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University of Virginia Library
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EDUCATION

University of Virginia, Charlottesville VA

Ph.D. in Astronomy, 1995

Dissertation: "An Optical Study of Dwarf Galaxies with Narrow HI linewidths: Dark Matter and the Tully-Fisher Relation at the Faint End"

University of Virginia, Charlottesville VA

M.A. in Astronomy, 1989

Thesis: "A Hyades Distance Modulus Determined by Trigonometric Parallaxes from both the Northern and Southern Hemispheres"

University of Virginia, Charlottesville VA

B.A. in Astronomy-Physics, 1984

Echols Scholar

EMPLOYMENT

2018-PRESENT Assoc. Dir., Campus Partnerships & Services, Research Data Services, University of Virginia Library

2015-2018 Research Librarian for Science and Engineering, University of Virginia Library

2013-2015 Data Consultant, Research Data Services, University of Virginia Library

2012-2015 Lecturer, University of Virginia

2002-2015 Senior Scientist, Department of Astronomy, University of Virginia

1998-2002 Research Scientist, Department of Astronomy, University of Virginia

1996-1998 Research Associate, Department of Astronomy, University of Virginia

1996-1997 Visiting Scholar, Mount Stromlo Observatory, Australian National University

GRANTS

As PI

- "Fundamental Properties of Northern and Southern Hemisphere Stars" NSF AST-9820711, \$330,000 (1999-2005)
- "An Astrometric Calibration of the Cepheid Period-Luminosity Relation" NASA STScI GO-10106, \$20,158 (2003-2004)

As Co-PI

- "A Survey of Distant Halo Giant Stars for the SIM Astrometric Grid" NASA/JPL 1201670, \$250,000 (1999-2001)
- "The Grid Giant Star Survey for the SIM Astrometric Grid: Northern Hemisphere Extension" NASA/JPL 1222563 \$430,755 (2000-2002)
- "Taking Measure of the Milky Way: A Key Project for the Space Interferometry Mission" NASA/JPL 1228235, \$2,989,785 (2001-2012)
- "Explorations of the Milky Way's 'New' Halo" NSF AST-0307851, \$390,000 (2003-2006)
- "Collaborative Research: Probing Phase-Space Structure in the Galaxy: Kapteyn's Selected Areas" NSF AST-0407207, \$228,361 (2004-2008)
- "Lifting the Dusty Veil with Spitzer" NASA/Spitzer Observatory, Program 20499, \$71,749 (2005-2008)
- "Collaborative Research: The Assembly History of the Andromeda Spiral Galaxy" NSF AST-0607726, \$192,645 (2006-2010)
- "Galactic Structure and Star Formation in Vela-Carina" NASA/Spitzer Observatory, Program 40791, \$102,000 (2007-2010)
- "Dissecting the Sub-structure Halo" NSF AST-0807945, \$748,432 (2008-2013)
- "Collaborative Research: M31 Satellites Past and Present" NSF AST-1009882, \$48,684 (2010-2014)
- "Collaborative Research: Age-Dating M31's Halo and Satellites – Testing the Lambda CDM Paradigm" NSF AST-1413269, \$436,757 (2014-2017)

COMPUTER SKILLS

OPERATING SYSTEMS

- UNIX/Linux and Mac OS X- User and System Administrator (for network of 80+ linux systems)
- Windows - User and some System Administration Experience

PRODUCTIVITY SOFTWARE

- Microsoft Office (Word, Excel, PowerPoint, Outlook), and SharePoint
- Google Forms, Docs, Sheets, Calendar
- Atlassian Confluence and Jira
- OpenOffice/LibreOffice
- Adobe (Acrobat, Illustrator, Photoshop, InDesign, Dreamweaver)
- Collab, Dropbox, Google Drive, OneDrive, Box, Git, Github
- Open Science Framework – (Trainer, and COS ambassador)

SCIENTIFIC AND UTILITY SOFTWARE

- Extensive experience with LaTeX, ShareLaTeX, Overleaf, IRAF, Emacs, Perl, Fortran, MySQL/PHP
- Some experience with Matlab, Python, IDL, R, C, PGPLOT, CFITSIO, Dedoose, Tableau

DATABASE MANAGEMENT SYSTEMS

- Extensive experience with MySQL
- Some experience with other forms of SQL, SAS, Filemaker Pro, Microsoft Access

TEACHING AND OUTREACH

- Research Data Services Workshops (3-4 per semester) on topics such as Introduction to Unix, Introduction to LaTeX (and ShareLaTeX/Overleaf), Funding Discovery Tools, Introduction to ORCID. Introduction to Git/GitHub/GitLab
- Offering a workshop on the Open Science Framework (after completing a two day Train the Trainer session at the Center for Open Science) in coordination with the Data Science Institute and the University Library in Spring 2018.
- Worked with Library colleagues as well as Margo Smith, director of the Kluge-Ruhe Aboriginal Art Collection, and Stephen Macko, Professor of Environmental Sciences, for a successful opening presentation for the Ghost Nets exhibit in Brown Science and Engineering Library, at the start of the Fall 2017 semester. The presentation, featuring talks by both Margo Smith and Stephen Macko highlighted both the art and the science behind the exhibit, which brought together a diverse audience.
- Working with Library IT to maintain and upgrade the NASA/ViewSpace video presentation on the first floor of Brown SEL.
- Organized "sold-out" presentation by Ed Murphy on the August 2017 Solar Eclipse in Harrison Auditorium.
- Worked with library colleagues in Scholarly Communications, Collections and other areas to organize and host Endangered Data Week events in the library (April 17-21, 2017). Recruited speakers for five local events (Libra Data, Git/Github, DocNow, Webscraping with R, and Preserving Artifacts and Architecture), and hosted an EDW webinar.
- Worked closely with the VPR office and Health Sciences Library to develop training materials for the funding discovery tools, Pivot and Grant Forward (summer 2016). Continued to offer workshops on using the tools, in coordination with both the VPR office and HSL.
- Hosted astronomy-themed events at the past two Library Winter Carnivals (solar observing, and planetarium tour); planning another planetarium tour for 2018.
- Hosted two Library family nights at McCormick Observatory, with viewing through the large telescope, and a tour of the night sky.
- Science and Society 1st Year orientation sessions (2-3 per semester, assisting Maggie Nunley)
- Patent Instruction sessions (for Science and Society students) (2/semester, assisting Maggie Nunley)
- Recorded short orientation video (for Harrison/Small space) for Science and Society 1st Year orientation with the Aurasma app.
- USEM 1570 – MEASURING THE STARS (co-taught with Ed Murphy in Fall 2016 and upcoming Spring 2018)
- ASTR 1210 – INTRODUCTION TO THE NIGHT SKY AND SOLAR SYSTEM (5 semesters)
- ASTR 1230 – INTRODUCTION TO ASTRONOMICAL OBSERVATIONS (3 semesters)
- USEM 1570 – Re-Journey to Mount Jefferson, co-taught in Spring 2013 with Nancy Takahashi (Architecture), Garth Anderson (Facilities Resource Center), Jeff Sittler (FM), Julia Monteith (Office of the Architect) and others.
- OLLI at UVA (Osher Lifelong Learning Institute) – CURRENT TOPICS IN ASTRONOMY (2 semesters)
- Host students from Jerry Stenger's OLLI class on weather forecasting for a tour of the McCormick Observatory weather station.

- Numerous classes and lectures at McCormick Observatory, with audiences of different backgrounds, ranging from preschool, through K-12, undergrad, graduate students, University staff, alumni, and other lifelong learners.
- Data Management Workshops in Fall 2013 and Spring 2014, targeting graduate students and early career researchers
- Presentation on Data Management for Daphna Bassock's EDLF 5310 DATA MANAGEMENT FOR SOCIAL SCIENCE RESEARCH class (Fall 2013, with Michele Claibourn)
- Two presentations on Data Management for Nitya Kallivayalil's ASTR 8500 CURRENT ASTRONOMICAL TOPICS (Spring 2014, with Sherry Lake)
- Assisted with in-class exercises for the Data Management Bootcamp (January 2014, January 2015)
- SEAS Graduate Student Seminar on Best Practices in Data Management (Spring 2014, with Sherry Lake)
- Hosted a "Microcinema" at McCormick Observatory for the 2008 "Aliens"-themed Virginia Film.
- Coordinated "Under Southern Skies" exhibit at McCormick Observatory in partnership with the Kluge-Ruhe Aboriginal Art Collection, pairing aboriginal art with scientific photographic views of the night sky.
- Virginia Space Grant Consortium: Reviewed UVa Engineering student proposals.
- Teaching Resource Center: Judged University-wide Teaching Assistant awards.
- Judged Graduate student presentations at a number of Huskey Graduate Student Research Exhibitions.
- LSAMP – Assisted with the mentoring astronomy students in the Louis Stokes Alliance for Minority Participation; Judged LSAMP student presentations.
- Worked on the Education and Public Outreach NSF Communication Research to a Public Audience (CRPA) proposal for the Center for the Chemistry of the Universe center with colleagues from Chemistry, Curry, NRAO, and the Diversity Office. Working on implementation of the awarded proposal this summer.
- ExxonMobile Bernard Harris Summer Science Camp – Worked with the Center for Diversity in Engineering to host this group at McCormick Observatory each summer, and have taught lessons in to this group in Thornton Hall.
- Assisted with the BLAST (Building Leaders for Advancing Science and Technology) Program. The program reaches 160 middle school students from across Virginia working on STEM projects with faculty and grad students in Astronomy, Chemistry, Physics and Mechanical Engineering during a 4-day visit to UVa.

LIBRARY

- Liaison for the departments of Astronomy (2015-present), Chemical Engineering (2015), Chemistry (2015), Electrical and Computer Engineering (2015-2017), Environmental Sciences (2016-present), Mathematics (2015-present), Physics (2018-present) and Mechanical and Aerospace Engineering (2015-2017).
- Worked with faculty and graduate students in a number of departments to assist them in developing and implement data management plans for grant-funded research.
- As part of Research Software Support, worked with users in different disciplines (Radiology, Environmental Sciences, Engineering Physics, Chemistry and Astronomy) to help them all migrate to a new license server for IDL (imaging processing software from Exelis).
- Worked with University Library administration and vendor to purchase a university-wide site license for ShareLaTeX, a collaborative LaTeX editing platform. Provide support and training for university community in the use of ShareLaTeX, and working with the vendor after the merger of ShareLaTeX and Overleaf to ensure a smooth transition for current ShareLaTeX and Overleaf users at the university.
- Worked with Library Administration to ensure UVa Library participation (by Chip German) in the Libraries+ Network May 8-9, 2017 meeting to discuss and plan for the long-term preservation and access of federally produced data.
- Chaired the search committee for a new Social Sciences Research Librarian (2017).
- Chaired the search committee for a new Education Research Librarian (2018).
- Working with Special Collections and the Department of Astronomy on a plan to process materials from the department and McCormick Observatory.
- Working with the DPG, Preservation and Special Collections on scanning and preserving some 19th century materials from McCormick Observatory, for use in an upcoming exhibit at the observatory

UNIVERSITY COMMITTEES

- General Faculty Council (2007-2013)
 - General Faculty Council Chair (2010-2011)
 - Data Management Committee Chair (2008-2013)
 - GFC Representative on Employee Council Parking Committee (2007-2008) – this work led to a meeting with Leonard Sandridge which helped in a small way to bring about the Supplemental Benefit Credit (current employees making \$42,000 or less receive a \$450 annual benefit credit to help offset the costs of benefits).
 - Joint Faculty Senate-GFC Committee on Expectation of Continued Employment (2008)

- Policy Committee of the Faculty Senate (2011-2015)
- Diversity Council (2010-2011)
- Environmental Impact Subcommittee of the University Committee on Sustainability (2012-present)
 - Co-chair of the Light Pollution Working Group (2012-present)
- Provost's and Human Resources Committee on Professional Research Staff (2010-2015)
- UVa Historically Black Colleges and Universities Planning Committee (2010-2011)
- Computing Sciences Advisory Committee (2014)
- Astronomy Department Local Observatories Committee, Chair (2000-2016)
- Astronomy Department Library Committee, Chair (2006-present)
- Astronomy Department Public Night Committee (2000-2016)
- Astronomy Department Computing Committee (2004-2016)
- University Library, Research and Scholarship Area of Focus (2014-2016)
- University Library, Research Partners Pilot (2014-2015)
- University Library, Faculty Collections Survey group (2017)
- University Library, Social Sciences Research Librarian Search Committee, Chair (2017)
- University Library, Sustainability Working Group (2017-2018)
- University Library, Open Access Journal Publishing Implementation Team (2017-2018)
- University Committee on Sustainability (2019-)

OTHER SERVICE WITHIN THE UNIVERSITY

- Facilities Management Facility Coordinator (13 buildings)
- Record and report daily weather observations for the National Weather Service at the McCormick Observatory "Charlottesville 2W" station (in operation since 1890). Share data with the State Climatology Office, Facilities Management and the local media (2002-present).
- Have worked with HBCU Norfolk State University and the Provost's Office to construct and bring into operation NSU's robotic telescope located at UVa's Fan Mountain Observatory.
- Reviewer of all Facilities Management Construction Projects to assess the potential contribution to light pollution.
- Revised the Facility Design Guidelines to lessen the impact of building interior lighting on the night sky.
- Helped to develop and review the Office of the Architect's University Exterior Lighting Plan.
- Worked with the Office of the Architect and the Landscape and Arboretum Committee to fund and develop an Historic Landscape Plan for the area atop Observatory Mountain (2016-2017).
- Working with Director of Historic Preservation Program, Andrew Johnston and several of his students on background research on project to obtain National Landmark listing for McCormick Observatory (2015-2018)
- Working with Historic Preservation personnel in Facilities Management, Office of the Architect and the School of Architecture on the Historic Structures Report for "Alden House," the Observatory Director's House on Observatory Mountain (2017-2018)

SUPERVISORY WORK

- Served as the supervisor for 6 data analysts in the Department of Astronomy (1999-2015). This involved hiring, onboarding, weekly meetings, and working with each one to allow for professional development, and encourage a career path on to graduate school and work as a professional astronomer/physicist for those wishing to pursue that career (three have since earned their PhDs and are working in the field, while the other three choose to pursue other career paths, one is still working in the Astronomy Department). I also co-supervised 4 postdoctoral scholars during this same period.
- Served as an informal supervisor for the 16 graduate students in our research group, as well as the 20 undergraduate students to work on research projects with the group. This included training them in observational techniques while on an observing run, as well as data reduction and analysis techniques back in Charlottesville. However, it also involved offering career mentoring for a number of students as they struggled with the decision to remain in graduate school or to pursue a job. While it wasn't called for often, I feel that this was some of the most meaningful work that I did in this role – helping the student to step back and find some space so they can determine whether they really wanted to pursue a PhD at this point.
- Serving as supervisor for 3 members of the Research Data Services team within the University Library.

PROFESSIONAL ACTIVITIES AND SERVICE

- Science Team Member, NASA's Space Interferometry Mission (2000-2010)
- Division of Dynamical Astronomy, Student Fellowship Review Committee (2008, 2009)
- NSF Review Panelist, MPS-AST, Stellar Astronomy & Astrophysics Panel (2002)
- Virginia Space Grant Consortium, Session Chair and Judge of Student Presentations
- NASA/JPL Reviewer SIMLite Proposals (2009)
- AAS SIMLite Special Session, Chair (2010)
- AAS Workshop on Preserving Astronomical Photographic Data, Invited Participant (2007)
- AAS/IAU North American Astronomical Plates Census Committee, Member (2007-2008)
- AAS/AIP Workshop on A Plan for Preserving Astronomy's Archival Records. Invited participant (2012)
- AAS Working Group on the Preservation of Astronomical Heritage (2018-Present)
- **Member:** American Astronomical Society; AAS - Division of Dynamical Astronomy; AAS - History of Astronomy Division

PUBLICATONS: BOOK CHAPTER

"*Data Management*", Sallans, A. L. and Patterson, R. J. 2015, in *Implementing a Comprehensive Research Compliance Program: A Handbook for Research Officers*, ed. A. Dade, L. Olafson, and S. M. DiBella (Charlotte, NC: Information Age Publishing).

REFEREED PUBLICATIONS

"*Testing Metal-Poor Stellar Models and Isochrones with HST Parallaxes of Metal-Poor Stars*", Chaboyer, B., McArthur, B. E., O'Malley, E., Benedict, G. F., Feiden, G. A., Harrison, T. E., McWilliam, A., Nelan, E. P., Patterson, R. J., and Sarajedini, A. 2017, *The Astrophysical Journal*, 835, 152, 24 pages.

"*Global Properties of M31's Stellar Halo from the SPLASH Survey. II. Metallicity Profile*", Gilbert, K. M., Kalirai, J. S., Guhathakurta, P., Beaton, R. L., Geha, M. C., Kirby, E. N., Majewski, S. R., Patterson, R. J., Tollerud, E. J., Bullock, J. S., Tanaka, M., and Chiba, M. 2014, *The Astrophysical Journal*, 796, 76, 20 pages.

"*Open Clusters in the Milky Way Outer Disk: Newly Discovered and Unstudied Clusters in the Spitzer GLIMPSE-360, CYG-X, and SMOG Surveys*", Zasowski, G., Beaton, R. L., Hamm, K. K., Majewski, S. R., Babler, B., Benjamin, R. A., Churchwell, E., Meade, M., Patterson, R. J., Watson, C., and Whitney, B. A. 2013, *The Astronomical Journal*, 146, 64, 20 pages.

"*Identifying Contributions to the Stellar Halo from Accreted, Kicked-out, and In Situ Populations*", Sheffield, A. A., Majewski, S. R., Johnston, K. V., Cunha, K., Smith, V. V., Cheung, A. M., Hampton, C. M., David, T. J., Wagner-Kaiser, R., Johnson, M. C., Kaplan, E., Miller, J., and Patterson, R. J. 2012, *The Astrophysical Journal*, 761, 161, 16 pages.

"*Global Properties of M31's Stellar Halo from the SPLASH Survey. I. Surface Brightness Profile*", Gilbert, K. M., Guhathakurta, P., Beaton, R. L., Bullock, J., Geha, M. C., Kalirai, J. S., Kirby, E. N., Majewski, S. R., Ostheimer, J. C., Patterson, R. J., Tollerud, E. J., Tanaka, M., and Chiba, M. 2012, *The Astrophysical Journal*, 760, 76, 21 pages.

"*A 2MASS All-sky View of the Sagittarius Dwarf Galaxy. VII. Kinematics of the Main Body of the Sagittarius dSph*", Frinchaboy, P. M., Majewski, S. R., Muñoz, R. R., Law, D. R., Łokas, E. L., Kunkel, W. E., Patterson, R. J., and Johnston, K. V. 2012, *The Astrophysical Journal*, 756, 74, 19 pages.

"*The SPLASH Survey: Spectroscopy of 15 M31 Dwarf Spheroidal Satellite Galaxies*", Tollerud, E. J., Beaton, R. L., Geha, M. C., Bullock, J. S., Guhathakurta, P., Kalirai, J. S., Majewski, S. R., Kirby, E. N., Gilbert, K. M., Yniguez, B., Patterson, R. J., Ostheimer, J. C., Cooke, J., Dorman, C. E., Choudhury, A., and Cooper, M. C. 2012, *The Astrophysical Journal*, 752, 45, 29 pages.

"*Exploring Halo Substructure with Giant Stars: Substructure in the Local Halo as Seen in the Grid Giant Star Survey Including Extended Tidal Debris from ω Centauri*", Majewski, S. R., Nidever, D. L., Smith, V. V., Damke, G. J., Kunkel, W. E., Patterson, R. J., Bizyaev, D., and García Pérez, A. E. 2012, *The Astrophysical Journal Letters*, 747, 37, 6 pages.

"*Kinematics and Chemistry of Stars along the Sagittarius Trailing Tidal Tail and Constraints on the Milky Way Mass Distribution*", Carlin, J. C., Majewski, S. R., Casetti-Dinescu, D. I., Law, D. R., Girard, T. M., and Patterson, R. J. 2012, *The Astrophysical Journal*, 744, 25, 29 pages.

"*Discovery of a Large Stellar Periphery Around the Small Magellanic Cloud*", Nidever, D. L., Majewski, S. R., Muñoz, R. R., Beaton, R. L., Patterson, R. J., and Kunkel, W. E. 2011, *The Astrophysical Journal Letters*, 733, 10, 6 pages.

"*The Frequency of Rapid Rotation Among K Giant Stars*", Carlberg, J. K., Majewski, S. R., Patterson, R. J., Bizyaev, D., Smith, V. V., and Cunha, K. 2011, *The Astrophysical Journal*, 732, 39, 10 pages.

- "*First Chemical Analysis of Stars in the Triangulum--Andromeda Star Cloud*," Chou, M.-Y., Majewski, S. R., Cunha, K., Smith, V., Patterson, R. J., and Martínez-Delgado D. 2011, *The Astrophysical Journal Letters*, 731, L30, 6 pages.
- "*The Chemical Evolution of the Monoceros Ring/Galactic Anticenter Stellar Structure*," Chou, M.-Y., Majewski, S. R., Cunha, K., Smith, V., Patterson, R. J., and Martínez-Delgado D. 2010, *The Astrophysical Journal Letters*, 720, L5-L10
- "*The SPLASH Survey: Internal Kinematics, Chemical Abundances, and Masses of the Andromeda I, II, III, VII, X, and XIV Dwarf Spheroidal Galaxies*," Kalirai, J. S., Beaton, R. L., Geha, Marla, C., Gilbert, K. M., Guhathakurta, P., Kirby, E. N., Majewski, S. R., Ostheimer, J. C., Patterson, R. J., and Wolf, J. 2010, *The Astrophysical Journal*, 711, 671-692
- "*A Two Micron All Sky Survey View of the Sagittarius Dwarf Galaxy. VI. s-Process and Titanium Abundance Variations Along the Sagittarius Stream*," Chou, M.-Y., Cunha, K., Majewski, S. R., Smith, V., Patterson, R. J., Martínez-Delgado, D., and Geisler, D. 2010, *The Astrophysical Journal*, 708, 1290-1309
- "*Lifting the Dusty Veil with Near- and Mid-Infrared Photometry. II. A Large-Scale Study of the Galactic Infrared Extinction Law*," Zasowski, G., Majewski, S. R., Indebetouw, R., Meade, M. R., Nidever, D. L., Patterson, R. J., Babler, B., Skrutskie, M. F., Watson, C., Whitney, B. E., and Churchwell, E. 2009, *The Astrophysical Journal*, 707, 510-523
- "*Astrometry with the Hubble Space Telescope: Trigonometric Parallaxes of Planetary Nebula Nuclei NGC 6853, NGC 7293, Abell 31, and DeHt 5*," Benedict, G. F., McArthur, B. E., Napiwotzki, R., Harrison, T. E., Harris, H. C., Nelan, E., Bond, H. E., Patterson, R. J., and Ciardullo, R. 2009, *The Astronomical Journal*, 138, 1969-1984
- "*The Carnegie Astrometric Planet Search Program*," Boss, A. P., Weinberger, A. J., Anglada-Escudé, G., Thompson, I. B., Burley, G., Birk, C., Pravdo, S. H., Shaklan, S. B., Gatewood, G. D., Majewski, S. R., and Patterson, R. J., 2009, *Publications of the Astronomical Society of the Pacific*, 121, 1218-1231
- "*The Splash Survey: A Spectroscopic Portrait of Andromeda's Giant Southern Stream*," Gilbert, K. M., Guhathakurta, P., Kollipara, P., Beaton, R. L., Geha, M. C., Kalirai, J. S., Kirby, E. N., Majewski, S. R., and Patterson, R. J. 2009, *The Astrophysical Journal*, 805, 1275-1297
- "*Kinematics of Stars in Kapteyn Selected Area 71: Sampling the Monoceros and Sagittarius Tidal Streams*," Casetti-Dinescu, D. I., Carlin, J. L., Girard, T. M., Majewski, S. R., Peñarrubia, J. and Patterson, R. J., 2008, *Astronomical Journal*, 135, 2013-2023
- "*Taking the Measure of the Universe: Precision Astrometry with SIM PlanetQuest*," Unwin, S. C., Shao, M., Tanner, A. M., Allen, R. J., Beichman, C. A., Boboltz, D., Catanzarite, J. H., Chaboyer, B. C., Ciardi, D. R., Edberg, S. J., Fey, A. L., Fischer, D. A., Gelino, C. R., Gould, A. P., Grillmair, C., Henry, T. J., Johnston, K. V., Johnston, K. J., Jones, D. L., Kulkarni, S. R., Law, N. M., Majewski, S. R., Makarov, V. V., Marcy, G. W., Meier, D. L., Olling, R. P., Pan, X., Patterson, R. J., Pitesky, J. E., Quirrenbach, A., Shaklan, S. B., Shaya, E. J., Strigari, L. E., Tomsick, J. A., Wehrle, A. E. and Worthey, G., 2008, *Publications of the Astronomical Society of the Pacific*, 120, 38-88
- "*Unveiling the Boxy Bulge and Bar of the Andromeda Spiral Galaxy*," Beaton, R. L., Majewski, S. R., Guhathakurta, P., Skrutskie, M. F., Cutri, R. M., Good, J., Patterson, R. J., Athanassoula, E. and Bureau, M., 2007, *Astrophysical Journal*, 658, L91-L94
- "*Hubble Space Telescope Fine Guidance Sensor Parallaxes of Galactic Cepheid Variable Stars: Period-Luminosity Relations*," Benedict, G. F., McArthur, B. E., Feast, M. W., Barnes, T. G., Harrison, T. E., Patterson, R. J., Menzies, J. W., Bean, J. L. and Freedman, W. L., 2007, *Astronomical Journal*, 133, 1810-1827
- "*A 2MASS All-Sky View of the Sagittarius Dwarf Galaxy. V. Variation of the Metallicity Distribution Function along the Sagittarius Stream*," Chou, M., Majewski, S. R., Cunha, K., Smith, V. V., Patterson, R. J., Martínez-Delgado, D., Law, D. R., Crane, J. D., Muñoz, R. R., García López, R., Geisler, D. and Skrutskie, M. F., 2007, *Astrophysical Journal*, 670, 346-362
- "*Stellar Kinematics in the Complicated Inner Spheroid of M31: Discovery of Substructure along the Southeastern Minor Axis and Its Relationship to the Giant Southern Stream*," Gilbert, K. M., Fardal, M., Kalirai, J. S., Guhathakurta, P., Geha, M. C., Isler, J., Majewski, S. R., Ostheimer, J. C., Patterson, R. J., Reitzel, D. B., Kirby, E. and Cooper, M. C., 2007, *Astrophysical Journal*, 668, 245-267
- "*Discovery of Andromeda XIV: A Dwarf Spheroidal Dynamical Rogue in the Local Group?*" Majewski, S. R., Beaton, R. L., Patterson, R. J., Kalirai, J. S., Geha, M. C., Muñoz, R. R., Seigar, M. S., Guhathakurta, P., Gilbert, K. M., Rich, R. M., Bullock, J. S. and Reitzel, D. B., 2007, *Astrophysical Journal*, 670, L9-L12

"Exploring Halo Substructure with Giant Stars. X. Extended Dark Matter or Tidal Disruption?: The Case for the Leo I Dwarf Spheroidal Galaxy," Sohn, S. T., Majewski, S. R., Muñoz, R. R., Kunkel, W. E., Johnston, K. V., Ostheimer, J. C., Guhathakurta, P., Patterson, R. J., Siegel, M. H. and Cooper, M. C., 2007, *Astrophysical Journal*, 663, 960-989

"The Space Interferometry Mission Astrometric Grid Giant Star Survey. I. Stellar Parameters and Radial Velocity Variability," Bizyaev, D., Smith, V. V., Arenas, J., Geisler, D., Majewski, S. R., Patterson, R. J., Cunha, K., Del Pardo, C., Suntzeff, N. B. and Gieren, W., 2006, *Astronomical Journal*, 131, 1784-1796

"A Deep Proper-Motion Survey in Kapteyn Selected Areas. I. Survey Description and First Results for Stars in the Tidal Tail of Sagittarius and in the Monoceros Ring," Casetti-Dinescu, D. I., Majewski, S. R., Girard, T. M., Carlin, J. L., van Altena, W. F., Patterson, R. J. and Law, D. R., 2006, *Astronomical Journal*, 132, 2082-2098

"A New Method for Isolating M31 Red Giant Stars: The Discovery of Stars out to a Radial Distance of 165 kpc," Gilbert, K. M., Guhathakurta, P., Kalirai, J. S., Rich, R. M., Majewski, S. R., Ostheimer, J. C., Reitzel, D. B., Cenarro, A. J., Cooper, M. C., Luine, C. and Patterson, R. J., 2006, *Astrophysical Journal*, 652, 1188-1212

"Dynamics and Stellar Content of the Giant Southern Stream in M31. I. Keck Spectroscopy of Red Giant Stars," Guhathakurta, P., Rich, R. M., Reitzel, D. B., Cooper, M. C., Gilbert, K. M., Majewski, S. R., Ostheimer, J. C., Geha, M. C., Johnston, K. V. and Patterson, R. J., 2006, *Astronomical Journal*, 131, 2497-2513

"The Metal-poor Halo of the Andromeda Spiral Galaxy (M31)," Kalirai, J. S., Gilbert, K. M., Guhathakurta, P., Majewski, S. R., Ostheimer, J. C., Rich, R. M., Cooper, M. C., Reitzel, D. B. and Patterson, R. J., 2006, *Astrophysical Journal*, 648, 389-404

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