astronomy'
- Fall 2005 - Winter 2006: Natural Sciences 1740 'Astronomy'
- Fall 2005: Physics 4310 'Physics or Astronomy Project' (one-term research project course for one undergraduate student)
- Winter 2005: Physics 1070 'Fundamentals of Astronomy'
- Fall 2004: Natural Sciences 1740 'Astronomy'

External Research Funding

7/09-6/14	Ontario Early Researcher Award <i>Outflows from disks of matter orbiting supermassive black holes</i> (\$100,000, matched with \$50,000 from York University)
5/07-4/12	NSERC Discovery Grant <i>Connections Between Active Galactic Nuclei and Galaxy Bulges</i> (\$121,400)
5/05-4/07	NSERC Discovery Grant <i>Intrinsic Absorption in Sloan Digital Sky Survey Quasars</i> (\$45,800)
9/03-9/04	XMM-Newton A02 program <i>X-rays from Extreme Broad Absorption Line Quasars</i> (US\$38,000; Budgetary PI: Dr. Mike Brotherton)
5/03-4/04	<i>A Conference on Active Galactic Nuclei Physics with the Sloan Digital Sky Survey</i> (US\$6,000 to support the attendance of postdocs and graduate & undergraduate students actively working in the field; co-PI with Dr. Gordon Richards)
12/02-12/03	Chandra A04 program <i>X-rays from Extreme Broad Absorption Line Quasars</i> (US\$35,000; Budgetary PI: Dr. Mike Brotherton)
3/01-2/03	Chilean FONDECYT Research Grant <i>Toward an Unbiased View of Active Galactic Nuclei: Infrared Selection and Low Luminosities at High Redshift</i> (~US\$25,000)

Internal Research Funding

7/04-present	York University Start-Up Grant (\$33,000)
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Publications (Lifetime Summary)

Books: 0.5 (conference proceedings co-editor)

Chapters in books: 0

Papers in refereed journals: 150 (First author: 24)

Papers in refereed conference proceedings: 44 (First author: 8)

Technical reports: 0

Abstracts (unrefereed): 67 (First author: 19)

Other: 0

Publications

Books

- “AGN Physics with the Sloan Digital Sky Survey,” ed. G. T. Richards & **P. B. Hall**, 2004 (ASP: San Francisco) [reviewed by Ross McLure in *The Observatory: A Review of Astronomy*, vol. 125, no. 1184, pp. 59-60 (2005)]

Papers in Refereed Journals

(Key: AAS - American Astronomical Society; AJ - Astronomical Journal; ApJ - Astrophysical Journal; ApJL - Astrophysical Journal Letters; ApJS - Astrophysical Journal Supplement Series; A&A - Astronomy & Astrophysics; A&AL - Astronomy & Astrophysics Letters; BAAS - Bulletin of the American Astronomical Society; MNRAS - Monthly Notices of the Royal Astronomical Society; PASJ - Proceedings of the Astronomical Society of Japan; PASP - Proceedings of the Astronomical Society of the Pacific)

In Preparation

- “Line Blueshifts and Disk Winds,” **Hall**, Ward, Murray, Chajet, Everett & Richards, to be submitted in 2010
- “Dramatic Broad Absorption Line Variability in the Quasar FBQS 1408+3054,” **Hall**, Anosov et al., to be submitted to MNRAS

Submitted

- “SDSS J094604.90+183541.8: A Gravitationally Lensed Quasar at $z=4.8$,” McGreer, **Hall** et al., AJ, submitted Feb. 2010 (arXiv:1002.3832)
- “Supermassive Black Hole Mass Estimates Using Sloan Digital Sky Survey Quasar Spectra at $0.7 < z < 2$,” Rafiee & **Hall**, ApJS, submitted Dec. 2009
- “Chandra Observations of Two Unusual BAL Quasars,” Rogerson, **Hall**, Snedden, Brotherton & Anderson, *New Astronomy*, submitted Dec. 2009
- “The Sloan Digital Sky Survey Quasar Catalog V. Seventh Data Release,” Schneider, Richards, Hall et al. 2009, AJ, submitted Oct. 2009

- “The X-ray Spectrum and Spectral Energy Distribution of FIRST J155633.8+351758,” Berrington et al., ApJ, submitted Sep. 2007
- “X-ray Spectral Properties of the Large C IV Blueshift Quasar PG 1259+593,” Fang et al., ApJ, submitted June 2007

In Press

(Key to paper title fonts: **First Author**; *Heavy Involvement*; Some Contribution)

My contributions while at York to papers on which I am not the first author are discussed in italics.

- “Eight New Quasar Lenses from the Sloan Digital Sky Survey Quasar Lens Search,” Kayo, Inada, Oguri, Morokuma, **Hall**, Kochanek & Schneider, AJ, submitted Dec. 2009, accepted Feb. 2010 (arXiv:0912.1462)
I contributed the measurement of absorption-line properties of several newly discovered lenses.

Published

- “Detecting active comets in the SDSS,” Solontoi et al. 2010, Icarus, 205, 605-618
I contributed the discovery of several comets in the SDSS database.
- “Optically Selected BL Lacertae Candidates from the Sloan Digital Sky Survey Data Release Seven,” Plotkin et al. 2010, AJ, 139, 390-414
I contributed to the identification of unusual quasars.
- “A Public, K-Selected, Optical-to-Near-Infrared Catalog of the Extended Chandra Deep Field South (ECDFS) from the Multiwavelength Survey by Yale-Chile (MUSYC),” Taylor et al. 2009, ApJS, 183, 295-319
I participated in planning and obtaining the near-infrared imaging component of MUSYC.
- “The Seventh Data Release of the Sloan Digital Sky Survey,” Abazajian et al. 2009, ApJS, 182, 543-558
I contributed to the inspection of SDSS spectra for quasars, white dwarfs, and unusual objects.
- “Quasar Clustering from SDSS DR5: Dependences on Physical Properties,” Shen et al. 2009, ApJ, 697, 1656-1673
I contributed to the analysis and interpretation of the observations.
- “Clustering of Low-Redshift ($z \leq 2.2$) Quasars from the Sloan Digital Sky Survey,” Ross et al. 2009, ApJ, 697, 1634-1655
I contributed to the analysis and interpretation of the observations.
- “GRB 080503: Implications of a Naked Short Gamma-Ray Burst Dominated by Extended Emission,” Perley et al. 2009, ApJ, 696, 1871-1885
I contributed to the analysis and interpretation of the observations.
- “A Catalog of Broad Absorption Line Quasars in the Sloan Digital Sky Survey Data Release 5,” Gibson, Jiang, Brandt, **Hall**, Shen, Wu, Anderson, Schneider, Vanden Berk, Gallagher, Fan & York 2009, ApJ, 692, 758-777
I helped test and implement the absorption line detection algorithm, extracted the data on multiple observations of some objects, provided the catalog of FeLoBALs and other objects with complex absorption, and contributed to the scientific analysis.

- “Observations of the Naked-Eye GRB 080319B: Implications of Nature’s Brightest Explosion,” Bloom, Perley, Li, Butler, Miller, Kocevski, Kann, Foley, Chen, Filippenko, Starr, Macomber, Prochaska, Chornock, Poznanski, Klose, Skrutskie, Lopez, **Hall** & Blake 2009, ApJ, 691, 723-737
I contributed to the analysis and interpretation of the observations.
- “Rapidly Spinning Black Holes: An Open Question,” Rafiee & **Hall** 2009, ApJ, 691, 425-430
I found an error in a 2006 publication on this topic and advised my Ph.D. student Ali Rafiee in correcting the analysis and exploring the implications for the average spin of black holes.
- “Constraining the quasar population with the broad-line width distribution,” Fine, Croom, Hopkins, Hernquist, Bland-Hawthorn, Colless, **Hall**, Miller, Myers, Nichol, Pimblet, Ross, Schneider, Shanks & Sharp 2008, MNRAS, 390, 1413-1429
I independently verified an analysis which was key to interpreting these results.
- “Multiwavelength Survey by Yale-Chile (MUSYC): Wide K-band Imaging, Photometric Catalogs, Clustering and Physical Properties of Galaxies at $z \sim 2$,” Blanc, Lira, Barrientos, Aguirre, Francke, Taylor, Quadri, Marchesini, Infante, Gawiser, **Hall**, Willis, Herrera & Maza 2008, ApJ, 681, 1099-1115.
I participated in planning and obtaining the near-infrared imaging component of MUSYC.
- “Narrow associated QSO absorbers: clustering, outflows and the line-of-sight proximity effect,” Wild, Kauffmann, White, York, Lehnert, Heckman, **Hall**, Khare, Lundgren, Schneider & Vanden Berk 2008, MNRAS, 388, 227-241
I contributed to the analysis and interpretation of the observations.
- “A Nearby Old Halo White Dwarf Candidate from the Sloan Digital Sky Survey,” **Hall**, Kowalski, Harris, Awal, Leggett, Kilic, Anderson & Gates 2008, AJ, 136, 76-82; featured in a York University press release available at the YSSSTP website <http://www.yssstp.ca/projects/yssstp.html>
- “A Large Sample of BL Lac Objects from the SDSS and FIRST,” Plotkin, Anderson, **Hall**, Margon, Voges, Schneider, Stinson & York 2008, AJ, 135, 2453-2469
I contributed to the identification of candidate BL Lac objects from SDSS spectra.
- “Additional Ultracool White Dwarfs Found in the Sloan Digital Sky Survey,” Harris, Gates, Gyuk, SubbaRao, Anderson, **Hall**, Munn, Liebert, Knapp, Bizyaev, Malanushenko, Malanushenko, Pan, Schneider & Smith 2008, ApJ, 679, 697-703
I contributed to the identification of ultracool white dwarfs from SDSS spectra.
- “Average Properties of a Large Sample of $z(\text{abs}) \sim z(\text{em})$ Mg II Absorption Line Systems,” Vanden Berk, Khare, York, Richards, Lundgren, Alsayyad, Kulkarni, SubbaRao, Schneider, Heckman, Anderson, Crotts, Frieman, Stoughton, Lauroesch, **Hall**, Meiksin, Steffing & Vanlandingham 2008, ApJ, 679, 239-259
I contributed to the analysis and interpretation of the observations, particularly with regard to the excess reddening found in quasars detected at radio wavelengths.
- “C₂ in Peculiar DQ White Dwarfs,” **Hall** & Maxwell 2008, ApJ, 678, 1292-1297
- “Quasar Clustering at 25kpc/h from a Complete Sample of Binaries,” Myers, Richards, Brunner, Schneider, Strand, **Hall**, Blomquist & York 2008, ApJ, 635-646

I contributed to the identification of quasars from SDSS spectra.

- “Do Broad Absorption Line Quasars Live in Different Environments from Ordinary Quasars?,” Shen, Strauss, **Hall**, Schneider, York & Bahcall 2008, ApJ, 677, 858-862
I contributed to the construction of the BAL quasar sample used in this project.
- “The Sixth Data Release of the Sloan Digital Sky Survey,” Adelman-McCarthy et al. 2008, ApJS, 175, 297-313
I contributed to the inspection of SDSS spectra for quasars, white dwarfs, and unusual objects.
- “The Black Hole-Bulge Relationship in Luminous Broad-Line Active Galactic Nuclei and Host Galaxies,” Shen, Vanden Berk, Schneider & **Hall** 2008, AJ, 135, 928-946
I contributed heavily to the analysis and interpretation in this paper, in particular by running a partial correlation analysis to help determine relationships between key parameters.
- “The Sloan Digital Sky Survey Quasar Lens Search. II. Statistical Lens Sample from the Third Data Release,” Inada, Oguri, Becker, Shin, Richards, Hennawi, White, Pindor, Strauss, Kochanek, Johnston, Gregg, Kayo, Eisenstein, **Hall** et al. 2008, AJ, 135, 496-511
I contributed to assembling the SDSS quasar sample used for this project.
- “The Sloan Digital Sky Survey Quasar Lens Search. III. Constraints on Dark Energy from the Third Data Release Quasar Lens Catalog,” Oguri, Inada, Strauss, Kochanek, Richards, Schneider, Becker, Fukugita, Gregg, **Hall** et al. 2008, AJ, 135, 512-519
I contributed to assembling the SDSS quasar sample used for this project.
- “On the Spectral Evolution of Cool, Helium-Atmosphere White Dwarfs: Detailed Spectroscopic and Photometric Analysis of DZ Stars,” Dufour, Bergeron, Liebert, Harris, Knapp, **Hall**, Strauss, Collinge & Edwards 2007, ApJ, 663, 1291-1308
I contributed to assembling the white dwarf sample used for this project.
- “The Fifth Data Release of the Sloan Digital Sky Survey,” Adelman-McCarthy et al. 2007, ApJS, 172, 634-644
I contributed to the inspection of SDSS spectra for quasars, white dwarfs, and unusual objects.
- “A New Quadruply Lensed Quasar: SDSS J125107.57+293540.5,” Kayo, Inada, Oguri, **Hall**, Kochanek, Richards, Schneider, York & Pan 2007, AJ, 134, 1515-1521
I contributed to assembling the SDSS quasar sample used for this paper, streamlined the discussion in it, and helped create a figure to illustrate a key result.
- “Acceleration and Substructure Constraints in a Quasar Outflow,” **Hall**, Sadavoy, Hutsemekers, Everett & Rafiee 2007, ApJ, 665, 174-186
- “The Multiwavelength Survey by Yale-Chile (MUSYC): Deep Near-Infrared Imaging and the Selection of Distant Galaxies,” Quadri, Marchesini, van Dokkum, Gawiser, Franx, Lira, Rudnick, Urry, Maza, Kriek, Barrientos, Blanc, Castander, Christlein, Coppi, **Hall**, Herrera, Infante, Taylor, Treister & Willis 2007, AJ, 134, 1103-1117
I participated in planning and obtaining the near-infrared imaging component of MUSYC.

- “Near-Infrared Properties of Moderate-Redshift Galaxy Clusters: Halo Occupation Number, Mass-to-Light Ratios and Ω_M ,” Muzzin, A., Yee, H. K. C., **Hall, P. B.**, and Lin, H., 2007, ApJ, 663, 150-163
I helped plan and obtain the near-infrared images used in this project and developed custom reduction software to mosaic them together and provide images for analysis.
- “The Sloan Digital Sky Survey Quasar Catalog. IV. Fifth Data Release,” Schneider, **Hall** et al. 2007, AJ, 134, 102-117
I contributed greatly to the detailed evaluation of thousands of SDSS spectra needed to achieve high completeness and low contamination in this sample.
- “A Systematic Search for High Surface Brightness Giant Arcs in a Sloan Digital Sky Survey Cluster Sample, Estrada, Annis, Diehl, **Hall**, Las, Lin, Makler, Merritt, Scarpine, Allam & Tucker 2007, ApJ, 660, 1176-1185
I discovered a gravitationally lensed arc discussed in this paper.
- “Near-Infrared Properties of Moderate-Redshift Galaxy Clusters: Luminosity Functions and Density Profiles,” Muzzin, A., Yee, H. K. C., **Hall, P. B.**, Ellingson, E., and Lin, H., 2007, ApJ, 659, 1106-1124
I helped plan and obtain the near-infrared images used in this project and developed custom reduction software to mosaic them together and provide images for analysis.
- “Clustering of High Redshift ($z > 2.9$) Quasars from the Sloan Digital Sky Survey,” Shen, Strauss, Oguri, Hennawi, Fan, Richards, **Hall**, Gunn, Schneider, Szalay, Thakar, Vanden Berk, Anderson, Bahcall, Connolly & Knapp 2007, AJ, 133, 2222-2241
I contributed to assembling the SDSS quasar sample used for this project.
- “The UV Properties of SDSS-Selected Quasars,” Trammell, Vanden Berk, Schneider, Richards, **Hall**, Anderson & Brinkmann 2007, AJ, 133, 1780-1794
I contributed to assembling the SDSS quasar sample used for this project.
- “A Quasar with Broad Absorption in the Balmer Lines,” **Hall, P. B.**, 2007, AJ, 133, 1271-1274
- “Broad Absorption Line Variability in Repeat Quasar Observations from the Sloan Digital Sky Survey,” Lundgren, Wilhite, Brunner, **Hall**, Schneider, York, Vanden Berk & Brinkmann 2007, ApJ, 656, 73-83
I contributed to the construction of the BAL quasar sample used in this project and to the analysis and interpretation of the observations.
- “Cosmological Constraints from the Red-Sequence Cluster Survey,” Gladders, Yee, Majumdar, Barrientos, Hoekstra, **Hall** & Infante 2007, ApJ, 655, 128-134
I participated in planning and obtaining the imaging data used for this project.
- “Hubble Space Telescope Ultraviolet Spectroscopy of Fourteen Low-Redshift Quasars,” Ganguly et al. 2007, AJ, 133, 479-486
I was a co-investigator who contributed to the proposal for this project.
- “A Large, Uniform Sample of X-ray Emitting AGN from the ROSAT All-Sky and Sloan Digital Sky Surveys: the Data Release 5 Sample,” Anderson et al. 2007, AJ, 133, 313-329

I contributed to assembling the SDSS quasar sample used for this project.

- “Discovery of a Gravitationally Lensed Quasar from the Sloan Digital Sky Survey: SDSS J133222.62+034739.9,” Morokuma, Inada, Oguri, Ichikawa, Kawano, Tokita, Kayo, **Hall**, Kochanek, Richards, York & Schneider 2007, AJ, 133, 214-219
I contributed to assembling the SDSS quasar sample used for this project, and to streamlining the discussion in this paper.
- “Two New Gravitationally Lensed Double Quasars from the Sloan Digital Sky Survey,” Inada, Oguri, Becker, White, Kayo, Kochanek, **Hall**, Schneider, York & Richards 2007, AJ, 133, 206-213
I contributed to assembling the SDSS quasar sample used for this project, and identified an unusual intervening absorption system in one of the lenses.
- “Chandra Observations of Red Sloan Digital Sky Survey Quasars,” **Hall**, Gallagher, Richards, Alexander, Anderson, Bauer, Brandt & Schneider 2006, AJ, 132, 1977-1988
- “Spectral Energy Distributions and Multiwavelength Selection of Type 1 Quasars,” Richards, Lacy, Storrie-Lombardi, **Hall**, Gallagher, Hines, Fan, Papovich, Vanden Berk, Trammell, Schneider, Vestergaard, York, Jester, Anderson, Budavari & Szalay 2006b, ApJS, 166, 470-497
I contributed to assembling the SDSS quasar sample used for this project and provided some additional photometry.
- “Chandra Observations of SDSS J1004+4112: Constraints on the Lensing Cluster and Anomalous X-Ray Flux Ratios of the Quadruply Imaged Quasar,” Ota, Inada, Oguri, Mitsuda, Richards, Suto, Brandt, Castander, Fujimoto, **Hall**, Keeton, Nichol, Schneider, Eisenstein, Frieman, Turner, Minezaki & Yoshii 2006, ApJ, 647, 215-221
I was a co-investigator who contributed to the proposal for this project.
- “A Catalog of Broad Absorption Line Quasars from the Sloan Digital Sky Survey Third Data Release,” Trump, J. R., **Hall, P. B.**, Reichard, Richards, Schneider, Vanden Berk, Knapp, Anderson, Fan, Brinkmann, Kleinman & Nitta 2006, ApJS, 165, 1-18 [cited in *Astrophysics in 2006*, Trimble et al. astro-ph/0705.1730]
I contributed heavily to improving the semi-automated identification of BAL quasars and to the measurement, analysis and interpretation of their absorption properties.
- “Variable Faint Optical Sources Discovered by Comparing POSS and SDSS Catalogs,” Sesar, Svilkovic, Ivezić, Lupton, Munn, Finkbeiner, Steinhardt, Siverd, Johnston, Knapp, Gunn, Rockosi, Schlegel, Vanden Berk, **Hall**, Schneider & Brunner 2006, AJ, 131, 2801-2825
I contributed to assembling the SDSS quasar sample used for this project.
- “The SDSS Quasar Survey: Quasar Luminosity Function from Data Release Three,” Richards, G. T., Strauss, M. A., Fan, X., **Hall, P. B.**, Jester, Schneider, Vanden Berk, Stoughton, Anderson, Brunner, Gray, Gunn, Ivezić, Kirkland, Knapp, Loveday, Meiksin, Pope, Szalay, Thakar, Yanny & York 2006a, AJ, 131, 2766-2787
I contributed to assembling the SDSS quasar sample used for this project.
- “Average Extinction Curves and Relative Abundances for QSO Absorption Line Systems at $1 < z < 2$,” York, Khare, Vanden Berk, Kulkarni, Crofts, Lauroesch, Richards, Schneider, Welty,

Alsayyad, Kumar, Lundgren, Shanidze, Smith, Vanlandingham, Baugher, **Hall**, Jenkins, Menard, Rao, Tumlinson, Turnshek, Yip & Brinkmann 2006, MNRAS, 367, 945-978

I contributed to assembling the SDSS quasar sample used for this project, and to the interpretation of reddenings estimated for various subsamples.

- “The Fourth Data Release of the Sloan Digital Sky Survey,” Adelman-McCarthy, J., et al. 2006, ApJS, 162, 38-48
I contributed to the inspection of SDSS spectra for quasars, white dwarfs, and unusual objects.
- “Spectral Decomposition of Broad-Line AGNs and Host Galaxies,” Vanden Berk, Shen, Yip, Schneider, Connolly, Burton, Jester, **Hall**, Szalay & Brinkmann 2006, AJ, 131, 84-99
I contributed to assembling the quasar sample used herein, and to the interpretation of the results.
- “SDSS J102111.02+491330.4: A Newly Discovered Gravitationally Lensed Quasar,” Pindor, Eisenstein, Gregg, Becker, Inada, Oguri, **Hall**, Johnston, Richards, Schneider, Turner, Brasi, Hinz, Kenworthy, Miller, Barentine, Brewington, Brinkmann, Harvanek, Kleinman, Krzesinski, Long, Neilsen Jr., Newman, Nitta, Snedden & York 2006, AJ, 131, 41-48
I investigated and ruled out numerous gravitational lens candidates; the null results of that search were published herein.
- “Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering on Small Scales,” Hennawi, Strauss, Oguri, Inada, Richards, Pindor, Schneider, Becker, Gregg, **Hall**, Johnston, Fan, Burles, Schlegel, Gunn, Lupton, Bahcall, Brunner & Brinkmann 2006, AJ, 131, 1-23
Some of the gravitational lens candidates I investigated turned out to be binary quasars useful for this project.
- “Ultracompact AM CVn Binaries from the Sloan Digital Sky Survey: Three Candidates Plus the First Confirmed Eclipsing System,” Anderson, S. F., et al. 2005, AJ, 130, 2230-2236
I contributed to identifying some of the unusual binary stars discussed in this paper.
- “SDSS J024634.11-082536.2: A New Gravitationally Lensed Quasar from the Sloan Digital Sky Survey,” Inada, Burles, Gregg, Becker, Schechter, Eisenstein, Oguri, Castander, **Hall**, Johnston, Pindor, Richards, Schneider, White, Brinkmann, Szalay & York 2005, AJ, 130, 1967-1976
I contributed to assembling the SDSS quasar sample used for this project.
- “The Optical-Infrared Colors of CORALS QSOs: Searching for Dust Reddening Associated with High-Redshift Damped Ly α Systems,” Ellison, S. L., **Hall**, P. B., & Lira, P. 2005, AJ, 130, 1345-1357
I contributed heavily to the analysis and interpretation in this paper.
- “New Low Accretion-Rate Magnetic Binary Systems and their Significance for the Evolution of Cataclysmic Variables,” Schmidt, Szkody, Vanlandingham, Anderson, Barentine, Brewington, **Hall**, Harvanek, Kleinman, Krzesinski, Long, Margon, Neilsen, Newman, Nitta, Schneider & Snedden 2005, ApJ, 630, 1037-1053
I contributed to identifying some of the unusual binary stars discussed in this paper.
- “The SDSS View of the Palomar-Green Bright Quasar Survey,” Jester, Schneider, Richards, Green, Schmidt, **Hall**, Strauss, Vanden Berk, Stoughton, Gunn, Brinkmann, Kent, Smith, Tucker & Yanny 2005, AJ, 130, 873-895
I contributed heavily to the analysis and interpretation in this paper.

- “Magnetic White Dwarfs from the SDSS II. The Second and Third Data Releases,” Vanlandingham, Schmidt, Eisenstein, Harris, Anderson, **Hall**, Liebert, Schneider, Silvestri, Stinson & Wolfe, 2005, AJ, 130, 734-741
I contributed to identifying some of the unusual white dwarfs discussed in this paper.
- “The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release,” Schneider, **Hall** et al. 2005, AJ, 130, 367-380
I contributed greatly to the detailed evaluation of thousands of SDSS spectra needed to achieve high completeness and low contamination in this sample.
- “Discovery of a Fifth Image of the Large Separation Gravitationally Lensed Quasar SDSS J1004+4112,” Inada, Oguri, Keeton, Eisenstein, Castander, Chiu, **Hall**, Hennawi, Johnston, Pindor, Richards, Rix, Schneider & Zheng 2005, PASJ, 57, L7-L10
I contributed to the proposal for this project and to the discussion of the results.
- “Optically Identified BL Lacertae Objects from the Sloan Digital Sky Survey,” Collinge, M. J., Strauss, M. A., **Hall, P. B.**, Ivezić, Munn, Schlegel, Zakamska, Anderson, Harris, Richards, Schneider, Voges, York, Margon & Brinkmann 2005, AJ, 129, 2542-2561 [Erratum for Tables: AJ, 131, 3135 (2006)]
I contributed to the identification of candidate BL Lac objects from SDSS spectra.
- “An Empirical Calibration of the Completeness of the SDSS Quasar Survey,” Vanden Berk, Schneider, Richards, **Hall**, Strauss, Brunner, Fan, Baldry, York, Funn, Nichol, Meiksin & Brinkmann 2005, AJ, 129, 2047-2061
I contributed to the inspection and analysis of spectra obtained for this project.
- “Active Galactic Nuclei in the Sloan Digital Sky Survey I. Sample Selection,” Hao, Strauss, Tremonti, Schlegel, Heckman, Kauffmann, Blanton, Fan, Gunn, **Hall**, Ivezić, Knapp, Krolik, Lupton, Richards, Schneider, Strateva, Zakamska, Brinkmann, Brunner & Szokoly 2005, AJ, 129, 1795-1808
I contributed to assembling the SDSS quasar sample used for this project.
- “Active Galactic Nuclei in the Sloan Digital Sky Survey II. Emission-Line Luminosity Function,” Hao, Strauss, Fan, Tremonti, Schlegel, Heckman, Kauffmann, Blanton, Gunn, **Hall**, Ivezić, Knapp, Krolik, Lupton, Richards, Schneider, Strateva, Zakamska, Brinkmann & Szokoly 2005, AJ, 129, 1783-1794
I contributed to assembling the SDSS quasar sample used in this paper and to the discussion in it.
- “Discovery of Two Gravitationally Lensed Quasars with Image Separations of 3 Arcseconds from the Sloan Digital Sky Survey,” Oguri, Inada, Hennawi, Richards, Johnston, Frieman, Pindor, Strauss, Brunner, Becker, Castander, Gregg, **Hall**, Rix, Schneider, Bahcall, Brinkmann & York 2005, ApJ, 622, 106-115
I contributed to assembling the SDSS quasar sample used in this paper and to the discussion in it.
- “The Third Data Release of the Sloan Digital Sky Survey,” Abazajian et al. 2005, AJ, 129, 1755-1759
I contributed to the inspection of SDSS spectra for quasars, white dwarfs, and unusual objects.

- “Candidate Type II Quasars from the Sloan Digital Sky Survey: III. Spectropolarimetry Reveals Hidden Type I Nuclei,” Zakamska, Schmidt, Smith, Strauss, Krolik, **Hall**, Richards, Schneider, Brinkmann & Szokoly 2005, AJ, 129, 1212-1224
I was a co-investigator who contributed to the proposal for this project.
- “X-ray Insights Into Interpreting CIV Blueshifts and Optical/UV Continua,” Gallagher, Richards, **Hall**, Brandt, Schneider & Vanden Berk 2005, AJ, 129, 567-577
I contributed heavily to the analysis and interpretation in this paper, including calculating uncertainties on correlations discussed in it.
- “RCS043938-2904.9: A New Rich Cluster of Galaxies at $z = 0.951$,” Barrientos, Gladders, Yee, Infante, Ellingson, **Hall** & Hertling 2004, ApJL, 617, L17-L20
I participated in planning and obtaining the imaging data used for this project.
- “An Empirical Algorithm for Broad-band Photometric Redshifts of Quasars from the Sloan Digital Sky Survey,” Weinstein, Richards, Schneider, Younger, Strauss, **Hall**, Budavári, Gunn, York, & Brinkmann 2004, ApJS, 155, 243-256]]
I contributed to assembling the SDSS quasar sample used in this paper.
- “Spectral Classification of Quasars in the Sloan Digital Sky Survey First Data Release: Eigenspectra, Redshift and Luminosity Effects,” Yip, Connolly, Vanden Berk, Ma, Frieman, SubbaRao, Szalay, Richards, **Hall**, Schneider, Hopkins, Trump & Brinkmann 2004, AJ, 128, 2603-2630
I contributed to assembling the SDSS quasar sample used in this paper.
- “Dust Reddening in SDSS Quasars,” Hopkins, Strauss, **Hall**, Richards, Cooper, Schneider, Vanden Berk, Jester, Brinkmann & Szokoly 2004, AJ, 128, 1112-1123
I contributed heavily to the analysis and interpretation of results presented in this paper.
- “Nitrogen Enriched Quasars in the Sloan Digital Sky Survey First Data Release,” Bentz, **Hall** & Osmer 2004, AJ, 128, 561-568
- “A Quasar Without Broad Lyman- α Emission,” **Hall**, Snedden, Niederste-Ostholt, Eisenstein, Strauss, York & Schneider 2004, AJ, 128, 534-543
- “Microlensing of the Broad Emission Line Region in the Quadruple Lens SDSS J1004+4112,” Richards, Keeton, Pindor, Hennawi, **Hall**, Turner, Inada, Oguri, Ichikawa, Becker, Gregg, White, Wyithe, Schneider, Johnston, Frieman & Brinkmann 2004, ApJ, 610, 679-685
- “Detections of the 2175 Å Dust Feature at $1.4 \leq z \leq 1.5$ from the Sloan Digital Sky Survey,” Wang, **Hall**, Ge, Li & Schneider 2004, ApJ, 609, 589-596
- “The Second Data Release of the Sloan Digital Sky Survey,” Abazajian et al. 2004, AJ, 128, 502-512
- “A Lyman- α -only AGN from the Sloan Digital Sky Survey,” **Hall**, Hoversten, Tremonti, Vanden Berk, Schneider, Strauss, Knapp, York, Hutsemékers, Newman, Brinkmann, Frye, Fukugita, Glazebrook, Harvanek, Heckman, Ivezić, Kleinman, Krzesinski, Long, Neilsen, Niederste-Ostholt, Nitta, Schlegel & Snedden 2004, AJ, 127, 3146-3154
- “Conference Summary: AGN Physics with the Sloan Digital Sky Survey,” **Hall** & Richards 2004, PASP, 116, 593

- “SDSS J1335+0118: A New Two-Image Gravitational Lens,” Oguri, Inada, Castander, Gregg, Becker, Ichikawa, Pindor, Brinkmann, Eisenstein, Frieman, **Hall**, Johnston, Richards, Schechter, Schneider & Szalay 2004, PASJ, 56, 399-405
- “The Ensemble Photometric Variability of ~ 25000 Quasars in the Sloan Digital Sky Survey,” Vanden Berk, Wilhite, Kron, Anderson, Brunner, **Hall**, Ivezić, Richards, Schneider, York, Brinkmann, Lamb, Nichol & Schlegel 2004, ApJ, 601, 692-714
- “VLT+UVES Spectroscopy of the Low-Ionization Intrinsic Absorber in SDSS J001130.56+005550.7,” Hutsemékers, **Hall** & Brinkmann 2004, A&A, 415, 77-85 [Erratum: A&A, 422, 509]
- “Continuum and Emission Line Properties of Broad Absorption Line Quasars,” Reichard, Richards, **Hall**, Schneider, Vanden Berk, Fan, York, Knapp & Brinkmann 2003, AJ, 126, 2594-2607
- “The Sloan Digital Sky Survey Quasar Catalog II. First Data Release,” Schneider, Fan, **Hall** et al. 2003, AJ, 126, 2579-2593
- “The Host Galaxies of AGN,” Kauffmann, Heckman, Tremonti, Brinchmann, Charlot, White, Ridgway, Brinkmann, Fukugita, **Hall**, Ivezić, Richards & Schneider 2003, MNRAS, 346, 1055-1077
- “Mass and dust in the disk of a spiral lens galaxy,” Winn, **Hall** & Schechter 2003, ApJ, 597, 672-679
- “SDSS White Dwarfs with Spectra Showing Atomic Oxygen and/or Carbon Lines,” Liebert, Harris, Dahn, Schmidt, Kleinman, Nitta, Krzesinski, Eisenstein, Smith, Szkody, Hawley, Anderson, Brinkmann, Collinge, Fan, **Hall**, Knapp, Lamb, Margon, Schneider & Silvestri 2003, AJ, 126, 2521-2528
- “SDSS J0903+5028: A New Gravitational Lens,” Johnston, Richards, Frieman, Keeton, Strauss, Becker, White, Johnson, Ma, SubbaRao, Bahcall, Bernardi, Brinkmann, Eisenstein, Fukugita, **Hall**, Inada, Knapp, Pindor, Schlegel, Scranton, Sheldon, Schneider, Szalay & York 2003, AJ, 126, 2281-2290
- “A Large, Uniform Sample of X-ray Emitting AGN: Selection Approach and an Initial Catalog from the ROSAT All-Sky and Sloan Digital Sky Surveys,” Anderson, Voges, Margon, Trumper, Agueros, Boller, Collinge, Homer, Stinson, Strauss, Annis, Gomez, **Hall** et al. 2003, AJ, 126, 2209-2229
- “Candidate Type II Quasars from the Sloan Digital Sky Survey: I. Selection and Optical Properties of a Sample at $0.3 < z < 0.83$,” Zakamska, Strauss, Krolik, Collinge, **Hall**, Hao, Heckman, Ivezić, Richards, Schlegel, Schneider, Strateva, Vanden Berk, Anderson & Brinkmann 2003, AJ, 126, 2125-2144
- “The First Data Release of the Sloan Digital Sky Survey,” Abazajian et al. 2003, AJ, 126, 2081-2086

- “Double-Peaked Low-Ionization Emission Lines in Active Galactic Nuclei,” Strateva, Strauss, Hao, Schlegel, **Hall**, Gunn, Li, Ivezić, Richards, Zakamska, Voges, Anderson, Lupton, Schneider, Brinkmann & Nichol 2003, AJ, 126, 1720-1749 [Erratum: AJ, 130, 1961-1963 (2003)]
- “Gemini-South+FLAMINGOS Demonstration Science: Near-IR Spectroscopy of the $z = 5.77$ Quasar SDSS J083643.85+005453.3,” Stern, **Hall**, Barrientos, Bunker, Elston, Ledlow, Raines & Willis 2003, ApJL, 596, L39-L42
- “Magnetic White Dwarfs from the SDSS. The First Data Release,” Schmidt et al. 2003, ApJ, 595, 1101-1113
- “Red and Reddened Quasars in the Sloan Digital Sky Survey,” Richards, **Hall**, Vanden Berk, Strauss, Schneider, Weinstein, Reichard, York, Knapp, Fan, Ivezić, Brinkmann, Budavári, Csabai & Nichol 2003, AJ, 126, 1131-1147
- “An Initial Survey of White Dwarfs in the SDSS Sloan Digital Sky Survey,” Harris et al. 2003, AJ, 126, 1023-1040
- “SDSS J092455.87+021924.9: an Interesting Gravitationally Lensed Quasar from the Sloan Digital Sky Survey,” Inada, Becker, Burles, Castander, Eisenstein, **Hall** et al. 2003, AJ, 126, 666-674
- “The Incidence of Strong-Lensing Clusters in the Red-Sequence Cluster Survey,” Gladders, Hoekstra, Yee, **Hall** & Barrientos 2003, ApJ, 593, 48-55
- “**VLT+UVES Spectroscopy of the CaII Low-Ionization Broad Absorption Line Quasar SDSS J030000.56+004828.0,**” **Hall**, Hutsemékers, Anderson, Brinkmann, Fan, Schneider & York 2003, ApJ, 593, 189-202
- “Peculiar Broad Absorption Line Quasars Found in DPOSS,” Brunner, **Hall**, Djorgovski, Gal, Mahabal, Lopes, de Carvalho, Odewahn, Castro, Thompson, Chaffee, Darling & Desai 2003, AJ, 126, 53-62
- “Optical and NIR Observations of the Afterglow of GRB 020813,” Covino et al. 2003, A&AL, 404, L5-L9
- “A Catalog of Broad Absorption Line Quasars from the Sloan Digital Sky Survey Early Data Release,” Reichard, Richards, Schneider, **Hall**, Tolea, Krolik, Tsvetanov, Vanden Berk, York, Knapp, Gunn & Brinkmann 2003, AJ, 125, 1711-1728
- “Two Unusual Magnetic Cataclysmic Variables with Extreme Cyclotron Features Identified in the Sloan Digital Sky Survey,” Szkody, Anderson, Schmidt, **Hall** et al. 2003, ApJ, 583, 902-906
- “**2MASS 1315–2649: A High Proper Motion L Dwarf with Strong $H\alpha$ Emission,**” **Hall** 2002, ApJL, 580, L77-L78
- “The BTC40 Survey for Quasars at $4.8 < z < 6$,” Monier, E., Kennefick, J., **Hall**, **P. B.**, Osmer, P. S., Smith, M. & Green, R. 2002, AJ, 124, 2971-2979
- “Optical and Radio Properties of Extragalactic Sources Observed by the FIRST Survey and the Sloan Digital Sky Survey,” Ivezić, Ž, et al. 2002, AJ, 124, 2364-2400

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- **“The Redshift of a Lensing Galaxy in PMN J0134–0931,”** Hall, Richards, York, Keeton, Bowen, Schneider, Schlegel & Brinkmann 2002, ApJL, 575, L51-L54
- **“Unusual Broad Absorption Line Quasars in the Sloan Digital Sky Survey,”** Hall, P. B., et al. 2002, ApJS, 141, 267-309
- “An Unusual Iron LoBAL Quasar Detected by ISOCAM,” Duc, Hall, Fadda, Chaniel, Elbaz, Monaco, Pompei, Poggianti, Flores, Franceschini, Biviano, Moorwood & Cesarsky 2002, A&A, 389, L47-L50
- “Broad Emission Line Shifts in Quasars: An Orientation Measure for Radio-Quiet Quasars?,” Richards, G. T., Vanden Berk, D., Reichard, T., Hall, P. B., Schneider, D., SubbaRao, M., Thakar, A., & York, D. 2002, AJ, 124, 1-17
- “Spectroscopic Target Selection in the Sloan Digital Sky Survey: The Quasar Sample,” Richards, G. T. et al. 2002, AJ, 123, 2945-2975
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- **“2MASS J1315309–264951: An L Dwarf with Strong and Variable $H\alpha$ Emission,”** Hall, P. B. 2002, ApJL, 564, L89-L92
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- “Galaxy Groups at Intermediate Redshift,” Carlberg, R., et al. 2001, ApJ, 552, 427-444
- “Quasars in the 2MASS Second Incremental Data Release,” Barkhouse, W. A. & **Hall, P. B.** 2001, AJ, 121, 2843-2850 [Erratum for Figures: AJ, 122, 496]
- “Galaxies in the Fields of $z \sim 1.5$ Radio-Loud Quasars,” **Hall, P. B.**, Sawicki, M., Martini, P., Finn, R. A., Pritchett, C. J., Osmer, P. S., McCarthy, D. W., Evans, A. S., Lin, H., & Hartwick, F. D. A. 2001, AJ, 121, 1840-1862
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- “Blueshifting of CIV and the Baldwin Effect in 18,000 SDSS Quasars,” Kruczek et al. 2010, AAS meeting 215, #433.04
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- “Quasar Candidates in the Hubble Deep Field South,” Monier, E., Conti, A., Osmer, P., Kenefick, J., **Hall, P.B.**, & Smith, M. 1999, BAAS 195, 1398

- “Multi-Epoch Multiwaveband Spectra of 3C279,” Hartman, R.C., *et al.* 1999, BAAS 195, 1395
- “Properties of Candidate Cluster Galaxies at $z > 1$,” **Hall, P. B.** 1998, talk presented at the 13th Kingston Meeting on Theoretical Astrophysics: Galaxy Formation and Cosmic Star Formation History
- IAUC 6869 & 6870, 1998 April 7, recovery of Uranian moons S/1997 U 1 (Caliban) and S/1997 U 2 (Sycorax)
- IAUC 6852, 1998 March 28, optical counterpart of GRB 980326. Using the BTC on the CTIO 4-meter telescope with M. Smith (CTIO), I was part of the “large collaboration” which identified the optical counterpart of GRB 980326.
- “Big Faint Quasar Survey,” **Hall, P. B.**, Kennefick, J., Green, R. F., Osmer, P. S., & Smith, M. G. 1998, BAAS 191, 768.
- “Candidate High Redshift Clusters Around Radio Loud Quasars,” **Hall, P. B.** & Green, R. 1996, BAAS 28, 1287
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- “Observations of the Gravitational Lens System IRAS FSC 10214+4724,” **Hall, P. B.**, Close, L. M., Liu, C. T., & Hege, E. K. 1995, BAAS 27, 1212
- “Radio-Loud Quasar Environments from $z=0.6$ to $z=2.0$,” **Hall, P. B.** & Green, R. 1994, BAAS 26, 1504
- “A ROSAT Search for X-ray Emission from Quasar Host Clusters,” **Hall, P. B.**, Ellingson, E., Green, R. F., & Yee, H. K. C. 1994, BAAS 26, 960
- “First Results of A Deep Multicolor Survey For Quasars,” **Hall, P. B.**, Osmer, P. S., Green, R. F., Porter, A. C., & Warren, S. J. 1992, BAAS 24, 1136
- “A Spectrophotometric Study of Merging Galaxies,” Liu, C. T., Kennicutt, R. C., Jr., & **Hall, P. B.** 1992, BAAS 24, 1181
- “Optical polarimetry & photometry of PKS 2155-304 during the November 1991 IUE monitoring campaign,” Smith, P. S., Allen, R. G., **Hall, P. B.**, and Sitko, M. L. 1992, BAAS 24, 691
- “Faculty-Student Relationships: A Video Perspective,” The Steward Observatory Not Ready for Dark Time Players, 1991, BAAS 23, 1438

Other

- Two activities provided for *Astronomy In-Class Activities: Custom Edition for York University*, 2009, Pearson Custom Publishing

Education and Public Outreach

- Talk on "The Universe in 2009" at York University Dept. of Physics & Astronomy High School Science Teachers' Night, Fall 2009
- Solar System talk to two audiences at the David Dunlop Observatory, October 3, 2009
- Solar System talk to 6th grade students at Islington Junior Middle School, March 26, 2009
- Hosted American Astronomical Society Shapley Lecturer Dr. Niel Brandt for a public talk and a colloquium at York, January 2009
- Staffed Department of Physics & Astronomy booth at annual Canadian Undergraduate Physics Conference (one 3-hour shift), October 2008
- Staffed Faculty of Science & Engineering booth at Ontario Universities' Fair (one 3.5-hour shift), September 2008
- Quasars and Black Holes talk to amateur astronomers at the annual Huronia Star Party, August 30, 2008
- Solar System talk to 4th-8th grade students at King Edward Public School, June 12, 2008
- Invited Scientist, Royal Canadian Institute for the Advancement of Science Gala Fund-Raising Dinner, April 24, 2008
- Spearheading installation of approved U50 anniversary activity "A Scale Model of the Solar System at York," **January 2008 - present**
- Talk on 'Teaching the Big Bang' at Science Teachers' Association of Ontario (STAO) annual conference, Nov. 17, 2007
- Talk on 'Thinking about the Big Bang' to the Winnipeg chapter of the Royal Astronomical Society of Canada, October 2007
- Participant in the inaugural Youth Science and Technology Outreach Program "YSTOP @ York" Astronomy evenings for 8th-grade students, May 31 & June 3, 2007
- Conceived and organized the *Astronomy in Your Language* series of astronomy talks at York in four different languages, given by York faculty and graduate students, May 2007, featured in Y-File Apr. 23, 2007 — <http://www.yorku.ca/yfile/archive/index.asp?Article=8294> — and archived at <http://www.yorku.ca/phall/OUTREACH/>
- Chaired three-person science fact talk on Extrasolar Planets at Ad Astra annual science fiction fan conference in Toronto, Mar. 3, 2007
- Talk on Common Misconceptions in Astronomy at Science Teachers' Association of Ontario (STAO) annual conference, Nov. 16, 2006
- Solar System talk to 8th grade students visiting York University, Nov. 15, 2006
- Departmental representative at the York University Graduate Open House, Nov. 11, 2006

- Interviewed for, and quoted in, Toronto Star article ‘Star-gazers praise plan to fix flagging Hubble’, Nov. 1, 2006
- Solar System talk to 4-6th grade students at the Ontario Science Center, Oct. 26, 2006
- Solar System talk to students at Cornerstone Academy, May 8, 2006
- Participation in evening stargazing event and panel talk on Planetariums at Ad Astra annual science fiction fan conference in Toronto, Apr. 1, 2006
- Solar System talk to visiting 8th grade students at York University, Nov. 17, 2005
- Solar System talk to 4-6th grade students at the Ontario Science Center, Oct. 25, 2005
- Galaxies and Our Universe talk to visiting high school students at York University, Dec. 8, 2004
- Solar System talk to visiting grade 10 students at York University, Nov. 9, 2004
- Public Sloan Digital Sky Survey talk to York University Astronomy Club, Sept. 28, 2004

Scientific Papers, Proposals, and Funding Applications Refereed

- Paper for the Astrophysical Journal Letters, February 2008
- Paper for the Monthly Notices of the Royal Astronomical Society, January-February 2008
- One proposal for the Gemini International Telescopes, October 2007
- Paper for the Astrophysical Journal, January-May 2007
- Two proposals for the Gemini International Telescopes, April 2007
- One proposal for the Canada-France-Hawaii Telescope, April 2007
- Ontario Graduate Scholarship Panel Member, February 2007
- One proposal for the Gemini International Telescopes, October 2006
- One proposal for the Canada-France-Hawaii Telescope, October 2006
- Ontario Graduate Scholarship Panel Member, February 2006
- One proposal for the Gemini International Telescopes, April 2006
- One proposal for the Canada-France-Hawaii Telescope, April 2006
- One NSERC Discovery Grant proposal, January 2006
- Paper for the Astrophysical Journal, June-December 2005
- Paper for the Revista Mexicana de Astronomía y Astrofísica, March-October 2005
- One proposal for the Canada-France-Hawaii Telescope, October 2005

- Two proposals for the Gemini International Telescopes, October 2005
- Two proposals for the James Clerk Maxwell Telescope, April 2005
- One proposal for the Canada-France-Hawaii Telescope, April 2005
- One proposal for the Gemini International Telescopes, April 2005
- Paper for Astronomy & Astrophysics Letters, December 2004 - February 2005
- Paper for Astrophysical Journal Letters, December 2004
- Paper for Astrophysical Journal, September-December 2004
- One proposal for the Gemini International Telescopes, October 2004

Invited Colloquia and Seminars

- St. Mary's University, October 2008
- Queen's University, September 2008
- University of Manitoba, October 2007
- Michigan State University, April 2007
- University of Oklahoma, April 2005
- University of Waterloo, March 2005
- University of Virginia, March 2004
- Leiden University, February 2004
- University of Notre Dame, January 2004
- York University, December 2003
- University of Wyoming, October 2003
- Penn State University, September 2003
- University of Toronto, May 2003
- State University of New York at Stony Brook, April 2003
- Universidad de Chile, April 2002
- Astronomy Department, American Museum of Natural History, November 2000
- Ohio State University, May 1999
- University of Toronto, September 1998

- Lawrence Livermore National Laboratory, January 1997

Memberships in Professional and Related Societies

- Royal Astronomical Society of Canada **(2008-present)**
- International Astronomical Union **(2003-present)**
- Sociedad Chilena de Astronomía (2002-2004)
- Canadian Astronomical Society **(1998-present)**
- Astronomical Society of the Pacific **(1996-present)**
- American Astronomical Society **(1991-present)**