Michael M. Fausnaugh

MIT Kavli Institute for Astrophysics and Space Research 77 Massachusetts Avenue, 37-535 Cambridge, MA 02139	Office: (617) 324 6404 faus@mit.edu space.mit.edu/home/faus/
 Current Position Reseach Scientist, Massachusetts Institute of Technology Responsibilities: Lead of NASA's TESS mission Data Analysis Working Group Lead for Extra-Galactic Research with TESS at MIT Mission and Observation Planning for TESS 	2017–present
Education Ph.D., Astronomy, The Ohio State University M.S., Astronomy, The Ohio State University B.A., History of Math and Science, Philosophy, St. John's College, Santa Fe, NM	2017 2014 2011
Professional Experience Eight first author papers accepted 69 papers total, 18 minor publications	
Lead author of the Data Release Notes for NASA's TESS mission Invited author for a <i>Nature Astronomy</i> "News and Views" article (unrefereed) Referee for <i>Nature</i> , <i>Nature Astronomy</i> , <i>ApJ</i> , <i>MNRAS</i> ,	2018–present June 2019
Astronomy & Astrophysics, PASP, and Frontiers Organizer for the special session "TESS and Transient Science" at AAS 235	2016–present Jan 2020
Co-Chair for the New England Regional Quasar and AGN Meeting Mentor for 2 graduate students and 4 undergraduates	May 2019 2017–present
Honors and Awards NASA Silver Achievement Medal for the TESS Mission OSU Hayes Research Forum, 2nd place Oral Presentation OSU Markowitz Award for Excellence in Observational Astronomy OSU Graduate School Presidential Fellow St. John's College Award for Sustained Academic Excellence St. John's College ARIEL Internship	Sept 2019 March 2017 2016–2017 2016–2017 May 2011 May 2011
 Presentations Invited Talks TESS Science Conference 2, MIT. Cambridge, MA. AAS 235 Special Session. Honolulu, HI. Science Seminar. Northrop Grumman Innovation Systems, Sterling, VA. CCAP Summer Seminar, The Ohio State University. Columbus, OH. Galaxy and Cosmology Seminar. Harvard-Smithsonian Center for Astrophysics Cambridge, MA. TESS Contributed Research	Aug 2021 Jan 2020 April 2019 June 2016 . Nov 2016
TESS Contributed Research	

6. TESS Science Conference. MIT. Cambridge, MA.

Aug 2019

7.	Meeting of the American Astronomical Society #233. Seattle, WA.	Jan 2019
8.	TESS Science Meeting. MIT. Cambridge, MA.	Oct. 2018
AGN (Contributed Research	
9.	NERQUAM 2019. MIT. Cambridge, MA.	May 2019
10.	AGN STORM Research Meeting. Atlanta, GA.	Aug 2017
11.	Hayes Research Forum. The Ohio State University. Columbus, OH.	March 2017
12.	AGN Research Group Meeting. Space Telescope and Science Institute. Balti-	Feb 2017
	more, MD.	
13.	MIT Kavli Institute Research Lunch. Cambridge, MA.	Jan 2017
14.	Meeting of the American Astronomical Society #229. Grapevine, TX.	Jan 2017
15.	AGN STORM Workshop. Reykjavik, Iceland.	July 2016
16.	Great Lakes Quasar Symposium, Western University. London, Ontario.	May 2016
17.	Narayan Research Group, Harvard-Smithsonian Center for Astrophysics. Cam-	April 2016
	bridge, MA.	
18.	Quasar Research Group Meeting, Harvard-Smithsonian Center for Astrophysics.	April 2016
	Cambridge, MA.	
19.	AGN Research Group Meeting. Space Telescope and Science Institute. Balti-	March 2016
	more, MD.	
20.	AGN STORM Workshop. Columbus, OH.	July 2015
21.	Meeting of the American Astronomical Society #225. Seattle, WA.	Jan 2015
22.	AGN Research Retreat. University of St. Andrews. St. Andrews, Scotland.	Jan 2015
23.	Catolica Workshop. The Ohio State University. Columbus, OH.	May 2014
Mento	oring and Teaching	
Mentor for MIT Graduate Students: 2019–present		
Guided dissertations, outlined and managed research projects.		
	Akshata Krishnamurthy (2019), Rahul Jayaraman (2019–present)	
	visor through MIT Undergraduate Research Opportunity Program:	2017–present
-	signed and managed research projects, introduced students to	zor, present
	st research practices.	
	Nadia Dimitrova (2017), Ally Hong (2018–2021), Jason Yang (2019–present),	
	Vicky Li (2021), Muhammad Abdullah (2021)	
	nate Teaching Associate, The Ohio State University:	2012-2013
	aded exams, designed and led review sessions.	
• ,	Astro 2291, Intro to Astronomy and Planets (calculus-based, Autumn 2012)	
• .	Astro 1161, Intro to Astronomy and the Solar System (Spring 2013)	
Head	Laboratory Assistant, St. John's College:	2010–2011
	pervised and demonstrated classroom practica, developed and documented	
pedagogical experiments.		
	atory Assistant, St. John's College:	2009–2010
Su	pervised and demonstrated classroom practica.	

Observing Experience

Space-based 2018–present

Transiting Exoplanet Survey Satellite

Monthly mission planning:

- Selected targets and guide stars
- Performed quality checks, diagnostics, and engineering validation
- Assessed and reported guiding performance and pointing stability

Ground-based 2011–2016

Total: 119 nights (81 queue, 38 classical)

Large Binocular Telescope:54 nights2013-2016MDM 2.4m Hiltner:24 nights2012-2015MDM 1.3m McGraw:18 nights2013-2014CTIO SMARTS 1.3m:16 nights2015VERITAS (γ -ray observatory):7 nights2011

Selected Outreach

MIT IAP session: Data Visualization Clinic and Hack Day	Jan 2020
MIT IAP session: Constellation Hunt with TESS FFIs	Jan 2020
Guided tour of the MIT TESS Payload Operations Center	July 2018
AAS #231: TESS Hyperwall Presentation,	Jan 2018
Upper Arlington, OH: Library Summer Astronomy Series	June 2014, 2015, 2016
OSU Planetarium: Presented 2-4 planetarium shows per month.	2013–2016
OSU Planetarium:	2013–2015

Developed content for planetarium shows.

Scripted digital presentations in Starry Night 8

- OSU Planetarium Grand Reopening, The Sky Tonight.
- Journey through the Solar System.
- The Autumn Sky: Hidden Treasures.

Spitz Summer Institute planetarium workshop. Chadds Ford, PA

July 2013

Publications

First Author

- 1. "Early-time Light Curves of Type Ia Supernovae Observed with TESS", M. M. Fausnaugh et al. (22 authors), *The Astrophysical Journal*, 908:51 (2021).
- 2. "The TESS Mission Target Selection Procedure", Michael Fausnaugh et al. (64 authors), *Publications of the Astronomical Society of the Pacific*, 133:095002 (2021).
- 3. "Continuum Reverberation Mapping of the Accretion Disks in Two Seyfert 1 Galaxies", M. M. Fausnaugh et al. (72 authors), *The Astrophysical Journal*, 854:107 (2018).
- 4. "A New Approach to the Internal Calibration of Reverberation-Mapping Spectra", M. M. Fausnaugh, *Publications of the Astronomical Society of the Pacific*, 129:024007 (2017).
- 5. "Reverberation Mapping of Optical Emission Lines in Five Active Galaxies", M. M. Fausnaugh et al. (71 authors), *The Astrophysical Journal*, 840:97 (2017).
- 6. "Continuum Reverberation Mapping of AGN Accretion Disks", Michael M. Fausnaugh et al. (5 authors), Frontiers in Astronomy and Space Sciences, 4:55 (2017).

- 7. "Space Telescope and Optical Reverberation Mapping Project. III. Optical Continuum Emission and Broadband Time Delays in NGC 5548", M. M. Fausnaugh et al. (97 authors), *The Astrophysical Journal*, 821:56 (2016).
- 8. "The Cepheid distance to the maser-host galaxy NGC 4258: studying systematics with the Large Binocular Telescope", M. M. Fausnaugh et al. (6 authors), *Monthly Notices of the Royal Astronomical Society*, 450:3597 (2015).

Major Contributing Author

Contributed major analysis or reduced data

- 9. "The Cepheid Distance to the Seyfert 1 Galaxy NGC 4151", W. Yuan et al. (18 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 902:26 (2020).
- 10. "An extreme amplitude, massive heartbeat system in the LMC characterized using ASAS-SN and TESS", T. Jayasinghe et al. (6 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 489:4705 (2019).
- 11. "Velocity-resolved Reverberation Mapping of Five Bright Seyfert 1 Galaxies", G. De Rosa et al. (102 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 866:133 (2018).
- 12. "Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548", L. Pei et al. (156 authors, including M. M. Fausnaugh), *The Astro-physical Journal*, 837:131 (2017).
- 13. "Swift Monitoring of NGC 4151: Evidence for a Second X-Ray/UV Reprocessing", R. Edelson et al. (44 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 840:41 (2017).
- 14. "Spitzer Space Telescope Measurements of Dust Reverberation Lags in the Seyfert 1 Galaxy NGC 6418", Billy Vazquez et al. (25 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 801:127 (2015).

Contributing Author

TESS: Difference Imaging Pipeline

Contributed analysis

- 15. "GRB 191016A: A Long Gamma-Ray Burst Detected by TESS", Krista Lynne Smith et al. (11 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 911:43 (2021).
- 16. "ASASSN-14ko is a Periodic Nuclear Transient in ESO 253-G003", Anna V. Payne et al. (27 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 910:125 (2021).
- 17. "High-cadence, early-time observations of core-collapse supernovae from the TESS prime mission", P. J. Vallely et al. (5 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 500:5639 (2021).
- 18. "The ASAS-SN catalogue of variable stars VI: an all-sky sample of δ Scuti stars", T. Jayasinghe et al. (13 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 493:4186 (2020).
- 19. "The New EXor Outburst of ESO-HÎś 99 Observed by Gaia ATLAS and TESS", Klaus W. Hodapp et al. (14 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 158:241 (2019).
- 20. "Discovery and Early Evolution of ASASSN-19bt, the First TDE Detected by TESS", Thomas W. S. Holoien et al. (26 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 883:111 (2019).
- 21. "ASASSN-18tb: a most unusual Type Ia supernova observed by TESS and SALT", P. J. Vallely et al. (19 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 487:2372 (2019).

TESS Exoplanets

Authorship acknowledges direct support of the TESS mission

22. "A large sub-Neptune transiting the thick-disk M4 V TOI-2406", R. D. Wells et al. (74 authors, including M. M. Fausnaugh), *Astronomy & Astrophysics*, 653:17 (2021).

- 23. "TOI-1278 B: SPIRou Unveils a Rare Brown Dwarf Companion in Close-in Orbit around an M Dwarf", Étienne Artigau et al. (42 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 162:144 (2021).
- 24. "The TESS Objects of Interest Catalog from the TESS Prime Mission", Natalia M. Guerrero et al. (105 authors, including M. M. Fausnaugh), *The Astrophysical Journal Supplement Series*, 254:39 (2021).
- 25. "TOI-811b and TOI-852b: New Transiting Brown Dwarfs with Similar Masses and Very Different Radii and Ages from the TESS Mission", Theron W. Carmichael et al. (33 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 161:97 (2021).
- 26. "A nearby transiting rocky exoplanet that is suitable for atmospheric investigation", T. Trifonov et al. (69 authors, including M. M. Fausnaugh), *Science*, 371:1038 (2021).
- 27. "HD 219134 Revisited: Planet d Transit Upper Limit and Planet f Transit Nondetection with ASTERIA and TESS", Sara Seager et al. (41 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 161:117 (2021).
- 28. "The Multiplanet System TOI-421", Ilaria Carleo et al. (113 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 160:114 (2020).
- 29. "HD 191939: Three Sub-Neptunes Transiting a Sun-like Star Only 54 pc Away", Mariona Badenas-Agusti et al. (41 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 160:113 (2020).
- 30. "KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS", Romy Rodríguez Martínez et al. (92 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 160:111 (2020).
- 31. "A remnant planetary core in the hot-Neptune desert", David J. Armstrong et al. (95 authors, including M. M. Fausnaugh), *Nature*, 583:39 (2020).
- 32. "TESS Data for Asteroseismology: Timing Verification", Carolina von Essen et al. (14 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 160:34 (2020).
- 33. "Three short-period Jupiters from TESS. HIP 65Ab, TOI-157b, and TOI-169b", L. D. Nielsen et al. (77 authors, including M. M. Fausnaugh), *Astronomy & Astrophysics*, 639:17 (2020).
- 34. "TOI-132 b: A short-period planet in the Neptune desert transiting a V = 11.3 G-type star", Matías R. Díaz et al. (52 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 493:973 (2020).
- 35. "Stellar Flares from the First TESS Data Release: Exploring a New Sample of M Dwarfs", Maximilian N. Günther et al. (25 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 159:60 (2020).
- 36. "Hot, rocky and warm, puffy super-Earths orbiting TOI-402 (HD 15337)", Xavier Dumusque et al. (33 authors, including M. M. Fausnaugh), *Astronomy & Astrophysics*, 627:22 (2019).
- 37. "TESS Hunt for Young and Maturing Exoplanets (THYME): A Planet in the 45 Myr Tucana-Horologium Association", Elisabeth R. Newton et al. (52 authors, including M. M. Fausnaugh), *The Astrophysical Journal Letters*, 880:L17 (2019).
- 38. "A super-Earth and two sub-Neptunes transiting the nearby and quiet M dwarf TOI-270", Maximilian N. Günther et al. (60 authors, including M. M. Fausnaugh), *Nature Astronomy*, page p. 1099-1108 Jul 2019.
- 39. "WASP-4b Arrived Early for the TESS Mission", L. G. Bouma et al. (24 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 157:217 (2019).
- 40. "TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844", Roland Vanderspek et al. (73 authors, including M. M. Fausnaugh), *The Astrophysical Journal Letters*, 871:L24 (2019).
- 41. "TESS Discovery of a Transiting Super-Earth in the pi Mensae System", Chelsea X. Huang et al. (66 authors, including M. M. Fausnaugh), *The Astrophysical Journal Letters*, 868:L39 (2018).

AGN STORM

Co-I status

- 42. "Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548", Keith Horne et al. (155 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 907:76 (2021).
- 43. "Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548", P. R. Williams et al. (158 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 902:74 (2020).
- 44. "Space Telescope and Optical Reverberation Mapping Project. XI. Disk-wind Characteristics and Contributions to the Very Broad Emission Lines of NGC 5548", M. Dehghanian et al. (25 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 898:141 (2020).
- 45. "Space Telescope and Optical Reverberation Mapping Project. X. Understanding the Absorption-line Holiday in NGC 5548", M. Dehghanian et al. (30 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 877:119 (2019).
- 46. "Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum", G. A. Kriss et al. (167 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 881:153 (2019).
- 47. "Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy", S. Mathur et al. (150 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 846:55 (2017).
- 48. "Space Telescope and Optical Reverberation Mapping Project.VI. Reverberating Disk Models for NGC 5548", D. Starkey et al. (93 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 835:65 (2017).
- 49. "Space Telescope and Optical Reverberation Mapping Project. IV. Anomalous Behavior of the Broad Ultraviolet Emission Lines in NGC 5548", M. R. Goad et al. (101 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 824:11 (2016).
- 50. "Space Telescope and Optical Reverberation Mapping Project. II. Swift and HST Reverberation Mapping of the Accretion Disk of NGC 5548", R. Edelson et al. (50 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 806:129 (2015).
- 51. "Space Telescope and Optical Reverberation Mapping Project.I. Ultraviolet Observations of the Seyfert 1 Galaxy NGC 5548 with the Cosmic Origins Spectrograph on Hubble Space Telescope", G. De Rosa et al. (50 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 806:128 (2015).

AGN Misc

Co-I status

- 52. "The Cepheid Distance to the Narrow-line Seyfert 1 Galaxy NGC 4051", W. Yuan et al. (18 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 913:3 (2021).
- 53. "On reverberation mapping lag uncertainties", Z. Yu et al. (8 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 491:6045 (2020).
- 54. "The first spectroscopic dust reverberation programme on active galactic nuclei: the torus in NGC 5548", H. Landt et al. (19 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 489:1572 (2019).
- 55. "Anomalous behaviour of the UV-optical continuum bands in NGC 5548", M. R. Goad et al. (11 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 486:5362 (2019).
- 56. "The First Swift Intensive AGN Accretion Disk Reverberation Mapping Survey", R. Edelson et al. (35 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 870:123 (2019).
- 57. "X-ray/UV/optical variability of NGC 4593 with Swift: reprocessing of X-rays by an extended reprocessor", I. M. McHardy et al. (28 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 480:2881 (2018).

- 58. "The Structure of the Broad-line Region in Active Galactic Nuclei. II. Dynamical Modeling of Data From the AGN10 Reverberation Mapping Campaign", C. J. Grier et al. (7 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 849:146 (2017).
- 59. "Swift/UVOT Grism Monitoring of NGC 5548 in 2013: An Attempt at MgII Reverberation Mapping", E. M. Cackett et al. (7 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 810:86 (2015).
- 60. "The Typecasting of Active Galactic Nuclei: Mrk 590 no Longer Fits the Role", K. D. Denney et al. (12 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 796:134 (2014).

Spitzer Microlensing Campaign

Contributed observations

- 61. "Ground-based Parallax Confirmed by Spitzer: Binary Microlensing Event MOA-2015-BLG-020", Tianshu Wang et al. (91 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 845:129 (2017).
- 62. "OGLE-2015-BLG-1482L: The First Isolated Low-mass Microlens in the Galactic Bulge", S. -J. Chung et al. (42 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 838:154 (2017).
- 63. "Toward a Galactic Distribution of Planets. I. Methodology and Planet Sensitivities of the 2015 High-cadence Spitzer Microlens Sample", Wei Zhu et al. (40 authors, including M. M. Fausnaugh), *The Astronomical Journal*, 154:210 (2017).
- 64. "OGLE-2015-BLG-0196: Ground-based Gravitational Microlens Parallax Confirmed by Space-based Observation", C. Han et al. (26 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 834:82 (2017).
- 65. "The First Simultaneous Microlensing Observations by Two Space Telescopes: Spitzer and Swift Reveal a Brown Dwarf in Event OGLE-2015-BLG-1319", Y. Shvartzvald et al. (99 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 831:183 (2016).
- 66. "OGLE-2015-BLG-0479LA,B: Binary Gravitational Microlens Characterized by Simultaneous Ground-based and Space-based Observations", C. Han et al. (68 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 828:53 (2016).
- 67. "The Spitzer Microlensing Program as a Probe for Globular Cluster Planets: Analysis of OGLE-2015-BLG-0448", RadosÅĆaw Poleski et al. (92 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 823:63 (2016).
- 68. "Spitzer Observations of OGLE-2015-BLG-1212 Reveal a New Path toward Breaking Strong Microlens Degeneracies", V. Bozza et al. (108 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 820:79 (2016).
- 69. "Spitzer Microlens Measurement of a Massive Remnant in a Well-separated Binary", Y. Shvartzvald et al. (73 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 814:111 (2015).
- 70. "Spitzer IRAC Photometry for Time Series in Crowded Fields", S. Calchi Novati et al. (27 authors, including M. M. Fausnaugh), *The Astrophysical Journal*, 814:92 (2015).

Miscellaneous

Contributed observations

- 71. "XMM-Newton observations of the peculiar cataclysmic variable Lanning 386: X-ray evidence for a magnetic primary", M. R. Kennedy et al. (5 authors, including M. M. Fausnaugh), *Monthly Notices of the Royal Astronomical Society*, 466:2202 (2017).
- 72. "SN 2012au: A Golden Link between Superluminous Supernovae and Their Lower-luminosity Counterparts", Dan Milisavljevic et al. (28 authors, including M. M. Fausnaugh), *The Astrophysical Journal Letters*, 770:L38 (2013).

Unrefereed Publications

73. "Calibrated Full-frame Images for the TESS Quick Look Pipeline", Michael M. Fausnaugh et al. (4 authors), *Research Notes of the AAS*, 4:251 (2020).

- 74. GRB Coordinates Network, Circular Service, No. 25982, Oct 2019
- 75. "Big surprises from small supermassive black holes", Michael Fausnaugh, *Nature Astronomy*, page p. 694-695 Jun 2019.
- 76. American Astronomical Society, AAS Meeting #233, id.202.08, Jan 2019
- 77. "A Simulated Data Set for the Transiting Exoplanet Survey Satellite", Jon M. Jenkins et al. (18 authors, including M. M. Fausnaugh), *Research Notes of the American Astronomical Society*, 2:47 (2018).
- 78. American Astronomical Society, AAS Meeting #231, id. 439.12, Jan 2018
- 79. American Astronomical Society, AAS Meeting #231, id. 439.09, Jan 2018
- 80. American Astronomical Society, AAS Meeting #231, id. 439.11, Jan 2018
- 81. The Astronomer's Telegram, No. 9146, Jun 2016
- 82. The Astronomer's Telegram, No.8356, Dec 2015
- 83. The Astronomer's Telegram, No.8352, Dec 2015
- 84. The Astronomer's Telegram, No.6158, May 2014
- 85. The Astronomer's Telegram, No.6143, May 2014
- 86. Central Bureau Electronic Telegrams, No. 3549, Jun 2013
- 87. The Astronomer's Telegram, No.5110, Jun 2013
- 88. The Astronomer's Telegram, No.5102, Jun 2013
- 89. American Astronomical Society, AAS Meeting #229, id.414.02, Jan 2017
- 90. American Astronomical Society, AAS Meeting #225, id.103.02, Jan 2015