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RESEARCH INTERESTS

- Exoplanets around evolved stars and the interplay between stellar evolution and exoplanet orbit evolution.
- Characterizing stellar properties with ultraviolet, optical, and infrared spectroscopy.

EDUCATION

- **University of Virginia, Charlottesville, VA**
Ph.D. in Astronomy 2011
M.S. in Astronomy 2006
- **Villanova University, Villanova, PA**
B.S. in Astronomy & Astrophysics, *Summa Cum Laude* 2004
Minors in Physics and Cognitive Science, Honors Concentration

PROFESSIONAL EXPERIENCE

- **Milky Way Mapper Target and Cadence Coordinator for SDSS-V** Oct. 2019 – present
Plan, assess, and optimize survey strategy between Milky Way Mapper science groups; design and monitor survey success metrics.
- **STScI Scientist** 2016 – present
Space Telescope Science Institute
Responsible for managing and reporting on the operation and calibration of all aspects of the STIS instrument; review proposed UV observations for safety.
Current Roles: STIS Branch Manager
Recent Roles: STIS User Support Lead, ULLYSES Core Implementation Team
- **NASA Postdoctoral Program Fellow** 2014–2016
NASA Goddard Space Flight Center, Mentor: Dr. Kenneth Carpenter
Studying the origins of Li-rich red giants with open clusters, testing the planet engulfment hypothesis with near-ultraviolet spectroscopy, and target selection for APOGEE 2 substellar companion search project.
- **Vera Rubin Postdoctoral Fellow in Astronomy** 2011–2014
Carnegie Institution of Washington, Mentor: Dr. Alycia Weinberger
Surveying open cluster red giants for rapid rotation, making detailed abundance measurements of red giants, working on multiple SDSS-III APOGEE projects, and verifying new open cluster candidates in the Milky Way disk.
- **Graduate Research Assistant** 2004–2011
University of Virginia, Advisor: Dr. Steven Majewski
Ph.D. Thesis: “Assimilation of Planets by Red Giant Stars”
Modeled evolution of planet hosting dwarf stars, studied rotation and abundances of field red giants, searched for Galactic substructure traced by M giants, and simulated binary star populations for APOGEE survey planning.

PUBLICATION SUMMARY

- Ten first-author publications in refereed journals
- Nineteen co-author publications in refereed journals
- Full publication list at the end of this CV

FELLOWSHIPS & AWARDS

- NASA Postdoctoral Program Fellow, NASA/GSFC 2014–2016
- *Vera Rubin* Postdoctoral Fellow in Astronomy, Carnegie DTM 2011–2014
- NASA Earth and Space Science Fellowship 2008–2011
- Virginia Space Grant Consortium Graduate Fellowship 2008–2011
- American Astronomical Society International Travel Grant 2007, 2009, 2010, 2013
- First prize oral presentation, UVa Huskey Research Exhibition 2007
- NSF Graduate Research Fellowship, Honorable Mention 2004
- Student Medallion for Astronomy, Villanova University 2004
- Barry M. Goldwater Fellow 2003

GRANTS

- PI “Accurate Masses for Extraordinary Red Giants”
– TESS GO Cycle 3, \$30,000
- PI “Wonder: An All-Sky Spectral Type Classifier for Bright Object Checking”
– STScI Data Science Innovation Initiative, \$16,175, 2019
- PI “Heavy Metal Abundances in the Atmospheres of Planet-Hosting Giant Stars”
– STScI Director’s Research Funds, \$87,150, 2017

AWARDED OBSERVING TIME

- PI “MAMA Spectroscopic Sensitivity and Focus Monitor”
– 12 orbits on *Hubble Space Telescope*, Cycle 25, 26, 27
- PI “CCD Spectroscopic Sensitivity Monitor”
– 5 orbits on *Hubble Space Telescope*, Cycle 25, 26, 27
- PI “CCD Spectroscopic Flats”
– 19 orbits on *Hubble Space Telescope*, Cycle 25, 26, 27
- Co-I “Lithium as a Probe of Mass and Mixing in Red Giants”
– 2.0 nights on 8.2-m Subaru on Mauna Kea, HI, 2019A
- PI “A Lithium Survey of Red Giants in the Kepler Field”
– 1.82 nights on 8.1-m Gemini North Telescope on Mauna Kea, HI, 2016B
- PI “Beryllium Abundances in Select Li-rich Red Giants as a Signature of Planet Engulfment”
– 1 night on 8.2-m Subaru on Mauna Kea, HI, 2015A
– 4 nights on 4-m Mayall at Kitt Peak Observatory, AZ, 2014B
- Co-I “An autopsy of dead planetary systems with COS”
– 3 orbits on *Hubble Space Telescope*, Cycle 22
- PI “Lithium Inventory of 2 M_{\odot} Red Clump Stars”
– 5 nights on 6.5-m Magellan at Las Campanas Observatory, Chile, 2013A–2014A

- Co-PI “Verification of Newly Identified Galactic Open Cluster Candidates”
 - 5 nights on 2.5-m du Pont at Las Campanas Observatory, Chile, 2013A
- PI “Chemical Abundances of Planet-Hosting Giant Stars”
 - 5 nights on 2.5-m du Pont at Las Campanas Observatory, Chile, 2012A–2012B
 - 1 night on 6.5-m Magellan at Las Campanas Observatory, Chile, 2012A
- PI “Surveying Open Clusters for Signatures of Planet Accretion”
 - 9 nights on 2.5-m du Pont at Las Campanas Observatory, Chile, 2012A–2014A
 - 7 nights on 6.5-m Magellan at Las Campanas Observatory, Chile, 2012A–2014A
- PI “Testing the Planet Absorption Paradigm for Rapidly Rotating K Giant Stars”
 - 9 nights on 4-m Mayall at Kitt Peak Observatory, AZ, 2007A–2007B
 - 13 half-nights on 3.5-m telescope at Apache Point Observatory, NM, 2007–2011

RECENT INVITED & SEMINAR TALKS

- PSU “Center for Exoplanets and Habitable Worlds” seminar, State College PA Nov. 2018
- “Exoplanets Orbiting Hot Stars”, invited talk, Nashville, TN Jun. 2018
- STScI, “Hot Sci” Colloquium, Baltimore, MD Jun. 2017
- United States Naval Observatory, Scientific Colloquium, Washington, DC Jun. 2016
- Subaru Seminar, Hilo, HI Jun. 2015
- NASA/GSFC, Extrasolar Planets Seminar, Greenbelt, MD Feb. 2015
- Carnegie DTM, Astronomy Seminar, Washington, DC Feb. 2015
- NASA/GSFC, Solar System Exploration Seminar, Greenbelt, MD Feb. 2014
- Carnegie DTM, DTM Seminar, Washington, DC Oct. 2013
- Johns Hopkins University, JHU/STScI Astro Wine & Cheese Seminar, Baltimore, MD Sep. 2013
- Pontificia Universidad Católica de Chile, Dept. of Astronomy & Astrophysics, Santiago, Chile May 2013
- STScI, Star and Planet Formation Seminar Series, Baltimore, MD Mar. 2013
- University of Delaware, Space Physics Seminar, Newark, DE Mar. 2013
- Penn State, Center for Exoplanets & Habitable Worlds, State College, PA Aug. 2012

TECHNICAL SKILLS

- **Telescope/Instrument Experience:** Gemini 8.1-m/GRACES ● Subaru 8.2 m/HDS ● Clay 6.5 m/MIKE ● du Pont 2.5 m/echelle spectrograph, B&C spectrograph, RetroCam NIR imager ● APO 3.5 m/echelle spectrograph ● Mayall 4 m/echelle spectrograph ● Bok 2.3 m/B&C spectrograph.
- **Astronomy Software:** IRAF, MOOG, MESA and ARES.
- **Programming & Markup Languages:** IDL, Python, SQLite, \LaTeX , shell scripts, HTML

TEACHING/MENTORING EXPERIENCE

- **Research Advisor:** *STScI* 2018–present
 - Advising M. Pope (undergraduate) on measuring red giant masses with TESS data.
 - Advised J. Shoyer (undergraduate) on study of red giant stellar jitter with APOGEE data.
 - Advised D. Branton (STScI Junior RIA) on study of red giant star abundances.
- **Observing Advisor:** *Las Campanas Observatory, Chile* 2013
 - Trained K. Hamm on du Pont telescope instruments over 5-night observing run.

- **“Astronomy Tutorial” Mentor:** *Univ. of Virginia, Carnegie DTM* 2010, 2013
Mentored undergraduates (N. Butterfield and T. Esman) in an introduction to independent research course. Developed general and project-specific course materials.
- **Summer Session Instructor:** *Univ. of Virginia* 2008
Taught ASTR 342: Life Beyond Earth, a three-credit undergraduate Astronomy course.
- **Guest Lecturer: Jefferson Institute for Lifelong Learning:** *Univ. of Virginia* 2007, 2008
Topic: “Extrasolar Systems: Planets Around Other Stars”
- **Teaching Assistant:** *Univ. of Virginia* 2004–2008
ASTR 130: Introduction to Astronomical Observation
Night lab TA, Head ASTR 130 TA, revised & updated Laboratory Manual
- **Private Tutor with “Math Advantage:”** *Charlottesville, VA* 2004–2007
Personal math tutor for two middle school students.

OUTREACH

- Invited talk, Amateur Astronomers Association of Princeton Dec. 2021
- Speaker for NASA’s Webb Space Telescope Community Events Nov. 2021
- Invited talk, Delaware Valley Amateur Astronomers Feb. 2021
- Speaker at STScI Public Lecture Series May 2019
- “Astronomy Chat” astronomer at the National Air and Space Museum 2013–2018
- “Project ASTRO” volunteer, partnered with local high school teacher 2013–2016
- Invited talk, Northern Virginia Astronomy Club Dec. 2014
- Career Day speaker at Eleanor Roosevelt High School Dec. 2014
- Invited talk, George Mason University Observatory Sep. 2014
- Invited talk, National Capital Astronomers monthly meeting Apr. 2013
- “Dark Skies, Bright Kids” (DSBK) volunteer in after-school program at local elementary schools 2009–2011
- Lead author: DSBK’s bilingual Astronomy art book for children 2010
- Fan Mountain Observatory Public Night 2004–2010
- McCormick Observatory Public Night 2004–2010

SERVICE

- Referee: *ApJ, A&A, Nature Astronomy, Nature* ongoing
- STScI Prize Fellowship Committee 2020
- Space Astronomy Summer Program Committee 2019–present
- STScI Diversity Culture and Respect Working Group member 2019–2020
- TESS Cycle 2 Panel Chair 2019
- STScI/INS New Hire Trainer (Spectroscopy) 2018
- SOC Member: STScI 2018 Spring Symposium 2018
- STScI Research Support Advisory Committee 2017–present
- HST TAC Panel Support 2017
- NOAO Telescope Allocation Committee 5 semesters
- Organizer for weekly Astronomy Journal Club, Carnegie DTM 2012–2014
- Poster Judge for AAS Chambliss Astronomy Achievement Student Award 2010, 2013, 2018, 2020
- NASA Academy Scoring Committee 2007

PROFESSIONAL DEVELOPMENT

- SciCoder Workshop Jul. 2012
- Moving FORWARD in Space Workshop Jun. 2012
- Teaching Astro 101 Workshop Jan. 2010
- Tomorrow's Professor Today, program for graduate students 2007–2009

PROFESSIONAL MEMBERSHIPS

- International Astronomical Union, Member 2018–present
- American Association for the Advancement of Science, Member 2013–present
- American Astronomical Society, Member 2003–present

REFEREED PUBLICATIONS**(First author)**

10. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & do Nascimento Jr., J.-D., “An Updated Line List for NUV Spectral Synthesis in Evolved Stars: Redetermination of the Beryllium Abundance in the Solar Photosphere”, 2018, *ApJ*, 865, 8
9. **Carlberg, J. K.**, Cunha, K., & Smith, V. V., “Lithium Inventory of 2 M_{\odot} Red Clump Stars in Open Clusters: A Test of the Helium Flash Mechanism”, 2016, *ApJ*, 827, 129.
8. **Carlberg, J. K.**, Smith, V. V., Cunha, K., & Carpenter, K., “Lithium in Open Cluster Red Giants Hosting Substellar Companions”, 2016, *ApJ*, 818, 25
7. **Carlberg, J. K.**, Smith, V. V., Cunha, K., Majewski, S. R., Meszaros, S., Shetrone, M., Allende Prieto, C., Bizyaev, D., Stassun, K., Fleming, S., Zasowski, G., Hearty, F., Nidever, D., Schneider, D., Holtzman, J., & Frinchaboy, P., “The Puzzling Li-rich Red Giant Associated with NGC6819”, 2015, *ApJ*, 802, 7
6. **Carlberg, J. K.**, “Rotational and Radial Velocities of 1.3–2.2 M_{\odot} Red Giants in Open Clusters,” 2014, *AJ*, 147,138
5. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & Majewski, S. R., “Li-Enrichment in Red Giant Rapid Rotators: Planet Engulfment Versus Extra Mixing,” 2013, *AN*, 334, 120
4. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & Majewski, S. R., “Observable Signatures of Planet Accretion in Red Giant Stars I: Rapid Rotation and Light Element Replenishment,” 2012, *ApJ*, 757, 109
3. **Carlberg, J. K.**, Majewski, S. R., Patterson, R. J., Bizyaev, D., Smith, V. V., & Cunha, K., “The Frequency of Rapid Rotation Among K Giant Stars,” 2011, *ApJ*, 732, 39
2. **Carlberg, J. K.**, Smith, V. V., Cunha, K., Majewski, S. R., & Rood, R. T., “The Super Lithium-Rich Red Giant Rapid Rotator G0928+73.2600: A Case for Planet Accretion?” 2010, *ApJL*, 723, 103
1. **Carlberg, J. K.**, Majewski, S. R., & Arras, P., “The Role of Planet Accretion in Creating the Next Generation of Red Giant Rapid Rotators,” 2009, *ApJ*, 700, 832

(Co-author)

19. Mazzola, C. N., Badenes, C., Tayar, J., . . . , **Carlberg, J. K.** et al. “Stellar multiplicity and stellar rotation: Insights from APOGEE”, 2021, submitted to MNRAS

18. Mazzola, C. N., Badenes, C., Moe, M., . . . , **Carlberg, J. K.** et al. "The Close Binary Fraction as a Function of Stellar Parameters in APOGEE: A Strong Anti-Correlation With α Abundances", 2020, MNRAS, 499, 1607
17. Price-Whelan, A. M., Hogg, D. W., Rix, H.-W., et al., . . . , **Carlberg, J. K.** et al. "Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color-Magnitude Diagram," 2020, ApJ, 895, 2
16. Skinner, J., Covey, K. R., Bender, C. F., . . . , **Carlberg, J. K.** et al. "Forty-four New and Known M-dwarf Multiples in the SDSS-III/APOGEE M-dwarf Ancillary Science Sample," 2018, AJ, 156, 45
15. Badenes, C., Mazzola, C., Thompson, T. A., Covey, K., Freeman, P. E., Walker, M. G., Moe, M., Troup, N., Nidever, D., Allende Prieto, C., Andrews, B., Barbá, R. H., Beers, T. C., Bovy, J., **Carlberg, J. K.**, De Lee, N., Johnson, J., Lewis, H., Majewski, S. R., Pinsonneault, M., Sobeck, J., Stassun, K. G., & Zasowski, G., "Stellar Multiplicity Meets Stellar Evolution and Metallicity: The APOGEE View", 2018, ApJ, 854, 147
14. Zasowski, G., Cohen, R. E., Chojnowski, S. D., Santana, F., Oelkers, R. J., Andrews, B., Beaton, R. L., Bender, C., Bird, J. C., Bovy, J. , **Carlberg, J. K.**, et al., "Target Selection for the SDSS-IV APOGEE-2 Survey", 2017, AJ, 154, 198
13. Majewski, S. R., . . . , **Carlberg, J. K.**, et al., "The Apache Point Observatory Galactic Evolution Experiment (APOGEE)," 2017, AJ, 154, 94
12. Blanton, M. R., Bershady, M. A., . . . , **Carlberg, J. K.**, et. al., "Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies and the Distant Universe", 2017, AJ, 154, 28
11. Aguilera-Gómez, C., Chanamé, J., Pinsonneault, M. H., & **Carlberg, J. K.**, "On Lithium-Rich Red Giants: Engulfment on the Giant Branch of Trumpler 20," 2016, *ApJL*, 833, 24
10. Aguilera-Gómez, C., Chanamé, J., Pinsonneault, M. H., & **Carlberg, J. K.**, "On Lithium-Rich Red Giants. I. Engulfment of Sub-Stellar Companions," 2016, *ApJ*, 829, 127.
9. Hinkel, N. R., Young, P. A., Pagano, M. D., Desch, S. J., Anbar, A. D., Adibekyan, V., Blanco-Cuaresma, S., **Carlberg, J.K.**, Delgado Mena, E., Liu, F., Nordlander, T., Sousa, S.G., Korn, A., Gruyters, P., Heiter, U., Jofré, P., Santos, N. C., & Soubiran, C., "A Comparison of Stellar Elemental Abundance Techniques and Measurements," 2016, *ApJS*, 226, 4.
8. Troup, N. W., Nidever, D. L., De Lee, N., **Carlberg, J. K.**, et al., "Companions to APOGEE Stars I: A Milky Way-Spanning Catalog of Stellar and Substellar Companion Candidates and Their Diverse Hosts," 2016, AJ, 151, 85
7. Kohn, S. A., Shkolnik, E. L., Weinberger, A. J., **Carlberg, J. K.**, & Llama, J., "Searching for Spectroscopic Binaries Within Transition Disk Objects," 2016, *ApJ*, 820, 2
6. Rebull, L. M., **Carlberg, J. K.**, Gibbs, J. C., Deeb, J. E., Larsen, E., Black, D. V., Altepeter, S., Bucksbee, E., Cashen, S., Clarke, M., Datta, A., Hodgson, E., & Lince, M., "On Infrared Excesses Associated With Li-Rich K Giants," 2015, AJ, 150, 123
5. Ahn, C. P., . . . , **Carlberg, J. K.**, et. al., "The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data From the SDSS-III Apache Point Observatory Galactic Evolution Experiment", 2014, *ApJS*, 211, 17

4. Deshpande, R., Blake, C. H., Bender, C. F., Mahadevan, S., Terrien, R. C., **Carlberg, J. K.**, et. al., "The SDSS-III APOGEE Radial Velocity Survey of M dwarfs I: Description of Survey and Science Goal", 2013, *AJ*, 146, 156
3. Eisenstein, D. J., Weinberg, D. H., . . . , **Carlberg, J. K.**, et. al., "SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems," 2011, *AJ*, 142, 72
2. Sharma, S., Johnston, K. V., Majewski, S. R., Muñoz, R. R., **Carlberg, J. K.**, & Bullock, J., "Group Finding in the Stellar Halo Using M-giants in the Two Micron All Sky Survey: An Extended View of the Pisces Overdensity?" 2010, *ApJ*, 722, 750
1. Kolb, K., **Miller, J. K.**, Sion, E. M., & Mikołajewska, J., "Synthetic Spectral Analysis of the Hot Component in the S-Type Symbiotic Variable EG Andromedae," 2004, *AJ*, 128, 1790

NON-REFEREED/TECHNICAL PUBLICATIONS

6. Proffitt, C. R., Roman-Duval, J, Taylor, J. M., . . . , **Carlberg, J. K.** et al. "Close Companions to the T Tauri Stars CVSO 109 and CVSO 165 Observed by the HST ULLYSES Program", 2021, *RNAAS*, 5, 36
5. Proffitt, C. R., Roman-Duval, J, Taylor, J. M., . . . , **Carlberg, J. K.** et al. "Ultraviolet Legacy Library of Young Stars as Essential Standards (ULLYSES): Data Release I", 2020, *RNAAS*, 4, 11
4. **Carlberg, J. K.**, "Identifying Jitter Induced CCD CR-SPLIT Combination Errors", 2019, Space Telescope STIS Instrument Science Report, 2019-02
3. **Carlberg, J.**, "STIS Bright Object Protection for Available-But-Unsupported Modes", 2018, Space Telescope STIS Instrument Science Report, 2018-07
2. **Carlberg, J. K.** & Monroe, T., "Updated Time Dependent Sensitivity Corrections for STIS Spectral Modes", 2017, Space Telescope STIS Instrument Science Report, 2017-06
1. Jackson, B. & **Carlberg, J.K.**, "Accretion of Planetary Material onto Host Stars," 2017, in Handbook of Exoplanets, ed. Deeg, H. J. & Belmonte, J. A. (Springer International Publishing)

CONFERENCE PRESENTATIONS

(First author)

22. **Carlberg, J.**, "RoboReassign: Simulation SDSS-V Survey Success", contributed lightning talk, SDSS-IV/V Collaboration Meeting 2020, Virtual, Jun. 2020.
21. **Carlberg, J.**, Monroe, T., Riley, A., "Improved Flux Calibration of HST/STIS E140M via New Sensitivity Curves", contributed poster, AAS meeting 235, #372.03, Honolulu, HI, Jan. 2020
20. **Carlberg, J. K.**, Branton, D., Valenti, J., "A Fresh Look at Red Giant Planet Hosts Using TESS: A Study of Stellar Mass and Surface Gravity", contributed poster, Extreme Solar Systems IV, Reykjavík, Iceland, Aug. 2019
19. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & do Nascimento, Jr., J. D., "Beryllium Abundances in Li-rich Red Giants," contributed poster, Cool Stars 20, Boston, MA, Jul. 2018

18. **Carlberg, J. K.** and the STIS team, "Improved Calibrations for STIS on HST: New Sensitivity Corrections for STIS Spectral Modes and a Geometric Distortion Solution for the FUV-MAMA," contributed poster, AAS Meeting 231, #355.01, Washington, DC, Jan. 2018
17. **Carlberg, J. K.**, "Getting to Know the Substellar Hosts in the APOGEE-2 Survey," contributed talk, Know Thy Star - Know Thy Planet, Pasadena, CA, Oct. 2017
16. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & do Nascimento, Jr., J. D., "How Much Beryllium is in That Line: An Updated Line List for NUV Spectral Synthesis," contributed poster, STScl 2017 Spring Symposium, Lifecycle of Metals Through the Universe: Celebrating 50 Years of UV Astronomy, Baltimore, MD, Apr. 2017
15. **Carlberg, J. K.**, Cunha, K., Smith, V. V., & Carpenter, K., "Using Open Cluster Red Giants to Test Atypical Li Enrichment," contributed poster, Cool Stars 19, Uppsala, Sweden, Jun. 2016
14. **Carlberg, J. K.**, "Abundances of Planet Hosting Red Giant Stars: A Key for Understanding Pollution and Planet Engulfment," contributed talk, Pathways Towards Habitable Planets satellite meeting: Connecting Stellar Abundances and Planet Habitability, Bern, Switzerland, Jul. 2015
13. **Carlberg, J. K.**, Smith, V. V., Cunha, K., Majewski, S. R., Meszaros, S., Shetrone, M., Allende Prieto, C., Bizyaev, D., Stassun, K., Fleming, S., Zasowski, G., Hearty, F., Nidever, D., Schneider, D., Holtzman, J., & Frinchaboy, P., "The Puzzling Li-rich Red Giant in the APOGEE Field", contributed poster, AAS Meeting 225, #340.01, Seattle, WA, Jan. 2015
12. **Carlberg, J. K.**, "The Puzzle of Li-rich Red Giants: New Insights but More Missing Pieces" contributed talk, Goddard-JHU Interaction Day, Baltimore, MD, Nov. 2014
11. **Carlberg, J. K.**, Cunha, K., & Smith, V. V., 2015, "Lithium Inventory of 2 M_{\odot} Red Clump Stars: Is Li Created During the He Flash?", contributed poster, in 18th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 18, 673 (arXiv:1408.2578)
10. **Carlberg, J. K.**, "The Diversity of Exoplanets: An Observer's Perspective," invited talk, DC/MD/VA Astrophysics Summer 2014 Meeting, Washington, DC, Jul. 2014
9. **Carlberg, J. K.**, "Open Cluster Red Giants: Exploring the Origin of the Fastest Rotators," contributed talk, 400 Years of Stellar Rotation, Natal, Brazil, Nov. 2013
8. **Carlberg, J. K.**, Esman, T., Majewski, S. R. "Probing the red giant binary population with APOGEE," contributed talk, SDSS-III collaboration meeting, Baltimore, MD, Jun. 2013
7. **Carlberg, J. K.**, "A New Look into the Rotation Distribution of Open Cluster Red Giants," contributed poster, AAS Meeting 221, #250.32, Long Beach, CA, Jan. 2013
6. **Carlberg, J. K.**, Cunha, K., & Smith, V. V., "A Dozen Red Giant Stars That May Have Accreted Planets," contributed poster, Extreme Solar Systems II, Jackson Hole, WY, Sep. 2011
5. **Carlberg, J. K.**, Johnson, K., Lynch, R., Walker, L., Beaton, R., Corby, J., de Messieres, G., Drosback, M., Gugliucci, N., Jackson, L., Kingery, A., Layman, S., Murphy, E., Richardson, W., Ries, P., Romero, C., Sivakoff, G., Sokal, K., Trammell, G., Whelan, D., Yang, A., & Zasowski, G., "Dark Skies, Bright Kids: Year 2," contributed poster, AAS meeting 217, #158.05, Seattle, WA, Jan. 2011

4. **Carlberg, J. K.**, Majewski, S. R., Smith, V. V., Cunha, K., & Bizyaev, D., 2010 “The Fate of Exoplanets and the Red Giant Rapid Rotator Connection,” contributed talk, in American Institute of Physics Conference Series, 1331, Planetary Systems Beyond the Main Sequence, ed. S. Schuh, H. Drechsel, & U. Heber, 33
3. **Carlberg, J. K.**, Majewski, S. R., Smith, V. V., Cunha, K., Patterson, R. J., Bizyaev, D., Arras, P., & Rood, R. T., 2009, “A New Spin on Red Giant Branch Rapid Rotators: Evidence for Chemical Exchange Between Planets and Evolved Stars,” contributed talk, in IAU Symposium Vol. 265, Chemical Abundances in the Universe: Connecting First Stars to Planets, ed. K. Cunha, M. Spite, & B. Barbuy, 408
2. **Miller, J. K.**, Majewski, S. R., Smith, V. V., Rood, R. T., Cunha, K., Patterson, R. J., & Bizyaev, D., 2007, “Looking for Chemical Evidence for the Accretion of Planets onto Red Giant Stars,” contributed poster, Extreme Solar Systems I, Santorini, Greece, Jun. 2007
1. **Miller, J. K.**, Korzennik, S. G., & Nisenson, P., “Calculating Velocity Shifts Between the Pre- and Post-Upgrade AFOE Data Sets,” contributed poster, AAS Meeting 203, #17.10, Atlanta, GA, Jan. 2004

(Co-author)

19. Monroe, T., Branton, D., **Carlberg, J.**, et al. “Recent Calibration Efforts and Performance Updates for HST/STIS” contributed poster, AAS meeting 235, #372.02
18. Branton, D., **Carlberg, J.**, & Valenti, J. , “Measuring Heavy Metal Abundances of Red Giant Stars That Host Planets” contributed poster, AAS meeting 235, #274.03
17. Roman-Duval, J. C., De Rosa, G., Proffitt, C., et al. “Overview of the ULLYSES Director’s Discretionary HST program” contributed poster, AAS meeting 235, #232.03
16. de Lee, N., Faller, T., Herweck, K., et al. , “Constructing Orbits: Multiple Methods for Recovering Periods”, contributed poster, AAS meeting 235, #170.36
15. Troup, N., de Lee, N., **Carlberg, J.**, et al. “Companions to APOGEE Stars in Clusters of all Ages”, contributed poster, AAS meeting 235, #114.07
14. Shroyer, J. E., & **Carlberg, J.**, “Characterizing Infrared Radial Velocity Jitter in Red Giant Stars” contributed poster, AAS meeting 235, #110.20
13. Monroe, T. and the STIS team (inc. **Carlberg, J. K.**), “Calibration Efforts and Unique Capabilities of the HST Space Telescope Imaging Spectrograph”, contributed poster, AAS Meeting 231, #355.42, Washington, DC, Jan. 2018.
12. De Lee, N. M., Houston, K., Troup, N., Covey, K., **Carlberg, J. K.**, Stassun, K. G., & APOGEE RV Variability Working Group, “Constructing Orbits: Analyzing Different Methods of Orbit Fitting in the APOGEE Survey”, contributed poster, AAS Meeting 231, #246.43, Washington, DC, Jan. 2018.
11. Troup, N. W., Nidever, D. L., De Lee, N., **Carlberg, J.**, et al., “Combing the Brown Dwarf Desert with the APOGEE Catalog of Stellar and Substellar Companion Candidates,” contributed poster, AAS Meeting 227, #142.13, Kissimmee, FL, Jan. 2016

10. Nguyen, D. C.; **Carlberg, J. K.**; Troup, N. W., Nidever, D. L, De Lee, N. M.; Suriano, S., Oza, A., Hearty, F. R., & Majewski, S. R. "A Study of Statistical Binaries with SDSS/APOGEE" contributed poster, AAS Meeting 225, #340.06, Seattle, WA, Jan. 2015
9. Smith, V. V., Cunha, K M. L., Souto, D., Shetrone, M. D., Meszaros, S., Allende-Prieto, C., Bizyaev, D., **Carlberg, J. K.**, García Pérez, A., Hasselquist, S., Holtzman, J. A., Johnson, J., Majewski, S. R., Schiavon, R. P., Sobeck, J., Troup, N. W. "Chemical Abundance Comparisons Between ASPCAP and Manual Analyses in Open Cluster Red Giants" contributed talk, AAS Meeting 225, #302.06, Seattle, WA, Jan. 2015
8. Blake, C., Mahadevan, S., Deshpande, R., Bender, C. F., Terrien, R., Crepp, J. R., **Carlberg, J. K.**, Nidever, D. L., Stassun, K., Hawley, S. L., Hearty, F., & Allende-Prieto, C. "The APOGEE Low-Mass Star Ancillary Project" contributed talk, AAS Meeting 225, #302.05, Seattle, WA, Jan. 2015
7. Zasowski, G., Hamm, K., Beaton, R., Damke, G., **Carlberg, J. K.**, Majewski, S. R., & Frinchaboy, P. M. "Radial Velocities, Metallicities, and Improved Fundamental Parameters of Outer Disk Open Clusters," contributed poster, AAS Meeting 223, #442.13, Washington, DC, Jan. 2014
6. Hamm, K., Beaton, R., Zasowski, G., Damke, G., Majewski, S. R., Frinchaboy, P. M., Shavon, R.P., & **Carlberg, J. K.**, "A Spectroscopic Study of Open Cluster Candidates," contributed poster, AAS Meeting 221, #250.31, Long Beach, CA, Jan. 2013
5. Jackson, B., & **Carlberg, J. K.**, "Ellipsoidal Variation Analysis of Kepler Observations Using the EVIL-MC Model," contributed poster, AAS DPS Meeting 44, #113.16, Oct. 2012
4. Bizyaev, D., **Carlberg, J. K.**, Nidever, D. L., Majewski, S. R., Shetrone, M. D., Smith, V. V., Patterson, R. J., Cunha, K., Holtzman, J. A., O'Connell, R. W., & Pan, K., "Rapid Rotators among APOGEE Red Giants," contributed poster, AAS Meeting 220, #133.05, Anchorage, AK, Jun. 2012
3. Beaton, R, Jackson, L., **Carlberg, J.**, Johnson, K., Marchand, R., Sivakoff, G., Czekala, I., Damke, G., Dean, J., Drosback, M., Gugliucci, N., Martinez, O., Wong, A., & Zasowski, G., "Snapshots of the Universe: A Multi-Lingual Astronomy Art Book," contributed poster, AAS Meeting 220, #437.13, Anchorage, AK, Jun. 2012
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1. Kolb, K. J., **Miller, J. K.**, & Sion, E. M, "Modelling the Hot Components of the Symbiotic Variables EG Andromeda and SY Muscae," contributed poster, AAS Meeting 202, #39.08, Nashville, TN, May 2003