

Benjamin M. Tofflemire
51 Pegasi b Postdoctoral Fellow

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RESEARCH INTERESTS	Formation and evolution of stars and planets, structure and evolution of protoplanetary disks, precise measurements of fundamental stellar parameters, signatures of stellar magnetism	
SUMMARY	Funding: \$653,200 in awards Publications: <ul style="list-style-type: none">◦ First Author Publications: 9 210+ citations◦ Total Refereed Publications: 43 3500+ citations◦ H-Index: 19◦ Student Publications: 4◦ Consistent growth in publications and citations over the past 5 years Students: 8 undergrads, 6 from underrepresented groups Mentoring: Lead UT's TAURUS mentor training, invited to lead workshop for NSF fellows Teaching: 1 new undergrad-level course co-prep, 2 semesters leading 100-level mandatory TA sections, 10+ guest lectures Observing Experience: <ul style="list-style-type: none">◦ Space-based: IR, X-ray: <i>Spitzer</i>, <i>XMM-Newton</i>, <i>Chandra</i>◦ Ground-based: Sub-mm, IR, Optical: ALMA, Gemini South, SALT, including 800+ hours of on-site photometry and spectroscopy	
APPOINTMENTS	51 Pegasi b Postdoctoral Fellow, UT-Austin – Faculty Host: Prof. Adam Kraus Postdoctoral Fellow, UT-Austin – Advisor: Prof. Adam Kraus Research Assistant, UW-Madison – Advisor: Prof. Robert Mathieu Research Assistant, UW-Madison – Advisor: Dr. Marina Orio Research Assistant, U. of Washington – Advisor: Dr. J. Wisniewski & Prof. S. Hawley	2020-present 2018-2020 2013-2018 2011-2013 2010-2011
EDUCATION	University of Wisconsin-Madison Ph.D. Astronomy, <i>Accretion Dynamics in Pre-Main Sequence Binary Stars</i> M.S. Astronomy, Physics Minor University of Washington B.S. Astronomy & Physics	Madison, WI July 2018 June 2013 Seattle, WA June 2011
PI-GRANTS & AWARDS	Heising-Simons Foundation Early-Faculty Development Award <i>TESS</i> Cycle 4 Guest Investigator Program 51 Pegasi b Postdoctoral Fellowship in Planetary Astronomy <i>TESS</i> Cycle 3 Guest Investigator Program University of Wisconsin Jansky Award for Outstanding Research UW-Madison Graduate School Conference Presentation Award Sigma Xi Grants in Aid of Research University of Wisconsin Bautz Travel Fellowship University of Wisconsin Vilas Research Travel Grant University of Washington's Astronomy Bear Prize Recipient University of Washington Mary Gates Research Scholarship	(\$125,000) 2022 (\$70,000) 2021 (\$375,000) 2020 (\$75,000) 2020 2017 (\$2,400) 2015, 2016, 2017 (\$2,500) 2015 (\$1,200) 2015 (\$600) 2015 2011 (\$4,000) 2010, 2011
SUCCESSFUL OBSERVING PROPOSALS	ALMA Cycle 7 <ul style="list-style-type: none">◦ PI: Planet Formation and Survival in Newly-Forming Binary Systems (16 hr) Spitzer DDT <ul style="list-style-type: none">◦ PI: Precision Measurements of Stellar Radii in Young Eclipsing Binaries (94 hr: Priority 1)	

Gemini-South

- **PI:** The Empirical Mass-Radius Relation from 10 to 600 Myr (24 hr: Band 1)
- **PI:** Determining Orbital Solutions for Young Eclipsing Binaries (30 hr: Band 1)

Southern African Large Telescope

- **PI:** Time-Series Spectroscopy of Pre-Main Sequence Binaries (42.5 hr: P0/P1)

WIYN 3.5-m Telescope

- **PI:** Radial velocity survey of accreting stars in NGC 2264 (2 nights)
- **PI:** Time-series spectroscopy of flare stars in Pleiades star cluster (3 nights)
- **Co-I:** WIYN Open Cluster Study radial-velocity survey (90+ nights over 8 semesters)

McDonald 2.7m

- **PI:** Testing the Binary Origin of Sub-Subgiants (45 nights over 5 trimesters)

Las Cumbres Observatories Global Telescope Network

- **PI:** Determining The Ages Of Benchmark Systems By Investigating Their Kinematic Neighbors (450 hr over 5 semesters)
- **Co-I:** Time-series photometry of Pre-Main Sequence Binaries (980 hr over 5 semesters)

SMARTS 1.3m

- **PI:** Time-series photometry of Pre-Main Sequence Binaries (107 hours over 4 semesters)
- **PI:** Time-series spectroscopy of Pre-Main Sequence Binary V4046 Sgr (42 hs)

WIYN 0.9-m Telescope

- **PI:** High Cadence Photometry of Pre-Main Sequence Binary DQ Tau (16 nights)

APO: ARCSAT 0.5m

- **PI:** High Cadence Photometry of Pre-Main Sequence Binary DQ Tau (16 nights)

STUDENT
RESEARCH**Mikayla Wilson (TCU): TAURUS Scholar**

2021

- Characterization of a Solar Mass Eclipsing Binary
- Led Research Note to the AAS
- Poster to be presented at the 2023 Winter AAS
- Currently: Astronomy graduate student at UC Santa Cruz

Shannon Fitton (UT)

2020-2022

- Determining the Orbital Parameters of Disk-Bearing Binary Systems
- Led Research Note to the AAS
- Co-author on a publication in prep
- Currently: Astronomy graduate student at UNC Chapel Hill

Jeremy Buchanan (UT)

2020-2021

- Development of a python-based ensemble photometry package
- Senior Thesis Advisor
- Co-author on a publication in prep
- Currently: Data Scientist

Miguel Gutierrez (Florida Inst. Tech.): TAURUS Scholar

2019

- Constraining Temperature and Density of Accretion Flows in T Tauri Stars from Brackett Line Ratios
- Co-Author on ApJ Publication (Kidder et al. 2021)
- Led Research Note to the AAS
- 2020 Winter AAS Poster
- Currently: Data Scientist for Dell Technologies

Victoria Catlett (UT-Dallas): UT REU

2019

- Near-infrared Accretion Diagnostics of Young Stellar Objects
- Co-Author on ApJ Publication (Kidder et al. 2021)
- Led Research Note to the AAS
- 2020 Winter AAS Poster
- Currently: Greenbank Telescope Software Engineer

	Nathan Eggen (UW-Madison)	2018
	<ul style="list-style-type: none"> ○ Accretion in the Pre-Main Sequence Binary V4046 Sgr ○ Senior Thesis Advisor ○ Currently: University of Minnesota Astronomy MA, Data Scientist 	
	Sarah Kessler (Rowan University): UW-Madison REU	2017
	<ul style="list-style-type: none"> ○ Identifying Triple Companions to Spectroscopic Binaries with HST ○ Currently: Ohio State University Astronomy Ph.D., Data Scientist at Near 	
MENTORING TRAINING	Workshops Led	
	<ul style="list-style-type: none"> ○ Invited to lead Mentor Training Workshop for NSF AAPF Fellow Symposium ○ Lead Mentor Training Workshop for UT's TAURUS and REU research programs 	2023 2021,2022
	Workshops Attended	
	<ul style="list-style-type: none"> ○ DELTA (CIRTL) Mentor Training Program 	2014
SERVICE	Professional Service:	
	<ul style="list-style-type: none"> ○ Journal Referee: ApJ, AJ, MNRAS ○ NASA ADAP Review Panel ○ NASA ROSES Review Panel Secretary 	2020 2015
	Departmental Service:	
	<ul style="list-style-type: none"> ○ ExoUpdate Curator (weekly science meetup) ○ Hobby-Eberly Telescope Time Allocation Committee (3 times annually) ○ Postdoc-Faculty Liaison (Elected) ○ Second Year Defense Committee for UT Graduate Student, Kendall Sullivan ○ BashFest 2019 – SOC & LOC ○ UT's ISM/Star Formation/Exoplanet Seminar – Host & Organizer ○ UW-Madison Astronomy Graduate Admissions Committee (Elected) ○ Graduate-Faculty Liaison (Elected) ○ Stars Coffee Curator (weekly science meetup) ○ Undergraduate-Faculty Liaison (Faculty Nomination) 	2019-present 2019-present 2021-2022 2019 2019 2019 2015-2016 2014-2015 2013-2018 2010-2011
	Collaboration Service:	
	<ul style="list-style-type: none"> ○ Organizer of the THYME Collaboration Meeting (virtual) 	2020
TEACHING	Course Development & Teaching	2018
	Astronomy 140: The Exoplanet Revolution	University of Wisconsin-Madison
	<ul style="list-style-type: none"> ○ Co-developed and co-taught intro-level, inquiry-based course with Prof. Mathieu 	
	Guest Lectures	
	<ul style="list-style-type: none"> ○ 10+ guest lectures at the 100, 200 level utilizing various teaching styles: lecture, inquiry-based, flipped classroom 	
	Teaching Assistant	2012, 2015
	Astronomy 103: The Evolving Universe	University of Wisconsin-Madison
	<ul style="list-style-type: none"> ○ Taught six mandatory discussion sections per week, which included developing lesson plans and in-class activities ○ Received <i>University Housing's Honored TA Award</i> 	
DEI EFFORTS	Social-Justice Journal Club	2021
	<ul style="list-style-type: none"> ○ Co-creator and leader of a postdoc centered learning community 	
	Postdoc Mentor Meetup	2021 - present
	<ul style="list-style-type: none"> ○ Co-creator and leader of quarterly meetings to share mentor training resources focused on inclusivity and equity 	
	Mentor for UT TAURUS and REU Programs (UT, UW-Madison)	2016 - present
	<ul style="list-style-type: none"> ○ Mentor for high-impact programs for under-represented groups ○ Mentored 4 students via these programs; 3 have produced written products on their research 	

OUTREACH	Astronomy on Tap - Austin	2018, 2019
	◦ Two public talks	
	Universe in the Park	2011-2018
	◦ Host public talks and observing at Wisconsin State Parks (>15 events hosted)	
	Washburn Public Observing Nights	2011-2018
	◦ Host public and private observing nights at the historic Washburn observatory (>15 events hosted)	
	UW-Madison Space Place	2016
◦ Invited lecture to amateur astronomy community (televised)		
Girls Inc. Planetarium Shows	2014	
◦ Presented planetarium shows to Madison's local chapter of Girls Inc.		
Senior Summer School	2014	
◦ Invited lecture to the Senior Summer School educational, vacation program	Chicago, IL	
SOFTWARE	saphires - Stellar Analysis in Python for HIGH RESolution Spectroscopy	2019
	◦ Primary Developer github	
	◦ A python package containing tools for spectral decomposition and stellar RV measurements	
	comove	2021
	◦ Contributor github	
	◦ A python package for finding co-moving neighbors to a target star and returning useful information regarding youth	
PROFESSIONAL PRESENTATIONS	51 Pegasi b Summit	2022
	Contributed Talk	Sausalito, CA
	TESS Science Conference II	2021
	Invited Splinter Talk, RECORDING	Virtual
	Cool Stars 20	2018
	Plenary Talk, RECORDING	Boston, MA
	Lowell Observatory	2018
	Colloquium (Invited)	Flagstaff, AZ
	AAS 231	2018
	Dissertation Talk	National Harbor, MD
	Vanderbilt University	2017
	Astrophysics Lunch	Nashville, TN
	Institute for Theory and Computation (Harvard-CfA)	2017
	Stars and Planets Seminar (Invited)	Cambridge, MA
	American Museum of Natural History	2017
Astronomy Seminar	New York, NY	
Space Telescope Science Institute	2017	
Exoplanets, Star and Planet Formation Seminar	Baltimore, MD	
University of Texas-Austin	2016	
Stars Seminar (Invited)	Austin, TX	
Cool Stars 19	2016	
Contributed Talk	Uppsala, Sweden	
Science with SALT	2015	
Contributed Talk	Stellenbosch, South Africa	

BIBLIOGRAPHY

PEER-REVIEWED
PUBLICATIONS
(H-INDEX: 19)

First Author Publications | 210+ citations

9. **Tofflemire**, B. M., Kraus, A. L., Mann, A.W., et al. (12 co-authors) 2022, AJ, submitted | [ADS](#)
A Low-Mass, Pre-Main Sequence Eclipsing Binary in the 40 Myr Columba Association – Fundamental Stellar Parameters and Modeling the Effect of Star Spots
8. **Tofflemire**, B., Rizzuto, A., Newton, E., et al. (24 co-authors) 2021, AJ, 161, 171 | [ADS](#) | 20 cit.
TESS Hunt for Young and Maturing Exoplanets (THYME). V. A Sub-Neptune Transiting a Young Star in a Newly Discovered 250 Myr Association
7. **Tofflemire**, B., Mathieu, R., Johns-Krull, C. 2019, AJ, 158, 245 | [ADS](#) | 19 cit.
Accretion Kinematics in the T Tauri Binary TWA 3A: Evidence for Preferential Accretion onto the TWA 3A Primary
6. **Tofflemire**, B., Mathieu, R., Herczeg, G., Akeson, R., & Ciardi, D. 2017b, ApJL, 842, L12 | [ADS](#) | 30 cit.
Pulsed Accretion in the T Tauri Binary TWA 3A
5. **Tofflemire**, B., Mathieu, R., Ardila, D., Akeson, R., Ciardi, D., Johns-Krull, C., Herczeg, G., & Quijano-Vodniza, A. 2017a, ApJ, 835, 8 | [ADS](#) | 30 cit.
Accretion and Magnetic Reconnection in the Classical T Tauri Binary DQ Tau
4. **Tofflemire**, B., Gosnell, N., Mathieu, R., & Platais, I. 2014, AJ, 148, 61 | [ADS](#) | 31 cit.
WIYN Open Cluster Study. LIX. Radial Velocity Membership of the Evolved Population of the Old Open Cluster NGC 6791
3. **Tofflemire**, B., Orio, M., Page, K., Osborne, J., Ciroi, S., Cracco, V., Di Mille, F., & Maxwell, M. 2013, ApJ, 779, 22 | [ADS](#) | 22 cit.
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2. **Tofflemire**, B., Wisniewski, J., Kowalski, A., Schmidt, S., Kundurthy, P., Hilton, E., Holtzman, J., & Hawley, S. 2012, AJ, 143, 12 | [ADS](#) | 21 cit.
The Implications of M Dwarf Flares on the Detection and Characterization of Exoplanets at Infrared Wavelengths
1. **Tofflemire**, B., Burkhart, B., & Lazarian, A. 2011, ApJ, 736, 60 | [ADS](#) | 37 cit.
Interstellar Sonic and Alfvénic Mach Numbers and the Tsallis Distribution

Significant Contributions | 220+ citations | (students underlined>

16. Pérez Paolino, F., Bary, J., Petersen, M., et al. (including **Tofflemire** and 3 co-authors) et al. 2022, AJ, submitted | draft available upon request
Correlating Changes in Spot Filling Factors with Stellar Rotation: The Case of LkCa 4
15. Sun, Q., Wang, S., Mann, A., **Tofflemire**, B., et al. (2 co-authors) 2022, AJ, submitted | draft available upon request
The Sub-Neptune TOI-251b in MELANGE-5 - a Newly Discovered ~200 Myr Young Stellar Association
14. Wood, M., Mann, A., Barber, M., Bush, J., Kraus, A., **Tofflemire**, B., et al. (31 co-authors), 2022, AJ, submitted | draft available upon request
TESS Hunt for Young and Maturing Exoplanets (THYME) IX: a 27 Myr extended population of Lower-Centaurus Crux with a transiting two-planet system

13. Krolkowski, D., Kraus, A., **Tofflemire**, B. & Morley, C. 2022, AJ, submitted | draft available upon request
The Strength and Variability of the Helium 10830 Å Triplet in Young Stars, and Implications for Exosphere Detection
12. Kerr, R., Kraus, A., Murphy, S., Krolkowski, D., Offner, S., **Tofflemire**, B., & Rizzuto, A. 2022, AJ, accepted | [ADS](#)
SPYGLASS-II: The Multi-Generational and Multi-Origin Star Formation History of Cepheus Far North
11. Barber, M., Mann, A., Johnathan, B., **Tofflemire**, B., et al. (7 co-authors) 2022, AJ, 164, 88 | [ADS](#) | 1 cit.
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10. Newton, E., Rampalli, R., Kraus, A., et al. (including **Tofflemire** and 36 co-authors) 2022, AJ 164, 115 | [ADS](#) | 2 cit.
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9. Mann, A., Wood, M., Schmidt, S., et al. (including **Tofflemire** and 47 co-authors) 2022, AJ, 163, 156 | [ADS](#) | 19 cit.
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8. Gosnell, N., Gully-Santiago, M., Leiner, E., & **Tofflemire**, B. 2022, ApJ, 925, 5 | [ADS](#) | 4 cit.
Observationally Constraining the Starspot Properties of Magnetically Active M67 Sub-Subgiant S1063
7. Kidder, B., Mace G., Lopez-Valdivia, R., Sokal, K., [Catlett](#), V., [Gutiérrez](#), M., **Tofflemire**, B., & Jaffee, D. 2021, ApJ, 922, 27 | [ADS](#)
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6. Newton, E., Mann, A., Kraus, A., et al. (including **Tofflemire** and 49 co-authors) 2021, AJ, 161, 65 | [ADS](#) | 23 cit.
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5. Waalkes, W., Berta-Thompson, Z., Collins, K., Feinstein, A., **Tofflemire**, B., et al. (36 co-authors) 2021, AJ, 161, 13 | [ADS](#) | 8 cit.
TOI 122b and TOI 237b: Two Small Warm Planets Orbiting Inactive M Dwarfs Found by TESS
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3. Newton, E., Mann, A., **Tofflemire**, B., et al. (49 co-authors) 2019, ApJL, 880L, 17 | [ADS](#) | 86 cit.
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2. Milliman, K., Leiner, E., Mathieu, R., **Tofflemire**, B., & Platais, I. 2016, AJ, 151, 152 | [ADS](#) | 5 cit.
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1. Orío, M., Behar, E., Gallagher, J., et al. (including **Tofflemire** and 6 co-authors) 2013, MNRAS, 429, 1342 | [ADS](#) | 25 cit.
Thomson scattering and collisional ionization in the X-ray grating spectra of the recurrent nova U Scorpii

Contributing Author | 3100+ citations

18. Zhang, Z., Morley, C., Gully-Santiago, M., et al. (including **Tofflemire** and 13 co-authors) 2022, *Science*, submitted | draft available upon request
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17. Zhou, G., Wirth, C., Huang, C., et al. (including **Tofflemire** and 36 co-authors) 2022, *AJ*, 163, 289 | [ADS](#) | 2 cit.
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16. Han, E., Rappaport, S., Vanderburg, A., **Tofflemire**, B., et al. (11 co-authors) 2022, *MNRAS*, 510, 2448 | [ADS](#) | 1 cit.
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13. Pearce, L., Kraus, A.L., Dupuy, T., et al. (including **Tofflemire** and 3 co-authors) 2020, *ApJ*, 894, 115 | [ADS](#) | 21 cit.
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A Multi-survey Approach to White Dwarf Discovery

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Probing the Flare Atmospheres of M Dwarfs Using Infrared Emission Lines
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SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems
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Characterization of a Solar Mass Eclipsing Binary with TESS and IGRINS
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M Dwarf Flares: Exoplanet Detection Implications

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Chandra X-ray grating observation of Nova LMC 2012
1. **Tofflemire**, B., Orío, M., Kuulkers, E., et al. 2011, The Astronomer's Telegram, 3762
A Chandra grating observation of T Pyxidis

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REFERENCES

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