

Department of Astronomy  
 The Ohio State University  
 4055 McPherson Laboratory  
 140 West 18<sup>th</sup> Ave.  
 Columbus, OH 43210

johnson.7240@osu.edu  
 captain-exoplanet.github.io

## Education

- 2016 **Ph.D.**, The University of Texas at Austin, Astronomy  
 Dissertation: *Spin-Orbit Misalignments, Planet Candidate Validation, and Nodal Precession via Doppler Tomography*  
 advisor: W. D. Cochran; committee: W. D. Cochran, M. Endl, E. L. Robinson, C. Sneden, A. Collier Cameron
- 2013 **M.A.**, The University of Texas at Austin, Astronomy  
 Thesis: *Doppler Tomographic Observations of Exoplanetary Transits*  
 advisor: W. D. Cochran; committee: W. D. Cochran, S. Dodson-Robinson, M. Endl, E. L. Robinson, C. Sneden
- 2011 **B.A.**, Wesleyan University, Astronomy and Physics  
 With High Honors in Astronomy, Phi Beta Kappa  
 Honors thesis: *The Shadows of Distant Worlds: Exoplanetary Transit Timing Using the Perkin Telescope* advisor: S. Redfield  
 (Semester abroad, University of St. Andrews, Scotland, spring 2010)

## Professional Experience

- 2021- Postdoctoral Scholar, The Ohio State University
- 2019-2021 Staff Scientist, Las Cumbres Observatory
- 2019 Postdoctoral Researcher, The Ohio State University
- 2016-2019 Columbus Prize Postdoctoral Fellow, The Ohio State University
- 2012-2016 Graduate Research Assistant, University of Texas at Austin. Advisor: W. D. Cochran
- 2011-2012 Teaching Assistant, University of Texas at Austin.
- 2009 Research Experience for Undergraduates, MIT Haystack Observatory.  
 Advisor: L. D. Matthews
- 2009-2011 Student Researcher, Astronomy Department, Wesleyan University.  
 Advisors: S. Redfield, W. Herbst
- 2008 Research Experience for Undergraduates, Keck Northeast Astronomy Consortium, Vassar College. Advisor: A. A. Sheffield

## Fellowships, Scholarships, Grants, and Awards

- 2023-2026 Funded NASA XRP program (\$447k total)
- 2019 Funded NASA TESS GO2 program (\$49k total)
- 2017-2019 Four NASA Keck PI Data Awards (\$51.9k total)
- 2016-2019 Columbus Prize Postdoctoral Fellowship, Dept. of Astronomy, The Ohio State University
- 2016 Funded NASA K2 program (\$30k total)
- 2016 Rodger Doxsey Travel Prize, American Astronomical Society
- 2015 David Alan Benfield Memorial Fellowship in Astronomy, University of Texas at Austin
- 2013 Frank N. Edmonds, Jr. Memorial Fellowship in Astronomy, University of Texas at Austin
- 2012-2015 NASA Earth and Space Science Fellowship (\$30k/year for 3 years)
- 2011 Littell Prize, Wesleyan University
- 2011 Dean's List, Wesleyan University (spring semester)
- 2011 Chambliss Astronomy Achievement Student Award, American Astronomical Society
- 2010 Undergraduate Fellowship, NASA CT Space Grant Consortium (\$4.5k total)
- 2007-2011 Robert C. Byrd Honors Scholarship
- 2007-2011 Associated Universities, Inc. Trustees' Scholarship

**Invited Talks**

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2019	Santa Barbara Astro Lunch Talk
2019	Keck Observatory Science Talk
2019	Las Cumbres Observatory Seminar Series
2017	Harvard-Smithsonian Center for Astrophysics Exoplanet Pizza Lunch talk
2016	The Ohio State University Department of Astronomy Colloquium

**Contributed Talks**

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2023	American Astronomical Society 241 <sup>st</sup> Meeting, Seattle, WA
2022	Great Lakes Exoplanet Area Meeting (GLEAM) 2022, Columbus, OH
2022	Thinkshop 2022: High-Resolution Spectroscopy for Exoplanet Atmospheres and Biomarkers, Potsdam, Germany
2020	Exoplanets in Southern California (ExSoCal) 2020, Virtual Conference
2019	Extreme Solar Systems IV, Reykjavik, Iceland
2019	American Astronomical Society 233 <sup>rd</sup> Meeting, Seattle, WA
2018	Exoplanets Orbiting Hot Stars, Nashville, TN
2016	Exoplanets in the Era of Extremely Large Telescopes, Pacific Grove, CA
2016	American Astronomical Society 227 <sup>th</sup> Meeting, Kissimmee, FL
2015	American Astronomical Society 225 <sup>th</sup> Meeting, Seattle, WA
2014	Characterizing Planetary Systems Across the HR Diagram, Cambridge, England

**Service, Diversity, & Management**

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2022	Co-Chair, SOC; Member, LOC, Great Lakes Exoplanet Area Meeting (GLEAM) 2022, Columbus, OH
2020-2023	Deputy PI for Spectroscopy, LCO Key Project on TESS Follow-Up
2020-2021	Co-Chair, Committee on Diversity & Inclusion, Las Cumbres Observatory
2020	Member, SOC, ExSoCal 2020 Virtual Conference
2019	Member, TAC for TOM Toolkit Workshop Call for Proposals
2019-2021	KESPRINT Collaboration Modeling Group Secretary
2019, 2023	Chambliss poster competition judge, American Astronomical Society meeting
2017-2018	Member, SOC, Exoplanets Orbiting Hot Stars Conference, Nashville, TN
2017	Certificate in Diversity and Implicit Bias Awareness, The Ohio State University
2016-	Referee for MNRAS, AJ, A&A, ApJL, PSJ, PASJ (13 papers total)
2016-2019	Organizer of weekly Ohio State exoplanet group meetings
2014-2015	Graduate Student Treasurer, Department of Astronomy, Univ. of Texas at Austin
2013-2014	Graduate Student Computer Liaison, Department of Astronomy, Univ. of Texas at Austin

**Teaching Experience**

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*Teaching Assistantships*

Spring 2012	University of Texas at Austin, AST 309L: Search for Extraterrestrial Life, with J. Scalo
Fall 2011	University of Texas at Austin, AST 309S: The Solar System, with S. Dodson-Robinson

**Observational Experience**

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2018-2019	10 m Keck Telescope/NIRC2 or HIRES; 3 nights
2017	2×8.4 m Large Binocular Telescope/Large Binocular Camera imager; 3 nights
2010-2018	2.7 m Harlan J. Smith Telescope/Robert G. Tull TS21, TS23, IGRINS Echelle Spectrographs, McDonald Observatory, University of Texas at Austin; 90 nights (80.5 as sole or senior observer)
2008-2011	24-in Perkin Telescope/CCD camera, Van Vleck Observatory, Wesleyan University: CCD photometry; chief student observer, 2009-2011; ~ 25 partial nights
2008	32-in telescope/Optomechanics 10C spectrograph, Class of 1951 Observatory, Vassar College; ~ 10 partial nights
2008	40-in telescope/ <i>FOBOS</i> spectrograph, Fan Mountain Observatory, U. Virginia; 5 nights

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**Awarded Observing Time**

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LBT	Awarded 119 hours as P.I.
Gemini	15 hours as P.I.
Keck	Awarded 4 nights as P.I. via NASA
McDonald	Awarded 15.5 nights as P.I. on 2.7 m
LCO	Awarded 383 hours as P.I.
<i>TESS</i>	368 targets as P.I.
<i>Kepler</i> /K2	1,418 targets as P.I., 803 targets as Science P.I.
SALT	Awarded 83,310 seconds as P.I.

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**Outreach Experience**

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2019	Volunteer at Astronomy on Tap Santa Barbara, Santa Barbara, CA
2019	Talk at Friends of Ohio State Astronomy & Astrophysics Spring Event
2017-2018	Presenter at the Ohio State University Arne Slettebak Planetarium
2014-2016	Volunteer and speaker at Astronomy on Tap ATX, Austin, TX
2015-2016	Volunteer for McDonald Observatory's <i>Ask an Astronomer</i> service
2013, 2016	Volunteer at exhibit of JWST at South by Southwest (SXSW) Festival
2013-2016	Public talks for attendees at McDonald Observatory Special Viewing Nights
2012	Volunteer at University of Texas at Austin/Department of Astronomy viewing of the Transit of Venus
2011	Volunteer at McDonald Observatory booth at the Texas Science & Engineering Festival
2009-2010	Gave portable planetarium shows at elementary schools in Middletown, CT
2007-2011	Ran public observing nights on 16" telescope, Van Vleck Observatory, Wesleyan University

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**Professional Organizations**

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American Astronomical Society (full member since 2017; junior member, 2010-2017)  
 Division for Planetary Sciences, American Astronomical Society (full member since 2017; junior member, 2014-2017)

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**Refereed Publications**

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*First-Author Papers*

1. **Johnson, M. C.**, Wang, J., Pai Asnodkar, A., Bonomo, A. S., et al. *The PEPsi Exoplanet Transit Survey (PETS). II. A Deep Search for Thermal Inversion Agents in KELT-20 b/MASCARA-2 b with Emission and Transmission Spectroscopy* 2023, AJ, in press (arXiv:2205.12162)
  2. **Johnson, M. C.**, David, T. J., Petigura, E. A., Isaacson, H. T., et al. *An Aligned Orbit for the Young Planet V1298 Tau b* 2022, AJ, 163, 247
  3. **Johnson, M. C.**, Dai, F., Justesen, A. B., Gandolfi, D., et al. *K2-260 b: a Hot Jupiter Transiting an F Star, and K2-261 b: a Warm Saturn around a Bright G Star* 2018, MNRAS, 481, 596
  4. **Johnson, M. C.**, Rodriguez, J. E., Zhou, G., Gonzales, E. J., et al. *KELT-21b: A Hot Jupiter Transiting the Rapidly Rotating Metal-Poor Late-A Primary of a Likely Hierarchical Triple System* 2018, AJ, 155, 100
  5. **Johnson, M. C.**, Cochran, W. D., Addison, B. C., Tinney, C. G., & Wright, D. J. *Spin-Orbit Misalignments of Three Jovian Planets via Doppler Tomography* 2017, AJ, 154, 137
  6. **Johnson, M. C.**, Gandolfi, D., Fridlund, M., Csizmadia, Sz., et al. *Two Hot Jupiters from K2 Campaign 4* 2016, AJ, 151, 171
  7. **Johnson, M. C.**, Endl, M., Cochran, W. D., Meschiari, S., et al. *A 12-Year Activity Cycle for the Nearby Planet Host Star HD 219134* 2016, ApJ, 821, 74
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8. **Johnson, M. C.**, Cochran, W. D., Collier Cameron, A., & Bayliss, D. *Measurement of the Nodal Precession of WASP-33 b via Doppler Tomography* 2015, ApJL, 810, 23
9. **Johnson, M. C.**, Redfield, S., & Jensen, A. G. *The Interstellar Medium in the Kepler Search Volume* 2015, ApJ, 807, 162
10. **Johnson, M. C.**, Cochran, W. D., Albrecht, S., Dodson-Robinson, S. E., Winn, J. N., & Gullikson, K. *A Misaligned Prograde Orbit for Kepler-13 Ab via Doppler Tomography* 2014, ApJ, 790, 30

#### Other Papers

11. Lin, Z., Gan, T., Wang, S. X., Shporer, A., et al. (**M. C. Johnson** 24<sup>th</sup> of 44 authors) *Three Low-Mass Companions around Aged Stars Discovered by TESS* 2022, MNRAS, submitted (arXiv:2210.13939)
12. El Mufti, M., Plavchan, P. P., Isaacson, H., Cale, B. L., et al. (**M. C. Johnson** 74<sup>th</sup> of 96 authors) *TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs* 2021, AJ, submitted (arXiv:2112.13448)
13. McCully, C., Daily, M., Brandt, G. M., **Johnson, M. C.**, Bowman, M., & Harbeck, D.-R. *Automatic Spectroscopic Data Reduction using BANZAI* 2022, Proc. SPIE, 12189, 1218914
14. Volgenau, N., Harbeck, D., Lindstrom, W., Collom, D., Street, R., & **Johnson, M.** *Calibration-TOM: Managing Calibration Observations for a Global Network of Telescopes* 2022, Proc. SPIE, 12186, 121860W
15. Stephan, A. P., Wang, J., Cauley, P. W., Gaudi, B. S., et al. (**M. C. Johnson** 6<sup>th</sup> of 7 authors) *Nodal Precession and Tidal Evolution of Two Hot-Jupiters: WASP-33 b and KELT-9 b* 2022, AJ, 931, 111
16. Watanabe, N., Narita, N., Palle, E., Fukui, A., et al. (**M. C. Johnson** 9<sup>th</sup> of 17 authors) *Nodal Precession of WASP-33b for Eleven Years by Doppler Tomographic and Transit Photometric Observations* 2022, MNRAS, 512, 440
17. Hatzes, A. P., Gandolfi, D., Korth, J., Rodler, F., et al. (**M. C. Johnson** 23<sup>rd</sup> of 37 authors) *A Radial Velocity Study of the Planetary System of  $\pi$  Mensae: Improved Planet Parameters for  $\pi$  Mensae c and a Third Planet on a 125-d Orbit* 2022, AJ, 163, 223
18. Christian, S., Vanderburg, A., Becker, J., Yahalomi, D. A., et al. (**M. C. Johnson** 63<sup>rd</sup> of 115 authors) *A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions* 2022, AJ, 163, 207
19. Mann, A. W., Wood, M. L., Schmidt, S. P., Barber, M. G., et al. (**M. C. Johnson** 36<sup>th</sup> of 51 authors) *TESS Hunt for Young and Maturing Exoplanets (THYME) VI: An 11 Myr Giant Planet Transiting a Very Low-Mass Star in Lower Centaurus Crux* 2022, AJ, 163, 156
20. Wittenmyer, R. A., Clark, J. T., Trifonov, T., Addison, B. C., et al. (**M. C. Johnson** 18<sup>th</sup> of 44 authors) *TOI-1842b: A Transiting Warm Saturn Undergoing Re-Inflation around an Evolving Subgiant* 2022, AJ, 163, 82
21. Lam, K. W. F., Csizmadia, Sz., Astudillo-Defru, N., Bonfils, X., et al. (**M. C. Johnson** 50<sup>th</sup> of 78 authors) *GJ 367 b: A Dense, Ultrashort-Period Sub-Earth Planet Transiting a Nearby Red Dwarf Star* 2021, Science, 374, 1271
22. Addison, B. C., Knudstrup, E., Wong, I., Hébrard, G., et al. (**M. C. Johnson** 35<sup>th</sup> of 73 authors) *TOI-1431 b/MASCARA-5 b: A Highly Irradiated Ultra-Hot Jupiter Orbiting One of the Hottest & Brightest Known Exoplanet Host Stars* 2021, AJ, 162, 292
23. Feinstein, A. D., Montet, B. T., **Johnson, M. C.**, Bean, J. L., et al. *H $\alpha$  and Ca II Infrared Triplet Variations during a Transit of the 23 Myr Planet V1298 Tau c* 2021, AJ, 162, 213

24. Narita, N., Fukui, A., Yamamuro, T., Harbeck, D., et al. (**M. Johnson** 35<sup>th</sup> of 36 authors) *MuSCAT3: a 4-Color Simultaneous Camera for the 2m Faulkes Telescope North* 2020, Proc. SPIE, 11447, 114475K
25. Stevens, D. J., Zhou, G., **Johnson, M. C.**, Rizzuto, A. C., et al. *An Extreme-Mass Ratio, Short-Period Eclipsing Binary Consisting of a B Dwarf Primary and a Pre-Main Sequence M Star Companion Discovered by KELT* 2020, MNRAS, 499, 3775
26. Mann, A. W., **Johnson, M. C.**, Vanderburg, A., Kraus, A. L., et al. *TESS Hunt for Young and Maturing Exoplanets (THYME) III: A Two-Planet System in the 400 Myr Ursa Major Group* 2020, AJ, 160, 179
27. Rodríguez Martínez, R., Gaudi, B. S., Rodríguez, J. E., Zhou, G., et al. (**M. C. Johnson** 19<sup>th</sup> of 92 authors) *KELT-25b & KELT-26b: A Hot Jupiter and a Substellar Companion Transiting Young A-Stars Observed by TESS* 2020, AJ, 160, 111
28. Nowak, G., Palle, E., Gandolfi, D., Deeg, H. J., et al. (**M. C. Johnson** 12<sup>th</sup> of 60 authors) *K2-280 b - A Low Density Warm Sub-Saturn around a Mildly Evolved Star* 2020, MNRAS, 497, 4423
29. Ahlers, J. P., **Johnson, M. C.**, Stassun, K. G., Colón, K. D., et al. *KELT-9 b's Asymmetric TESS Transit Caused by Rapid Stellar Rotation and Spin-Orbit Misalignment* 2020, AJ, 160, 4
30. Šubjak, J., Sharma, R., Carmichael, T. W., **Johnson, M. C.**, et al. *TOI-503: The First Known Brown Dwarf-Am Star Binary from the TESS Mission* 2020, AJ, 159, 151
31. Watanabe, N., Narita, N., & **Johnson, M. C.** *Doppler Tomographic Measurement of the Nodal Precession of WASP-33b* 2020, PASJ, 72, 19
32. Díaz, M. R., Jenkins, J. S., Gandolfi, D., Lopez, E. D., et al. (**M. C. Johnson** 19<sup>th</sup> of 48 authors) *TOI-132 b: A Short-Period Planet in the Neptune Desert Transiting a  $V=11.3$  G-Type Star* 2020, MNRAS, 493, 973
33. Thao, P. C., Mann, A. W., **Johnson, M. C.**, Newton, E. R., et al. *Zodiacal Exoplanets in Time (ZEIT) IX: A Flat Transmission Spectrum and a Highly Eccentric Orbit for the Young Neptune K2-25b as Revealed by Spitzer* 2020, AJ, 159, 32
34. Rodríguez, J. E., Eastman, J. D., Zhou, G., Quinn, S. N., et al. (**M. C. Johnson** 7<sup>th</sup> of 78 authors) *KELT-24b: A  $5M_J$  Planet on a 5.6 Day Well-Aligned Orbit around the Young  $V=8.3$  F-Star HD 93148* 2019, AJ, 158, 197
35. Blunt, S., Endl, M., Weiss, L. M., Cochran, W. D., et al. (**M. C. Johnson** 8<sup>th</sup> of 27 authors) *Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 AU* 2019, AJ, 158, 181
36. Dholakia, S., Dholakia, S., Cody, A. M., Howell, S. B., et al. (**M. C. Johnson** 5<sup>th</sup> of 10 authors) *A Substellar Companion to a Hot Star in K2's Campaign 0 M35 Field* 2019, PASP, 131, 114402
37. Zhou, G., Huang, C. X., Bakos, G. Á, Hartman, J. D., et al. (**M. C. Johnson** 26<sup>th</sup> of 65 authors) *Two New HATNet Hot Jupiters around A Stars, and the First Glimpse of the Occurrence Rate of Hot Jupiters from TESS* 2019, AJ, 158, 141
38. Persson, C. M., Csizmadia, S., Mustill, A. J., Fridlund, M., et al. (**M. C. Johnson** 19<sup>th</sup> of 56 authors) *Greening of the Brown Dwarf Desert: EPIC 212036875b: a  $51 M_J$  Object in a 5 Day Orbit around an F7V Star* 2019, A&A, A&A, 628, 64
39. Johns, D., Reed, P. A., Rodríguez, J. E., Pepper, J., et al. (**M. C. Johnson** 40<sup>th</sup> of 57 authors) *KELT-23b: A Hot Jupiter Transiting a Near-Solar Twin Close to the TESS and JWST Continuous Viewing Zones* 2019, AJ, 158, 78
40. Newton, E. R., Mann, A. W., Tofflemire, B. M., Pearce, L., et al. (**M. C. Johnson** 11<sup>th</sup> of 50 authors) *TESS Hunt for Young and Maturing Exoplanets (THYME) I: A Planet in the 40 Myr Tucana-Horologium Association* 2019, ApJL, 880, 17

41. Labadie-Bartz, J., Rodriguez, J. E., Stassun, K. G., Ciardi, D. R., et al. (**M. C. Johnson** 6<sup>th</sup> of 56 authors) *KELT-22Ab: A Massive, Short-Period Hot Jupiter Transiting a Near-Solar Twin* 2019, ApJS, 240, 13
42. Collins, K. A., Collins, K. I., Pepper, J., Labadie-Bartz, J., et al. (**M. C. Johnson** 12<sup>th</sup> of 111 authors) *The KELT Follow-Up Network and Transit False Positive Catalog: Pre-Vetted False Positives for TESS* 2018, AJ, 156, 234
43. Addison, B. C., Wang, S., **Johnson, M. C.**, Tinney, C. G., Wright, D. J., & Bayliss, D. *Stellar Obliquities & Planetary Alignments (SOPA) I. Spin-Orbit Measurements of Three Transiting Hot Jupiters: WASP-72b, WASP-100b, & WASP-109b* 2018, AJ, 156, 197
44. Strassmeier, K. G., Ilyin, I., Weber, M., Järvinen, A., et al. (**M. C. Johnson** 11<sup>th</sup> of 13 authors) *Want a PEPsi? Performance Status of the Recently Commissioned High-Resolution Spectrograph and Polarimeter for the 2×8.4m Large Binocular Telescope* 2018, Proc. SPIE, 10702, 1070212
45. Eigtmüller, Ph., Csizmadia, Sz., Endl, M., Gandolfi, D., et al. (**M. C. Johnson** 10<sup>th</sup> of 14 authors) *A Transiting M-Dwarf Showing Beaming Effect in the Field of Ruprecht 147* 2018, MNRAS, 480, 3864
46. Furlan, E., Ciardi, D. R., Cochran, W. D., Everett, M. E., et al. (**M. C. Johnson** 20<sup>th</sup> of 25 authors) *The Kepler Follow-Up Observation Program. II. Stellar Parameters from Medium- and High-Resolution Spectroscopy* 2018, ApJ, 861, 149
47. Bowler, B. P., Dupuy, T. J., Endl, M., Cochran, W. D., et al. (**M. C. Johnson** 13<sup>th</sup> of 14 authors) *Orbit and Dynamical Mass of the Late-T Dwarf GJ 758 B* 2018, AJ, 155, 159
48. Barragán, O., Gandolfi, D., Dai, F., Livingston, J., et al. (**M. C. Johnson** 30<sup>th</sup> of 36 authors) *K2-141 b: A 5-M<sub>⊕</sub> Super-Earth Transiting a K7V Star Every 6.7 Hours* 2018, A&A, 612, 95
49. Zhou, G., Rappaport, S., Nelson, L., Huang, C. X., et al. (**M. C. Johnson** 14<sup>th</sup> of 31 authors) *Occultations from an Active Accretion Disk in a 72-Day Detached Post-Algol System Detected by K2* 2018, ApJ, 854, 109
50. Siverd, R. J., Collins, K. A., Zhou, G., Gaudi, B. S., et al. (**M. C. Johnson** 6<sup>th</sup> of 47 authors) *KELT-19Ab: A P~4.6 Day Hot Jupiter Transiting a Likely Am Star with a Distant Stellar Companion* 2018, AJ, 155, 35
51. Dai, F., Winn, J. N., Gandolfi, D., Wang, S. X., et al. (**M. C. Johnson** 15<sup>th</sup> of 54 authors) *The Discovery and Mass Measurement of a New Ultra-Short-Period Planet: K2-131b* 2017, AJ, 154, 226
52. Lund, M. B., Rodriguez, J. E., Zhou, G., Gaudi, B. S., et al. (**M. C. Johnson** 6<sup>th</sup> of 49 authors) *KELT-20b: A Giant Planet with a Period of P~3.5 Days Transiting the V~7.6 Early A Star HD 185603* 2017, AJ, 154, 194
53. Gandolfi, D., Barragán, O., Hatzes, A. P., Fridlund, M., et al. (**M. C. Johnson** 7<sup>th</sup> of 44 authors) *The Transiting Multi-Planet System HD 3167: A 5 M<sub>⊕</sub> Super-Earth and a 9 M<sub>⊕</sub> Mini-Neptune* 2017, AJ, 154, 123
54. Gaudi, B. S., Stassun, K. G., Collins, K. A., Beatty, T. G., et al. (**M. C. Johnson** 15<sup>th</sup> of 60 authors) *A Giant Planet Undergoing Extreme-Ultraviolet Irradiation by Its Hot Massive-Star Host* 2017, Nature, 546, 514
55. Mann, A. W., Dupuy, T., Muirhead, P. S., **Johnson, M. C.**, et al. *The Gold Standard: Accurate Stellar and Planetary Parameters for Eight Kepler M Dwarf Systems Enabled by Parallaxes* 2017, AJ, 153, 267
56. Smith, A. M. S., Gandolfi, D., Barragán, O., Bowler, B., et al. (**M. C. Johnson** 22<sup>nd</sup> of 33 authors) *K2-99: A Subgiant Hosting a Transiting Warm Jupiter in an Eccentric Orbit and a Long-Period Companion* 2017, MNRAS, 464, 2708

57. Mann, A. W., Newton, E. R., Rizzuto, A. C., Irwin, J., et al. (**M. C. Johnson** 15<sup>th</sup> of 17 authors) *Zodiacal Exoplanets in Time (ZEIT) III: A Short-Period Planet Orbiting a Pre-Main-Sequence Star in the Upper Scorpius OB Association* 2016, AJ, 152, 61
58. Mann, A. W., Gaidos, E., Mace, G. N., **Johnson, M. C.**, et al. *Zodiacal Exoplanets In Time (ZEIT) I: A Neptune-Sized Planet Orbiting an M4.5 Dwarf in the Hyades Star Cluster* 2016, ApJ, 818, 46
59. Endl, M., Brugamyer, E. J., Cochran, W. D., MacQueen, P. J., et al. (**M. C. Johnson** 10<sup>th</sup> of 19 authors) *Two New Long-Period Giant Planets from the McDonald Observatory Planet Search and Two Stars with Long-Period Radial Velocity Signals Related to Stellar Activity Cycles* 2016, ApJ, 818, 34
60. Matthews, L. D., Le Bertre, T., Gérard, E., & **Johnson, M. C.** *An H I Imaging Survey of Asymptotic Giant Branch Stars* 2013, AJ, 145, 97
61. Stark, C. C., Boss, A. P., Weinberger, A. J., Jackson, B. K., et al. (**M. C. Johnson** 7<sup>th</sup> of 13 authors) *A Search for Exozodiacal Clouds with Kepler* 2013, ApJ, 764, 195
62. Sheffield, A. A., Majewski, S. R., Johnston, K. V., Cunha, K., et al. (**M. C. Johnson** 10<sup>th</sup> of 13 authors) *Identifying Contributions to the Stellar Halo from Accreted, Kicked-out, and In Situ Populations* 2012, ApJ, 761, 161
63. Matthews, L. D., Libert, Y., Gérard, E., Le Bertre, T., **Johnson, M. C.**, & Dame, T. M. *H I Observations of the Asymptotic Giant Branch Star X Herculis: Discovery of an Extended Circumstellar Wake Superposed on a Compact High-Velocity Cloud* 2011, AJ, 141, 60

## Other Publications

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### White Papers, Etc.

1. **Johnson, M. C.**, Zhou, G., Addison, B. C., Ciardi, D. R., et al. *Tracing the Origins and Evolution of Small Planets using Their Orbital Obliquities* 2019, Astro2020 Science White Paper, BAAS, 51, 258
2. Ciardi, D. R., Bean, J., Burt, J., Dragomir, D., et al. (**M. C. Johnson** 6<sup>th</sup> of 12 authors) *Toward Finding Earth 2.0: Masses and Orbits of Small Planets with Extreme Radial Velocity Precision* 2019, Astro2020 Science White Paper, BAAS, 51, 322
3. Dragomir, D., Kempton, E., Bean, J., Crossfield, I., et al. (**M. C. Johnson** a co-signer) *Characterizing the Atmospheres of Irradiated Exoplanets at High Spectral Resolution* 2019, Astro2020 Science White Paper, BAAS, 51, 422
4. Zhou, G., **Johnson, M. C.**, Vanderburg, A., & Gaidos, E. *Orbital Obliquities of Small Planets as a Key to Understanding Planet Formation and Migration* 2019, Exemplar Key Science Program submitted to the US Extremely Large Telescope Program

### Conference Proceedings and Research Notes

1. Krisciunas, K., Suntzeff, N. B., Nagasawa, D. Q., **Johnson, M. C.**, Cochran, W., D., & Endl, M. *Why is the Main Sequence of NGC 2482 So Fat?* 2017, RNAAS, 1, 19
2. **Johnson, M. C.** & Cochran, W. D. *Doppler Tomographic Observations of Kepler-13b* 2013, IAU Symposium 299, 295
3. Matthews, L. D., Gérard, E., **Johnson, M. C.**, Le Bertre, T., Libert, Y., & Reid, M. J. *Tails of Stellar Mass-Loss: VLA Imaging of H I in Circumstellar Envelopes* 2011, in *Why Galaxies Care about AGB Stars II*, ASP Conf. Series, ed. F. Kerschbaum, T. Lebzelter, & R. Wing, 445, 305
4. **Johnson, M. C.** *First Results from the Wesleyan Transiting Exoplanet Program* 2010, Proceedings of the 2010 Undergraduate Symposium on Research in Astronomy, T. Balonek, ed.



5. **Johnson, M. C.** *H I as a Tracer of Circumstellar Envelopes* 2009, Proceedings of the 2009 Undergraduate Symposium on Research in Astronomy, D. Cohen, ed., 39
6. **Johnson, M.**, Kaplan, E., & Miller, J. *A Spectroscopic Study of the Structure of the Milky Way* 2008, Proceedings of the 2008 Undergraduate Symposium on Research in Astronomy, E. C. Moran, ed., 1

*Indexed Conference Abstracts*

1. **Johnson, M. C.**, Rizzuto, A., & Stevens, D. J. *The Spin-Orbit Misalignment Distributions of Hot Jupiters* 2019, Extreme Solar Systems IV, 202.02
2. **Johnson, M. C.**, Rizzuto, A. C., & Smith, E. G. *The Spin-Orbit Misalignments of Hot Jupiters May be Correlated with Stellar Companions, but Not with Metallicity* 2019, BAAS, 233, 124.04
3. Stevens, D. J., Zhou, G., **Johnson, M. C.**, Labadie-Bartz, J., et al. *KELT Discovery of a Fully Convective M Dwarf Transiting a Late-B/Early-A Star* 2019, BAAS, 233, 418.07
4. Thao, P. C., Mann, A. W., Kain, I., Newton, E. R., & **Johnson, M. C.** *The Young Exoplanet K2-25b: Flat Spectrum and High Eccentricity* 2019, BAAS, 233, 247.23
5. **Johnson, M. C.**, Mace, G. N., Kim, H., Kaplan, K. F., McLane, J. N., & Sokal, K. R. *High-Resolution Infrared Spectroscopic Observations of the Upper Scorpius Eclipsing Binary EPIC 203868608* 2017, BAAS, 230, 315.09
6. Gaudi, B. S., Stassun, K. G., Collins, K. A., Beatty, T. G., et al. *KELT-9b: A Giant Planet with the Temperature of a Red Dwarf Star Transiting an Unevolved A0 Star* 2017, BAAS, 230, 102.06
7. Orosz, J. A., Welsh, W. F., Short, D. R., Endl, M., et al. *A Transiting Circumbinary Planet in KIC 10753734* 2016, BAAS, 228, 316.07
8. **Johnson, M. C.** *Planet Candidate Validation and Spin-Orbit Misalignments from Doppler Tomography* 2016, BAAS, 227, 306.01D
9. **Johnson, M. C.**, & Cochran, W. D. *Validation and Characterization of Planets around Hot Stars with Doppler Tomography* 2015, Extreme Solar Systems III, 114.19
10. Cochran, W. D., Endl, M., **Johnson, M. C.**, Lee, B.-C., et al. *PICK2: Planets in Clusters with K2* 2015, DPS, 47, 417.02
11. **Johnson, M. C.**, Cochran, W. D., & Endl, M. *Validation of a Warm Jupiter Transiting a Rapidly Rotating Star* 2015, BAAS, 225, 306.04
12. **Johnson, M. C.** & Cochran, W. D. *Doppler Tomographic Observations of Exoplanet Transits* 2013, BAAS, 221, 343.07
13. **Johnson, M. C.**, Jensen, A. G., & Redfield, S. *The Interstellar Medium in the Kepler Search Volume* 2012, BAAS, 219, 349.16
14. Schaeffer, J., **Johnson, M. C.**, & Redfield, S. *New Data from the Wesleyan Transiting Exoplanet Program* 2012, BAAS, 219, 245.05
15. **Johnson, M. C.**, Leiner, E. M., & Redfield, S. *First Results from the Wesleyan Transiting Exoplanet Program* 2011, BAAS, 217, 343.05
16. **Johnson, M. C.**, & Matthews, L. D. *Very Large Array Observations of Circumstellar Envelopes in the H I 21-cm Line* 2010, BAAS, 42, 266
17. Matthews, L. D., **Johnson, M. C.**, Gérard, E., Le Bertre, T., & Libert, Y. *HI Mapping Of The Circumstellar Envelope Of X Her: An AGB Star Associated With A High-Velocity Cloud?* 2010, BAAS, 42, 266

Last updated January 31, 2023