— Brendan Peter Bowler —

Curriculum Vitae

Contact Information

Broida Hall
Department of Physics
University of California, Santa Barbara
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Education

Ph.D in Astronomy, Institute for Astronomy, University of Hawai'i at Mānoa, 2013
Thesis Title: *Direct Imaging Search for Planets Around Low-Mass Stars and Spectroscopic Characterization of Young Exoplanets*
Thesis Advisor: Michael Liu
M.S. in Astronomy, University of Hawai'i at Mānoa, 2009
B.A. in Physics, Astrophysics, Tufts University, 2007

Professional Appointments

Associate Professor, University of California, Santa Barbara	**2025–present**
Associate Professor, The University of Texas at Austin	2024
Assistant Professor, The University of Texas at Austin	2018–2024
Hubble Postdoctoral Fellow, The University of Texas at Austin	2016–2018
McDonald Prize Fellow, The University of Texas at Austin	2015–2016
JCPA Prize Postdoctoral Fellow, California Institute of Technology	2013–2015
Graduate Research Assistant, University of Hawaii at Manoa	2008–2013
Graduate Teaching Assistant, University of Hawaii at Manoa	2007–2008

Research Interests

Formation, demographics, and orbital architectures of extrasolar planets; high-contrast adaptive optics imaging and spectroscopy; observations of exoplanet atmospheres; young accreting planets and circumplanetary disks; brown dwarf atmospheres and evolution; habitability and the search for life; precision radial velocity planet searches.

Awards and Honors

2022 Sloan Research Fellow in Physics, Alfred P. Sloan Foundation
2020 BoV Teaching Excellence Award, UT Austin
2016 Hubble Postdoctoral Fellowship, NASA and STScI
2015 McDonald Prize Postdoctoral Fellow, The University of Texas at Austin
2014 Robert J. Trumpler Award, Astronomical Society of the Pacific
For a PhD thesis in North America considered unusually important to Astronomy. (Annual)
2013 Joint Center for Planetary Astronomy Prize Postdoctoral Fellowship, Caltech
2013 URC Excellence in Research Award (Doctoral Level), University of Hawai'i
Research excellence, awarded once per year at UH Manoa.
2010 ARCS Columbia Communications Award in Astronomy, University of Hawai'i
Research excellence, awarded once per year for selected UH departments.
2009 Friends of the IfA M.S. Research Award, University of Hawai'i
Outstanding Master's-level research, awarded once per year per class.
2007 Class of 1911 Prize Scholarship, Tufts University
2006 Tufts Summer Scholars Program, Tufts University
2006 N. Hobbs Knight Prize Scholarship in Physics, Tufts University

Grants Awarded

As PI: $2.67M
As Admin PI: $1.38M

Total: $4.05M

2022 Sloan Research Fellowship, Alfred P. Sloan Foundation (PI; $75k)

NASA Exoplanet Research Program

- 2020: *Transforming Yields of Direct Imaging Planet Searches with Young Accelerating Stars* (PI; $569k)

NSF Astronomy and Astrophysics Research Grant

- 2019: *The Formation of Giant Planets on Wide Orbits* (PI; $310k)

James Webb Space Telescope, NASA/STScI

- Cycle 3: *Angular Momentum Architectecture of the HR 8799 Planetary System*, 23 hours (PI; $219k)
- Cycle 2: *Testing the Giant Planet Hypothesis for Spiral-driven Arms in Protoplanetary Disks*, 20 hours (PI; $233k)
- Cycle 1: *JWST MIRI Imaging Survey of Planetary-mass Companions: Testing the Compact Disk Hypothesis*, 16 hours (co-PI; $168k)

Hubble Space Telescope, NASA/STScI

- Cycle 30: *Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes*, 20 orbits (PI; $158k)
- Cycle 29: *The Angular Momentum Architecture of Long-Period Giant Planets and Brown Dwarf Companions*, 18 orbits (PI; $122k)
- Cycle 28: *Accretion Rates as a Diagnostic Tool for the Origin of Planetary-mass Companions*, 26 orbits (co-PI; $157k)
- Cycle 25: *Rotation Periods and Cloud Dynamics of Imaged Exoplanets*, 18 orbits (PI; $118k)
- Cycle 23: *Imaging Accreting Protoplanets in the Young Cluster IC 348*, 12 orbits (PI; $66k)

NASA Keck Observing Support

- 2023: *New Substellar Dynamical Masses from Accelerating Stars* (PI; $14.9k)
- 2022: *New Substellar Dynamical Masses from Accelerating Stars* (PI; $17k)
- 2021: *New Substellar Dynamical Masses from Accelerating Stars* (PI; $24.8k)
- 2020: *Transforming Yields of Direct Imaging Planet Searches* (PI; $14.1k)
- 2019: *The Nature of Long-Period Companions to Acc. Sun-Like Stars* (PI; $12k)
- 2018: *Uncovering the Formation of Giant Planets on Wide Orbits* (PI; $8k)
- 2018: *Imaging the Outer Companions of Mature Planetary Systems* (PI; $8k)
- 2018: *Atmospheric Properties of 2M2236+4751 b* (PI; $8k)
- 2017: *Uncovering the Formation of Giant Planets on Wide Orbits* (PI; $7.5k)
- 2017: *Imaging the Outer Companions of Mature Planetary Systems* (PI; $7.5k)

NASA Hubble Fellowship (Sci PI; $330k)

- 2016: *The Origin and Evolution of Planets on Wide Orbits with High-Contrast Imaging*

NASA-NSF Exoplanet Observational Research

- 2020: *Transforming Yields of Direct Imaging Planet Searches* (PI; $5k)
- 2021: *Substellar Companions and Dynamical Masses from Acc. Stars* (PI; $5k)
- 2015: *New Targets for Direct Imaging Planet Searches* (Sci PI; $14k)

Scientific Talks

Invited talk: U Cambridge IoA, Cambridge, UK (5-2-2024)
Invited colloquium: UC Santa Cruz, CA (4-15-2024)
Contributed talk: Extreme Solar Systems 5, Christchurch, NZ (3-18-2024)
Invited seminar: U Cambridge IoA, Cambridge, UK (3-7-2024)
Invited colloquium: UC Santa Barbara, CA (11-7-2023)
Invited colloquium: UC Berkeley, Berkeley, CA (2-13-2023)
Invited seminar: UC Berkeley CIPS, Berkeley, CA (10-5-2022)
Contributed talk: Exoplanets IV, Las Vegas, NV (5-5-2022)
Invited talk: 2021 HET Board Meeting, virtual meeting(12-8-2021)
Contributed review talk: Exoplanet Demographics, virtual meeting (11-9-2020)
Contributed talk: Winter OWL Workshop, UH/IfA, Honolulu, HI (1-9-2020)
Contributed talk: AAS 235, Honolulu, HI (1-6-2020)
Invited colloquium: UCLA, Los Angeles, CA (11-20-2019)
Invited colloquium: Texas A&M, College Station, TX (11-4-2019)
Invited talk: Simons Alumni Symposium, New York City, NY (10-3-2019)
Invited speaker: Extreme Solar Systems IV, Reykjavik, Iceland (8-19-2019)
Invited speaker: 51 Pegasi b Science Summit, San Francisco, CA (7-11-2019)
Contributed talk: Other Worlds Laboratory, Santa Cruz, CA, (7-3-2019)
Invited discussion leader: 2019 Gordon Conference, South Hadley, MA, (6-27-2019)
Invited colloquium: University of Toronto, Toronto, CA (4-10-2019)
Invited colloquium: Princeton University, Princeton, NJ (3-12-2019)
Invited talk: High-Contrast Imaging session, AAS 233, Seattle, WA (1-09-2019)
Invited talk: Exoplanet Orbiting Hot Stars, Nashville, TN (7-20-2018)
Contributed talk: Pop-Up Institute on Habitability, UT Austin, Austin, TX (7-11-2018)
Invited seminar: Harvard CfA, Boston, MA (4-23-2018)
Invited seminar: UT San Antonio, San Antonio, TX (4-13-2018)
Invited colloquium: Notre Dame, South Bend, IN (4-10-2018)
Invited colloquium: University of Hawaii at Manoa/IfA, Honolulu, HI (1-31-2018)
Invited talk: Exoplanets and Planet Formation meeting, Shanghai, China (12-12-2017)
Invited seminar: Rice University, Houston, TX (11-29-2017)
Invited talk: 2017 Hubble Symposium, Baltimore, MD (3-13-2017)
Invited colloquium: UC Irvine, Irvine, CA (2-28-2017)
Invited colloquium: University of Texas at Austin, Austin, TX (2-16-2017)
Invited colloquium: Cornell University, Ithaca, NY (2-14-2017)
Invited seminar: Cornell University, Ithaca, NY (2-13-2017)
Invited colloquium: McGill University, Montreal, Canada (2-8-2017)
Invited colloquium: University of Minnesota, Minneapolis, MN (2-3-2017)
Invited seminar: University of Victoria, Victoria, Canada (1-27-2017)
Invited colloquium: University of Victoria, Victoria, Canada (1-26-2017)
Contributed talk: 229th AAS meeting, Grapevine, TX (1-4-2017)
Invited seminar: UT Austin Cosmos series, Austin, TX (4-13-2016)
Invited colloquium: The Ohio State University, Columbus, OH (3-31-2016)
Contributed talk: Extreme Solar Systems III, Kona, HI (12-3-2015)

Invited seminar: University of Exeter, Exeter, UK (7-21-2015)
Contributed talk: IAU Symposium 314, Atlanta, GA (5-14-2015)
Invited colloquium: Université de Montreal, Montréal, Canada (4-16-2015)
Invited colloquium: Lowell Observatory, Flagstaff, AZ (1-15-2015)
Contributed talk: 225th AAS meeting, Seattle, WA (1-6-2015)
Invited review talk: Wide-field IR Surveys meeting, Pasadena, CA (11-17-2014)
Contributed talk: Keck Science Meeting, Pasadena, CA (10-3-2014)
Invited seminar: UC San Diego CASS series, La Jolla, CA (4-30-2014)
Invited seminar: UC Irvine, Irvine, CA (4-22-2014)
Invited colloquium: UC Berkeley, Berkeley, CA (4-10-2014)
Invited seminar: UC Berkeley CIPS planetary series, Berkeley, CA (4-9-2014)
Invited seminar: UT Austin planetary series, Austin, TX (3-6-2014)
Invited seminar: Steward Observatory lunch seminar, Tucson, AZ (2-21-2014)
Invited seminar: UCLA iPLEX series, Los Angeles, CA (11-22-2013)
Invited seminar: Caltech Tea Talk, Pasadena, CA (11-04-2013)
Contributed talk: IAU Symposium 299, Victoria, BC, Canada (6-03-2013)
Invited seminar: UC Santa Cruz exoplanet series, Santa Cruz, CA (9-25-2012)
Contributed talk: Keck Science Meeting, La Jolla, CA (9-21-2012)
Contributed talk: The Origin of Stars and Pl. Sys., Hamilton, Canada (6-11-2012)
Contributed talk: Swinburne Keck Science Workshop, Melbourne, Australia (3-27-2012)
Contributed talk: Keck Science Meeting, CIT, Pasadena, CA (9-23-2011)
Contributed talk: Cool Stars 16, Seattle, WA (8-30-2010)
Contributed talk: Hawai'i Open Meeting on Exoplanets, Honolulu, HI (5-27-2010)

Teaching

AST 382D, "Astronomical Data Analysis", Graduate course, UT Austin
Fall 2021 – 19 students, Instructor Rating: 4.9/5.0 [hybrid]
Fall 2023 – 21 students, Instructor Rating: 4.6/5.0

AST 381, "Planetary Astrophysics", Graduate course, UT Austin
Spring 2020 – 11 students, Instructor Rating: 5.0/5.0 [hybrid]
Fall 2024 – 7 students, Instructor Rating: 4.7/5.0

AST 307, "Introductory Astronomy", UG course for science majors, UT Austin
Spring 2024 – 47 students, Instructor Rating: 4.8/5.0
Spring 2022 – 57 students, Instructor Rating: 4.7/5.0 [hybrid]
Fall 2020 – 67 students, Instructor Rating: 4.9/5.0 [online]
Fall 2019 – 51 students, Instructor Rating: 4.7/5.0
Spring 2019 – 55 students, Instructor Rating: 4.7/5.0
Fall 2018 – 65 students, Instructor Rating: 4.6/5.0

Select PI Observing Programs

Keck I/II (NIRC2, OSIRIS, HIRES, NIRES)	>50 nights
James Webb Space Telescope (MIRI, NIRCam; Cycles 1, 2, 3)	60 hours
Hubble Space Telescope (WFC3, ACS; Cycles 23, 25, 28, 29, 30)	94 orbits
ALMA [Cycles 2, 4, 9]	32 hours
Gemini-N/S (NIFS, GRACES, NICI, GPI)	12 nights
Subaru (SCExAO, HiCIAO, IRCS)	9 nights

Other Programs as PI:

Hobby-Eberly Telescope (HPF), Palomar Hale (PHARO), SOAR (Goodman), KPNO Mayall (RC-Spec, Echelle Spectrograph), WIYN (Hydra, NESSI), Harlan J. Smith Telescope (Tull Spectrograph, IGRINS, Portable AO), 1.5-m at CTIO (CHIRON), Palomar 60″ (Robo-AO), MINERVA-Australis

Select Internal Service	*The University of Texas at Austin:* Department of Astronomy Graduate Advisor, 2023–2024 Assistant Graduate Advisor, 2019–2023 CNS Catalyst Grant Committee, 2023 Graduate Studies Executive Committee, 2019–2024 Quals Evaluation Committee, 2022–2023 Faculty Search Committee, 2022 "Navigating Grad School in Astronomy" 1st Yr. Grad. Sem. Organizer, 2019–present McDonald Observatory Assistant Director Search Committee, 2023–present Department Colloquium Organizer, 2021–2022 Chair of Heising Simons Foundation's 51 Pegasi b Postdoctoral Fellowship Department Selection Committee, 2018–2021 Graduate Admissions Committee (Member and Recruiter), 2018–2019 McDonald Obs./Hobby-Eberly Telescope Telescope Allocation Committee, 2017–2019 Seminar Organizer (Stars and Planets), 2018–2019 Co-Org., Pop-Up Institute on Understanding Planetary Habitability, UT Austin, 2018 Master's-Level Research Committees (14 graduate students), 2018–2024 Dissertation-Level Research Committees (8 students), 2018–present
Select External Service	Referee for Science, Nature, ApJ, AJ, ApJL, A&A, PASP, PASJ, Nature Comm. SOC, "The Scientific Landscape for ELTs After the Launch of JWST" (2023) The Royal Society University Research Fellowship Reviewer (2022) External Dissertation Committee Member: M. Salama, U Hawaii; N. Choksi, UC Berkeley; A. Grandjean, U Grenoble Alpes; F. Philipot, Obs de Paris; A. Lueber, Ludwig Maximilian U. (2021–present) GMT Science Advisory Committee member, UT Austin representative (2020–present) MINERVA-Australis Observatory Executive Committee, 2019–present NSF AAG external reviewer (2020) ALMA Science Assessor (Cycle 7, 8; 2019, 2021) External Reviewer for Swiss NSF Grant (2021) Led Astro2020 decadal white paper on Imaging Planets with the ELTs (2019) US ELT Key Science Program subgroup co-leader (2019) Heising-Simons 51 Pegasi b Postdoctoral Review Panel (2018–2019) GMT Science Book 2018 contributing author (2018) Organizer, Pop-Up Institute on Planetary Habitability, UT Austin, Austin (2018) SPIE "Adaptive Optics IV" meeting Program Committee (2018) UT Bashfest meeting LOC (2017) HST Cycle 25 Panel Reviewer (2017) NASA Exoplanet Research Program (2015; external reviewer) NASA Postdoctoral Program (2014, 2015; external reviewer)
Select Outreach	2024 Total Solar Eclipse Science Talk, Hill Country, TX (4-2024) UT Austin/CNS Press Release: New Era of Exoplanet Discovery Begins with Images of 'Jupiter's Younger Sibling', 22 June 2023 (Keck Observatory version) McDonald Observatory Board of Visitors Faculty Lecture, summer meeting (7-2022) TAURUS REU mentor, UT Austin (summer 2016, 2017, 2018, 2021) NASA Hubble Space Telescope Press Release: Hubble Watches How a Giant Planet Grows, 29 April 2021 McDonald Observatory Board of Visitors lecture, UT Austin (2-2020)

UT Austin/McDonald Observatory Press Release: Distant Giant Planets form Differently than 'Failed Stars', 10 February 2020
McDonald BoV Cosmic Ventures talk, Dallas, TX (11-2018)
McDonald BoV Orion Festival talk, McDonald Observatory, TX (4-2018)
SEES Summer High School Intern Program seminar, UT Austin CSR (7-2017)
McDonald Observatory Board of Visitors lecture, UT Austin (2-2017)
Austin Astronomy on Tap talk (11-2016)
Featured in BBC Horizon's "The Wildest Weather in the Universe" documentary (2016)
EXES Teacher Associate Meeting inv. speaker, UT Austin, Austin, TX (4-2016)
Orange County Astronomers inv. speaker, Chapman University, Orange, CA (4-2015)

Postdoc and Student Mentoring

Postdocs:

• Lauren Biddle (2022—present): Postdoctoral Researcher (UT Austin); UT Provost Early Career Fellow
• Yifan Zhou (2019—2023): McDonald Postdoctoral Fellow → Heising-Simons Foundation 51 Peg b Postdoctoral Fellow (UT Austin) → Assistant Professor, University of Virginia (August 2023—present)
• Zhoujian Zhang (2021—2022): Postdoctoral Researcher (UT Austin) → NASA Sagan Postdoctoral Fellowship, UC Santa Cruz (2022—present)
• Ya-Lin Wu (2018—2020): Heising-Simons Foundation 51 Peg b Postdoctoral Fellow (UT Austin) → Assistant Professor, National Taiwan Normal University (2020—present)

Graduate Students:

• Quang Tran (2018—2024): NASA FINESST Fellow; Flatiron Institute CCA Predoctoral Fellow → 51 Pegasi b Fellow (Yale)
• Kyle Franson (2019—present): NSF Graduate Research Fellow
• Marvin Morgan (2021—present)
• Lillian Jiang (2022—present)
• Katie Teixeira (2023—present): NASA FINESST Fellow
• Claire Finley (2023—present)
• Caprice Phillips (2018—2019)

Undergraduates:

• Aniket Sanghi (2019—2023): UT '23 → Astronomy PhD program at Caltech; Goldwater Scholar; NSF GRFP
• Sarah Howes (2019—2022): UT '22 → Astronomy PhD program at Leiden University; CNS Dean's Honored Graduate
• Aldo Sepulveda (2017—2022): UT San Antonio '20 → Astronomy PhD program at U. of Hawai'i; Goldwater Scholar; NSF GRFP
• Rebeca Soto Armendariz (2021): Angelo State U. '21 → Astronomy PhD program at Arizona State University
• Pranav Premnath (2019—2020): UT '21 → Astronomy PhD program at UC Irvine
• Justin Yudichak (2018—2019): UT '21 → UT Applied Research Labs
• Analis Lawrence (2018): Florida International U. '18 → Physics PhD program at University of Florida
• Viyang Shah (2017—2019): UT '21
• Kailee Turner (2022): UT '23
• Bailey Ontiveros (2021): UT '23
• Katelyn Ashok (2019—2020): UT '22

- Christina Negrete-Montero (2020): UT '23
- Itzel Montoya (2020): UT '23
- Isaiah Tristan (2016): Rice U. '18 → Astronomy PhD program at CU Boulder

Refereed Publications

Refereed publications: 149 (24 first-authored; 125 co-authored)
Total citations (all papers): ∼6000
Total citations (first author): ∼1700
***h*-index (all papers): 45**
***h*-index (first author): 20**

First-authored publications:

24. *"Rotation Periods, Inclinations, and Obliquities of Cool Stars Hosting Directly Imaged Substellar Companions: Spin-Orbit Misalignments are Common"*
Bowler, B. P., Tran, Q. H., Zhang, Z., Morgan, M., Ashok, K. B., Blunt, S., Bryan, M. L., Evans, A. E., Franson, K., Huber, D., Nagpal, V., Wu, Y.-L., Zhou, Y., 2023, AJ, 165, 164

23. *"The McDonald Accelerating Stars Survey (MASS): Discovery of a Long-period Substellar Companion Orbiting the Old Solar Analog HD 47127"*
Bowler, B. P., Endl, M., Cochran, W. D., MacQueen, P. J., Crepp, J., Doppmann, G. W., Dulz, S., Brandt, T. D., Brandt, M. G., Li, Y., Dupuy, T. J., Franson, K., Kratter, K. M., Morley, C. V., Zhou, Y., 2021, ApJL, 913, 26

22. *"The McDonald Accelerating Stars Survey (MASS): White Dwarf Companions Accelerating the Sun-like Stars 12 Psc and HD 159062"*
Bowler, B. P., Cochran, W. D., Endl, M., Franson, K., Brandt, T. D., Dupuy, T. J., MacQueen, P. J., Kratter, K. M., Mawet, D., Ruane, G., 2021, AJ, 161, 106

21. *"Strong Near-infrared Spectral Variability of the Young Cloudy L Dwarf Companion VHS J1256-1257 b"*
Bowler, B. P., Zhou, Y., Morley, C. V., Kataria, T., Bryan, M. L., Benneke, B., Batygin, K., 2020, ApJL, 893, 30

20. *"Population-Level Eccentricity Distributions of Imaged Exoplanets and Brown Dwarf Companions: Dynamical Evidence for Distinct Formation Channels"*
Bowler, B. P., Blunt, S. C., Nielsen, E. L., 2020, AJ, 159, 63

19. *"The Elusive Majority of Young Moving Groups: Young Binaries and Lithium-rich Stars in the Solar Neighborhood"*
Bowler, B. P., Hinkley, S., Ziegler, C., Baranec, C., Gizis, J., Law, N. M., Liu, M. C., Shah, Viyang S., Shkolnik, E. L., Riaz, B., Riddle, R., 2019, ApJ, 877, 60

18. *"Orbit and Dynamical Mass of the Late-T Dwarf GL 758 B"*
Bowler, B. P., Dupuy, T. J., Endl, M., Cochran, W. D., MacQueen, P. J., Fulton, B. J., Petigura, E. A., Howard, A. W., Hirsch, L., Kratter, K. M., Crepp, J. R., Biller, B. A., Johnson, M. C., Wittenmyer, R. A. 2018, AJ, 155, 159

17. *"The Young Substellar Companion ROXs 12 B: Near-infrared Spectrum, System Architecture, and Spin-Orbit Misalignment"*
Bowler, B. P., Kraus, A. L., Bryan, M. L., Knutson, H. A., Brogi, M., Rizzuto, A., Mace, G. N., Vanderburg, A., Liu, M. C., Hillenbrand, L. A., Cieza, L. A. 2017, AJ, 154, 165

16. *"Planets Around Low-Mass Stars (PALMS). VI. Discovery of a Remarkably Red Planetary-Mass Companion to the AB Dor Moving Group Candidate 2MASS J22362452+4751425"*

Bowler, B. P., Liu, M. C., Mawet, D., Ngo, H., Malo, L., Mace, G. N., McLane, J. N., Lu, J. R., Tristan, I. I., Hinkley, S., Hillenbrand, L. A., Shkolnik, E. L., Benneke, B., Best, W. M. J. 2017, AJ, 153, 18

15. *"Imaging Extrasolar Giant Planets"*
Bowler, B. P. 2016, PASP, 128, 102001 (Invited Review)

14. *"Near-Infrared Spectroscopy of 2M0441+2301 AabBab: A Quadruple System Spanning the Stellar to Planetary Mass Regimes"*
Bowler, B. P., Hillenbrand, L. A. 2015, ApJL, 811, 30

13. *"An ALMA Constraint on the GSC 6214-210 B Circum-substellar Accretion Disk Mass"*
Bowler, B. P., Andrews, S. M., Kraus, A. L., Ireland, M. J., Herczeg, G., Ricci, L., Carpenter, J., Brown, M. E. 2015, ApJL, 805, 17

12. *"Planets Around Low-Mass Stars (PALMS). V. Age-Dating Low-Mass Companions to Members and Interlopers of Young Moving Groups"*
Bowler, B. P., Shkolnik, E. L., Liu, M. C., et al. [24 coauthors], 2015, ApJ, 806, 62

11. *"Planets Around Low-Mass Stars (PALMS). IV. The Outer Architecture of M Dwarf Planetary Systems"*
Bowler, B. P., Liu, M. C., Shkolnik, E. L., & Tamura, M., 2015, ApJS, 216, 7

10. *"Spectroscopic Confirmation of Young Planetary-Mass Companions on Wide Orbits"*
Bowler, B. P., Liu, M. C., Kraus, A. L., & Mann, A. W., 2014, ApJ, 784, 65

9. *"Planets Around Low-Mass Stars (PALMS). III. A Young Dusty L Dwarf Companion at the Deuterium-burning Limit"*
Bowler, B. P., Liu, M. C., Shkolnik, E. L., & Dupuy, T. J., 2013, ApJ, 774, 55

8. *"Planets Around Low-Mass Stars (PALMS). II. A Low-Mass Companion to the Young M Dwarf GJ 3629 Separated By 0.2" "*
Bowler, B. P., Liu, M. C., Shkolnik, E. L., & Tamura, M., 2012, ApJ, 756, 69

7. *"Planets Around Low-Mass Stars (PALMS). I. A Substellar Companion to the Young M Dwarf 1RXS J235133.3+312720"*
Bowler, B. P., Liu, M. C., Shkolnik, E. L., Dupuy, T. J., Cieza, L. A., Kraus, A. L., & Tamura, M., 2012, ApJ, 753, 142

6. *"A Disk Around the Planetary-Mass Companion GSC 06214-00210 b: Clues About the Formation of Gas Giants on Wide Orbits"*
Bowler, B. P., Liu, M. C., Kraus, A. L., Mann, A. W., Ireland, M. J., 2011, ApJ, 743, 148

5. *"Near-Infrared Spectroscopy of the Extrasolar Planet HR 8799 b"*
Bowler, B. P., Liu, M. C., Dupuy, T. J., & Cushing, M. C. 2010, ApJ, 721, 1725

4. *"SDSS J141624.08+134826.7: A Nearby Blue L Dwarf From the Sloan Digital Sky Survey"*
Bowler, B. P., Liu, M. C., & Dupuy, T. J. 2010, ApJ, 710, 45

3. *"Retired A Stars and Their Companions. III. Comparing the Mass-Period Distributions of Planets Around A-Type Stars and Sun-Like Stars"*
Bowler, B. P., Johnson, J. A., Marcy, G. W., Henry, G. W., Peek, K. M. G., Fischer, D. A., Clubb, K. I., Liu, M. C., Reffert, S., Schwab, C., & Lowe, T. B. 2010, ApJ, 709, 396

2. *"The Benchmark Ultracool Subdwarf HD 114762B: A Test of Low-Metallicity Atmospheric and Evolutionary Models"*
Bowler, B. P., Liu, M. C., & Cushing, M. C. 2009, ApJ, 706, 1114

1. *"An Infrared Census of Star Formation in the Horsehead Nebula"*
Bowler, B. P., Waller, W. H., Megeath, S. T., Patten, B. P., & Tamura, M. 2009, AJ 137, 3685

Co-authored publications:
(* denotes student-led papers under my supervision)

125. *"Atmospheric Retrievals of the Young Giant Planet ROXs 42B b from Low- and High-resolution Spectroscopy'*
Inglis, J., Wallack, N. L., Xuan, J. W., Knutson, H. A., Chachan, Y., Bryan, M. L.,**Bowler, B. P.**, Iyer, A., Kataria, T., Benneke, B. 2024, AJ, 167, 218

* 124. *"The Epoch of Giant Planet Migration Planet Search Program. II. A Young Hot Jupiter Candidate around the AB Dor Member HS Psc'*
Tran, Q. H.,**Bowler, B. P.**, Cochran, W. D., Halverson, S., Mahadevan, S., Ninan, J. P., Robertson, P., Stefansson, G., Terrien, R. 2024, AJ, 167, 193

123. *"The discovery of two new benchmark brown dwarfs with precise dynamical masses at the stellar-substellar boundary"*
Rickman, E. L., Ceva, W., Matthews, E. C., Segransan, D., **Bowler, B. P.**, Forveille, T., Franson, K., Hagelberg, J., Udry, S., Vigan, A. 2024, A&A, 684, 88

122. *"Deep Paβ Imaging of the Candidate Accreting Protoplanet AB Aur b"*
Biddle, L. I., **Bowler, B. P.**, Zhou, Y., Franson, K., Zhang, Z.. 2024, AJ, 167, 172

121. *"Two mini-Neptunes transiting the adolescent K-star HIP 113103 confirmed with TESS and CHEOPS"*
Lowson, N., Zhou, G., Huang, C. X., et al. [34 total] 2024, MNRAS, 527, 1146

120. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems V: Do Self-Consistent Atmospheric Models Represent JWST Spectra? A Showcase With VHS 1256 b"*
Petrus, S., Whitford, N., Patapis, P., et al. [121 total] 2024, ApJ, 966, 11

* 119. *"Direct Exoplanet Detection Using Deep Convolutional Image Reconstruction (ConStruct): A New Algorithm for Post-Processing High-Contrast Images'*
Wolf, T. N., Jones, B. A., **Bowler, B. P.** 2024, AJ, 167, 92

* 118. *"Signs of Similar Stellar Obliquity Distributions for Hot and Warm Jupiters Orbiting Cool Stars"*

Morgan, M., **Bowler, B. P.**, Tran, Q. H., Petigura, E., Nagpal, V., Blunt, S. 2024, AJ, 167, 48

117. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems IV: NIRISS Aperture Masking Interferometry Performance and Lessons Learned"*
Sallum, S., Ray, S., Kammener, J., et al. [122 total] 2024, ApJ, 963, 2

116. *"A Large and Variable Leading Tail of Helium in a Hot Saturn Undergoing Runaway Inflation"*
Gully-Santiago, M., Morley, C. V., Luna J., et al. [17 total] 2024, AJ, 167, 142

115. *"TOI-1994b: A Low Mass Eccentric Brown Dwarf Transiting A Subgiant Star"*
Page, E., Pepper, J., Wright, D., et al. [25 total] 2024, AJ, 167, 109

114. *"UV-optical Emission of AB Aur b Is Consistent with Scattered Stellar Light"*
Zhou, Yifan, **Bowler, B. P.**, Yang, H., et al. [15 total] 2023, AJ, 166, 220

113. *"ELemental abundances of Planets and brown dwarfs Imaged around Stars (ELPIS). I. Potential Metal Enrichment of the Exoplanet AF Lep b and a Novel Retrieval Approach for Cloudy Self-luminous Atmospheres"*
Zhang, Z., Molliere, P., Hawkins, K., Manea, C., Fortney, J., Morley, C. V., Skemer, A., Marley, M. S.,, **Bowler, B. P.**, Carter, A. L., Franson, K., Maas, Z. G., Sneden, C. 2023, AJ, 166, 198

112. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems III: Aperture Masking Interferometric Observations of the star HIP 65426 at 3.8μm"*
Ray, S., Sallum, S., Hinkley, S., et al. [123 total] 2023, submitted to AAS Journals (arXiv:2310.11499)

111. *"Monitoring Hα Emission from the Wide-orbit Brown-dwarf Companion FU Tau B"*
Wu, Y.-L., Cheng, Y.-C., Huang, L.-C., **Bowler, B. P.**, Close, L. M., Tseng, W.-L., Chen, N., Chen, D.-W. 2023, AJ, 166, 143

110. *"Surveying nearby brown dwarfs with HGCA: direct imaging discovery of a faint, high-mass brown dwarf orbiting HD 176535 A"*
Li, Y., Brandt, T. D., Brandt, G. M., et al. [20 total] 2023, MNRAS, 522, 6522

109. *"Giant tidal tails of helium escaping the hot Jupiter HAT-P-32 b"*
Zhang, Z., Morley, C. V., Gully-Santiago, M., et al. [17 total] 2023, Science Advances, 9, eadf8736

108. *"Emission line variability of young 10-30 Mjup companions : I. The case of GQ Lup b and GSC 06214-00210 b"*
Dorian, D., Bonnefoy, M., Dougados, C., et al. [13 total] 2023, A&A, 676, 123

107. *"Intercomparison of Brown Dwarf Model Grids and Atmospheric Retrieval Using Machine Learning"*
Lueber, A., Kitzmann, D., Fisher, C. E., **Bowler, B. P.**, Burgasser, A. J., Marley, M., Heng, K. 2023, ApJ, 954, 22

* 106. *"Dynamical Mass of the Young Brown Dwarf Companion PZ Tel B"*
Franson, K. & **Bowler, B. P.**, 2023, AJ, 165, 246

105. *"A Neptune-mass exoplanet in close orbit around a very low-mass star challenges formation models'*
Stefansson, G., Mahadevan, S., Miguel, Y., et al. [30 total] 2023, Science, 382, 1031

* 104. *"Astrometric Accelerations as Dynamical Beacons: A Giant Planet Imaged Inside the Debris Disk of the Young Star AF Lep"*
Franson, K., **Bowler, B. P.**, Zhou, Y., et al. [16 total] 2023, ApJL, 950, 19

103. *"Another shipment of six short-period giant planets from TESS"*
Rodriguez, J. E., Quinn, S. N., Vanderburg, A., et al. [133 total], 2023, MNRAS, 521, 2765

102. *"Spinning up a Daze: TESS Uncovers a Hot Jupiter orbiting the Rapid-Rotator TOI-778"*
Clark, J., Addison, B., Okumura, J., et al. [71 total], 2023, AJ, 165, 207

101. *"A sub-Neptune transiting the young field star HD 18599 at 40 pc"*
de Leon, J. P., Livingston, J. H., Jenkins, J. S., et al. [70 total], 2023, MNRAS, 522, 750

100. *"The McDonald Accelerating Stars Survey (MASS): Architecture of the Ancient Five-Planet Host System Kepler-444"*
Zhang, Z., **Bowler, B. P.**, Dupuy, T. J., et al. [14 total], 2023, AJ, 165, 73

99. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 Micron Spectrum of the Planetary-Mass Companion VHS 1256-1257 b"*
Miles, B. E., Biller, B. A., Patapis, P., et al. [102 total], 2023, ApJ, 946, 6

98. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High Contrast Imaging of the Exoplanet HIP 65426 b from 2-16 μm"*
Carter, A. L., Hinkley, S., Kammer, J., et al. [109 total], 2023, ApJL, 951, 20

* 97. *"Astrometric Accelerations as Dynamical Beacons: Discovery and Characterization of HIP 21152 B, the First T-Dwarf Companion in the Hyades"*
Franson, K., **Bowler, B. P.**, Bonavita, M., et al. [31 total] 2023, AJ, 165, 39

* 96. *"The Impact of Bayesian Hyperpriors on the Population-Level Eccentricity Distribution of Imaged Planets"*
Nagpal, V., Blunt, S., **Bowler, B. P.**, Dupuy, T. J., Nielsen, E. L., Wang, J. J. 2023, AJ, 165, 32

95. *"A dense mini-Neptune orbiting the bright young star HD 18599"*
Vines, J. I., Jenkins, J. S., Berdinas, Z., et al. [27 total]. 2023, MNRAS, 518, 2627

94. *"TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs"*
El Mufti, M., Plavchan, P. P., Isaacson, H., et al. [96 total]. 2023, AJ, 165, 10

93. *"Roaring Storms in the Planetary-Mass Companion VHS 1256-1257 b: Hubble Space Telescope Multi-epoch Monitoring Reveals Vigorous Evolution in an Ultra-cool Atmosphere"*
Zhou, Y., **Bowler, B. P.**, Apai, D., Kataria, T., Morley, C. V., Bryan, M. L., Skemer, A., Benneke, B. 2022, AJ, 164, 239

92. *"A Jupiter Analog Orbiting The Nearby M Dwarf GJ 463"*
Endl, M., Robertson, P., Cochran, W. D., MacQueen, P. J., **Bowler, B. P.**, Franson, K. E., Holcomb, R., Beard, C., Isaacson, H., Howard, A. W., Lubin, J., 2022, AJ, 164, 238

91. *"The Active Chromospheres of Lithium-Rich Red Giant Stars"*
Sneden, C., Melike, A., Zeynep, B., et al. [20 total], 2022, ApJ, 940, 12

90. *"The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I"*
Hinkley, S., Carter, A. L., Ray, S., et al. [89 total], 2022, PASP, 134, 5003

89. *"HST/WFC3 Hα Direct-imaging Detection of a Pointlike Source in the Disk Cavity of AB Aur"*
Zhou, Y., Sanghi, A., **Bowler, B. P.**, Wu, Y.-L., Close, L. M., Long, F., Ward-Duong, K., Zhu, Z., Kraus, A. L., Follette, K., Bae, J., 2022, ApJL, 934, L13

88. *"A Mini-Neptune from TESS and CHEOPS Around the 120 Myr Old AB Dor Member HIP 94235"*
Zhou, G., Wirth, C., Huang, C. X., et al. [39 total], 2022, AJ, 163, 289

87. *"HD 83443c: A Highly Eccentric Giant Planet on a 22 yr Orbit"*
Errico, A., Wittenmyer, R. A., Horner, J., et al. [23 total], 2022, AJ, 163, 273

86. *"ALMA Discovery of a Disk around the Planetary-mass Companion SR 12 c"*
Wu, Y.-L., **Bowler, B. P.**, Sheehan, P. D., Close, L. M., Eisner, J. A., Best, W. J., Ward-Duong, K., Zhu, Z., Kraus, A. L., 2022, ApJL, 930, 3

85. *"Retrieval Study of Brown Dwarfs across the L-T Sequence"*
Lueber, A., Kitzmann, D., **Bowler, B. P.**, Burgaser, A. J., Heng, K., 2022, ApJ, 930, 136

* 84. *"TOI-1670 b and c: An Inner Sub-Neptune with an Outer Warm Jupiter Unlikely to Have Originated from High-eccentricity Migration"*
Tran, Q. H., **Bowler, B. P.**, Endl, M., et al. [41 total], 2022, AJ, 163, 225

* 83. *"Efficiently Imaging Accreting Protoplanets from Space: Reference Star Differential Imaging of the PDS 70 Planetary System Using the HST/WFC3 Archival PSF Library"*
Sanghi, A., Zhou, Y., **Bowler, B. P.**, 2022, AJ, 163, 119

82. *"TOI-1842b: A Transiting Warm Saturn Undergoing Reinflation around an Evolving Subgiant"*
Wittenmyer, R. A., Clark, J. T., Trifonov, T., **Bowler, B. P.**, 2022, AJ, 163, 83

* 81. *"Dynamical Mass of the Exoplanet Host Star HR 8799"*

Sepulveda, A. G., & **Bowler, B. P.**, 2022, AJ, 163, 52

* 80. *"Dynamical Mass of the Young Substellar Companion HD 984 B"*
Franson, K., **Bowler, B. P.**, Brandt, T. D., Dupuy, T. J., Tran, Q. H., Brandt, M. G., Li. Y., Kraus, A. L., 2022, AJ, 163, 50

79. *"Improved Dynamical Masses for Six Brown Dwarf Companions Using Hipparcos and Gaia EDR3"*
Brandt, M. G., Dupuy, T. J., Li, Y., Chen, M., Brandt, T. D., Wong, T. L. S., Currie, T., **Bowler, B. P.**, Liu, M. C., Best, W. M. J., Phillips, M. W., 2021, AJ, 162, 301

78. *"Obliquity Constraints on the Planetary-mass Companion HD 106906 b"*
Bryan, M. L., Chiang, E., Morley, C. V., Mace, G. N., **Bowler, B. P.**, 2021, AJ, 162, 217

77. *"Constraining the Orbit and Mass of epsilon Eridani b with Radial Velocities, Hipparcos IAD-Gaia DR2 Astrometry, and Multiepoch Vortex Coronagraphy Upper Limits"*
Llop-Sayson, J., Wang, J. J., Ruffio, J-B., et al. [33 total], 2021, AJ, 162, 181

76. *"TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet"*
Osborn, A., Armstrong, D. J., Cale, B., et al. [128 total], 2021, MNRAS, 507, 2782

75. *"HD 183579b: a warm sub-Neptune transiting a solar twin detected by TESS"*
Gan, T., Bedell, M., Wang, S. X., et al. [51 total], 2021, MNRAS, 507, 2220

74. *"TOI-3362b: A Proto Hot Jupiter Undergoing High-eccentricity Tidal Migration"*
Dong, J., Huang, C. X., Zhoou, G., et al. [42 total], 2021, ApJ, 920, 16

73. *"The Youngest Planet to Have a Spin-Orbit Alignment Measurement AU Mic b"*
Addison, B. C., Horner, J., Wittenmyer, R. A., et al. [24 total], 2021, AJ, 162, 137

72. *"Large Adaptive Optics Survey for Substellar Objects around Young, Nearby, Low-mass Stars with Robo-AO"*
Salama, M., Ou, J., Baranec, C., Liu, M. C., **Bowler, B. P.**, Barnes, P., Bonnet, M., Chun, M., Duev, D.A., Goebel, S., Hall, D., Jacobson, S., Jensen-Clem, R., Law, N. M., Lockhart, C., Riddle, R., Situ, H., Warmbier, E., Zhang, Z. 2021, AJ, 162, 102

71. *"Discovery of an Edge-on Circumstellar Debris Disk around BD+45° 598: A Newly Identified Member of the β Pictoris Moving Group"*
Hinkley, S., Matthews, E. C., Lefevre, C., et al. [28 total], 2021, ApJ, 912, 115

70. *"Hubble Space Telescope UV and Hα Measurements of the Accretion Excess Emission from the Young Giant Planet PDS 70 b"*
Zhou, Y., **Bowler, B. P.**, Wagner, K. R., Schneider, G., Apai, D., Kraus, A. L., Close, L. M., Herczeg, G. J., Fang., M., 2021, AJ, 161, 244

69. *"A Transiting Warm Giant Planet around the Young Active Star TOI-201"*
Hobston, M. J., Brahm, R., Jordan, A., et al. [49 total], 2021, AJ, 161, 235

68. *"TOI-257b (HD 19916b): A Warm sub-Saturn Orbiting an Evolved F-type Star"*

Addison, B. C., Wright, D. J., Nicholson, B. A., et al. [94 total], 2021, MNRAS, 502, 3704

67. *"TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images"*
Rodriguez, J. E., Quinn, S. N., Zhou, G., et al. [118 total], 2021, AJ, 161, 194

* 66. *"The Epoch of Giant Planet Migration Planet Search Program. I. Near-Infrared Radial Velocity Jitter of Young Sun-like Stars"*
Tran, Q. H.,**Bowler, B. P.**, Cochran, W. D., Endl, M., Stefansson, G., Mahadevan, S., Ninan, J. P., Bender, C. F., Halverson, S., Roy, A., Terrien, R. 2021, AJ, 161, 173

65. *"Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy"*
Sneden, C., Afsar, M., Bozkurt, Z., et al. [18 total], 2021, AJ, 161, 128

64. *"As the Worlds Turn: Constraining Spin Evolution in the Planetary-Mass Regime"*
Bryan, M. L., Ginzburg, S., Chiang, E., Morley, C. V., **Bowler, B. P.**, Xuan, J. W., Knutson, H. A., 2020, ApJ, 905, 37

63. *"A Search for Polarized Thermal Emission from Directly Imaged Exoplanets and Brown Dwarf Companions to Nearby Stars"*
Jensen-Clem, R., Millar-Blanchaer, M. A., van Holstein, R. G., Mawet, D., Graham, J., Sengupta, S., Marley, M. S., Snik, F., Vigan, A., Hinkley, S., de Boer, J., Girard, J. H., De Rosa, R. J., **Bowler, B. P.**, Wiktorowicz, S. J., Perrin, M. D., Crepp, J. R., Macintosh, B., 2020, AJ, 160, 286

62. *"Early High-contrast Imaging Results with Keck/NIRC2-PWFS: The SR 21 Disk"*
Uyama, T., Ren, B., Mawet, D., et al. [26 total], 2020, AJ, 160, 286

61. *"TOI-481 b & TOI-892 b: Two long period hot Jupiters from the Transiting Exoplanet Survey Satellite"*
Brahm, R., Nielsen, L. D., Wittenmyer, R., et al. [78 total], 2020, AJ, 160, 235

60. *"A Dynamical Mass of 70 ± 5 MJup for Gliese 229B, the First T Dwarf"*
Brandt, T. D., Dupuy, T. J., **Bowler, B. P.**, Bardalez Gagliuffi, D. C., Faherty, J., Brandt, M. G., Michalik, D., 2020, AJ, 160, 196

59. *"KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS"*
Martinez, R. R., Gaudi, B. S., Rodriguez, J. E., et al. [92 total], 2020, AJ, 160, 111

58. *"Spectral Variability of VHS J1256-1257b from 1 to 5 μm"*
Zhou, Y., **Bowler, B. P.**, Morley, C. V., Apai, D., Kataria, T., Bryan, M. L., Benneke, B., 2020, AJ, 160, 77

57. *"A planet within the debris disk around the pre-main-sequence star AU Microscopii"*
Plavchan, P., Barclay, T., Gagne, J., et al. [87 total], Nature, 582, 497

* 56. *"2MASS J04435686+3723033 B: A Young Companion at the Substellar Boundary with Potential Membership in the β Pictoris Moving Group"*
Phillips, C. L., **Bowler, B. P.**, Mace, G., Liu, M. C., Sokal, K., 2020, ApJ, 896, 173

55. *"ACRONYM IV: Three New, Young, Low-mass Spectroscopic Binaries"*
Flagg, .L., Shkolnik, E. L., Weinberger, A., **Bowler, B. P.**, Skiff, B., Kraus, A. L., Liu, M. C., 2020, ApJ, 896, 153

54. *"ALMA 0.88 mm Survey of Disks around Planetary-mass Companions"*
Wu, Y.-L., **Bowler, B. P.**, Sheehan, P. D., Andrews, S. M., Herczeg, G. J., Kraus, A. L., Ricci, L. Wilner, D. J., Zhu, Z., 2020, AJ, 159, 229

53. *"Obliquity Constraints on an Extrasolar Planetary-mass Companion"*
Bryan, M. L., Chiang, E., **Bowler, B. P.**, Morley, C. V., Millholland, S., Blunt, S., Ashok, K. B., Nielsen, E., Ngo, H., Mawet, D., Knutson, H. A., 2020, AJ, 159, 181

52. *"TOI-677b: A Warm Jupiter (P = 11.2 days) on an Eccentric Orbit Transiting a Late F-type Star"*
Jordan, A., Brahm, R., Espinoza, N., et al. [49 total] 2020, AJ, 159, 145

51. *"A Rotation Rate for the Planetary-mass Companion DH Tau b"*
Xuan, J. W., Bryan, M. L., Knutson, H. A., **Bowler, B. P.**, Morley, C. V., Benneke, B., 2020, AJ, 159, 97

50. *"Helios-r2: A New Bayesian, Open-source Retrieval Model for Brown Dwarfs and Exoplanet Atmospheres"*
Kitzmann, D., Heng, K., Oreshenko, M., Grimm, S. L., Apai, D., **Bowler, B. P.**, Burgasser, A. J., Marley, M. S. 2020, ApJ, 890, 174

49. *"Know thy star, know thy planet: Chemo-kinematically characterizing TESS targets"*
Carrillo, A., Hawkins, K., **Bowler, B. P.**, Cochran, W., Vanderburg, A. 2019, MNRAS, 491, 4365

48. *"Supervised Machine Learning for Intercomparison of Model Grids of Brown Dwarfs: Application to GJ 570D and the Epsilon Indi B Binary System"*
Oreshenko, M., Kitzmann, D., Marquez-Neila, P., Malik, M., **Bowler, B. P.**, Burgasser, A. J., Sznitman, R., Fisher, C. E., Heng, K., 2019, AJ, 159, 6

47. *"Minerva-Australis. I. Design, Commissioning, and First Photometric Results"*
Addison, Brett, Wright, D. J., Wittenmyer, R. A., et al. [39 total], 2019, PASP, 131, 115003

46. *"Precise Dynamical Masses of Directly Imaged Companions from Relative Astrometry, Radial Velocities, and Hipparcos-Gaia DR2 Accelerations"*
Brandt, T. D., Dupuy, T. J., **Bowler, B. P.** 2019, AJ, 158, 140

45. *"The Giant Herbig-Haro Flow HH 212 and Associated Star Formation"*
Reipurth, B., Davis, C. J., Bally, John, Raga, A. C., **Bowler, B. P.**, Geballe, T. R., Aspin, Colin, Chiang, Hsin-Fang 2019, AJ, 158, 107

44. *"TESS Spots a Compact System of Super-Earths around the Naked-Eye Star HR 858"*
Vanderburg, A., Huang, C. X., Rodriguez, J. E., et al. [43 total], 2019, ApJL, 881, 19

43. *"A Jovian planet in an eccentric 11.5 day orbit around HD 1397 discovered by TESS"*
Nielsen, L. D., Bouchy, F., Turner, O., et al. [52 total] 2019, A&A, 623, 100

42. *"Orbital Motion of the Wide Planetary-mass Companion GSC 6214-210 b: No Evidence for Dynamical Scattering"*
Pearce, L. A., Kraus, A. L., Dupuy, T. J., Ireland, M. J., Rizzuto, A. C., **Bowler, B. P.**, Birchall, E. K., Wallace, A. L. 2019, AJ, 157, 71

41. *"A Model-independent Mass and Moderate Eccentricity for β Pic b"*
Dupuy, T. J., Brandt, T. D., Kratter, K. M., **Bowler, B. P.** 2019, ApJ, 871, 4

40. *"Deep Exploration of ϵ Eridani with Keck M_S-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet"*
Mawet, D., Hirsch, L., Lee, E. J., Ruffio, J.-B., Bottom, M., Fulton, B. J., Absil, O., Beichman, C., **Bowler, B. P.**, et al. [31 total], 2018, AJ, 157, 33

39. *"The TRENDS High-Contrast Imaging Survey. VII. Discovery of a Nearby Sirius-like White Dwarf System (HD 169889)"*
Crepp, J. R., Gonzales, E. J., **Bowler, B. P.**, Morales, F., Stone, J., Spalding, E., Vaz, A., Hinz, P., Ertel, S, Howard, A., Isaacson, H., 2018, ApJ, 864, 42

38. *"The Multiple Pre-main-sequence System PR Ori and the Associated HH 305 Flow"*
Reipurth, B., Herbig, G. H., Bally, J., Geballe, T. R., **Bowler, B. P.**, Raga, A. C., Chiang, H.-F., Connelley, M. S., Aspin, C., 2018, AJ, 156

37. *"Constraints on the spin evolution of young planetary-mass companions"*
Bryan, M. L., Benneke, B., Knutson, H., Batygin, L., **Bowler, B. P.**, 2018, Nature Astronomy, 2, 138

36. *"A Direct Imaging Survey of Spitzer-detected Debris Disks: Occurrence of Giant Planets in Dusty Systems"*
Meshkat, T., Mawet, D., Bryan, M. L., Hinkley, S., **Bowler, B. P.**, Stapelfeldt, K. R., Batygin, K., Padgett, D., Morales, F. Y., Serabyn, E., Christiaens, V., Brandt, T. D., Wahhaj, Z., 2017, AJ, 154, 245

35. *"The Multiplicity of M Dwarfs in Young Moving Groups"*
Shan, Y., Yee, J. C., **Bowler, B. P.**, Cieza, L. A., Montet, B. T., Canovas, H., Liu, M. C., Close, L. M., Hinz, P. M., Males, J. R., Morzinski, K. M., Vaz, A., Bailey, V. P., Follette, K. B. 2017, ApJ, 846, 93

34. *"ALMA Observations of the Young Substellar Binary System 2M1207"*
Ricci, L., Cazzoletti, P., Czekala, I., Andrews, S. M., Wilner, D., Szucs, L., Lodato, G., Testi, L., Pascucci, I., Mohanty, S., Apai, D., Carpenter, J. M., **Bowler, B. P.**, 2017, AJ, 154, 24

33. *"No difference in orbital parameters of RV-detected giant planets between 0.1-5 au in single vs multi-stellar systems"*
Ngo, H., Knutson, H. A., Bryan, M. L., Blunt, S., Nielsen, E. L., Batygin, K., **Bowler, B. P.**, Crepp, J. R., Hinkley, S., Howard, A. W., Mawet, D., 2017, AJ, 153, 242

32. *"A Search for L/T Transition Dwarfs with Pan-STARRS1 and WISE. III. Young L Dwarf Discoveries and Proper Motion Catalogs in Taurus and Scorpius-Centaurus"*
Best, W. M. J., Liu, M. C., Magnier, E. A., **Bowler, B. P.**, et al. [16 total], 2017, ApJ, 837, 95

31. *"2MASS 0213+3648 C: A Wide T3 Benchmark Companion to an Active, Old M Dwarf Binary"*
Deacon, N. R., Magnier, E. A., Liu, Michael C., Schlieder, J. E., Aller, Kimberly M., Best, W. M. J., **Bowler, B. P.**, et al. [17 total], 2017, MNRAS, 467, 1126

30. *"K2-99: A Subgiant Hosting a Transiting Warm Jupiter in an Eccentric Orbit and a Long-period Companion"*
Smith, A. M. S., Gandolfi, D., Barragan, O., **Bowler, B. P.**, et al. [33 total], 2017, MNRAS, 464, 2708

* 29. *"Searching for Scatterers: High-Contrast Imaging of Young Stars Hosting Wide-Separation Planetary-Mass Companions"*
Bryan, M. L., **Bowler, B. P.**, Knutson, H. A., Kraus, Adam L., Hinkley, S., Mawet, D., Nielsen, E. L., Blunt, S. C., 2016, ApJ, 827, 100

28. *"Zodiacal Exoplanets In Time (ZEIT) I: A Neptune-sized planet orbiting an M4.5 dwarf in the Hyades Star Cluster"*
Mann, A. W., Gaidos, E., Mace, G. N., Johnson, M. C., **Bowler, B. P.**, LaCourse, D., Jacobs, T. L., Vanderburg, A., Kraus, A. L., Kaplan, K. F., Jaffe, D. T., 2016, ApJ, 818, 46

27. *"Planet Hunters. VIII. Characterization of 41 Long-Period Exoplanet Candidates from Kepler Archival Data"*
Wang, J., Fischer, D. A., Barclay, T., Picard, A., Ma, B., **Bowler, B. P.**, et al. [31 total], 2015, ApJ, 815, 127

* 26. *"Dynamical masses of Young M dwarfs. I. Masses and Orbital Parameters of GJ 3305 AB, the Wide Binary Companion to the Imaged Exoplanet Host 51 Eri"*
Montet, B. T., **Bowler, B. P.**, Shkolnik, E. L., Deck, K. M., Wang, J., Horch, E. P. Liu, M. C., Hillenbrand, L. A., Kraus, A. L., Charbonneau, D., ApJL, 813, 11

25. *"Stellar and Planetary Properties of K2 Campaign 1 Candidates and Validation of 18 Systems, Including a Planet Receiving Earth-like Insolation"*
Montet, B. T., Morton, T., Foreman-Mackey, D., Johnson, J., Hogg, D. W., **Bowler, B. P.**, Latham, D. W., Bieryla, A., Mann, A. W., 2015, ApJ, 809, 25

24. *"Early results from VLT SPHERE: Long-slit Spectroscopy of 2MASS 0122–2439 B, a Young Companion Near the Deuterium Burning Limit"*
Hinkley, S., **Bowler, B. P.**, Vigan, A., Aller, K. M., Liu, M. C., Mawet, D., Mattews, E., Wahhaj, Z., Kraus, S., Baraffe, I., Chabrier, G., 2015, ApJ, 805, 10

23. *"Characterizing K2 Planet Discoveries: A super-Earth transiting the bright K-dwarf HIP 116454"*
Vanderburg, A., et al., [15^{th} of 46 total], 2015, ApJ, 800, 59

22. *"An ALMA Disk Mass for the Candidate Protoplanetary Companion to FW Tau"*

Kraus, Adam L., Andrews, Sean M., **Bowler, B. P.**, Herczeg, Gregory, Ireland, Michael J., Liu, Michael C., Metchev, Stanimir, Cruz, Kelle L., 2015, ApJL, 798, 23

21. *"WISE J072003.20–084651.2: An Old and Active M9.5 + T5 Spectral Binary 6 pc from the Sun"*
Burgasser, A. J., Gillon, M., Melis, C., **Bowler, B. P.**, et al., 2015, AJ, 149, 104

20. *"Wide, Cool and Ultracool Companions to Nearby Stars from Pan-STARRS 1"*
Deacon, N. R., et al. [7^{th} of 21 total], 2014, ApJ, 792, 119

19. *"Three Wide Planetary-Mass Companions to FW Tau, ROXs 12, and ROXs 42B"*
Kraus, A. L., Ireland, M. J., Cieza, L. A., Hinkley, S., Dupuy, T. J., **Bowler, B. P.**, Liu, M. C., 2014, ApJ, 781, 20

18. *"LHS 2803B: A Very Wide Mid-T Dwarf Companion To An Old M Dwarf Identified From Pan-STARRS1"*
Deacon, N. R., Liu, M. C., Magnier, E. A., **Bowler, B. P.**, et al. [15 total], 2012, ApJ, 757, 100

17. *"Identifying the Young Low-Mass Stars Within 25 pc. II. Distances, Kinematics and Group Membership"*
Shkolnik, E. L., Anglada-Escude, G., Liu, M. C., **Bowler, B. P.**, Weinberger, A. J., Boss, A. P., Reid, I. N., Tamura, M., 2012, ApJ, 758, 56

16. *"Two Extraordinary Substellar Binaries at the T/Y Transition and the Y-Band Fluxes of the Coolest Brown Dwarfs"*
Liu, M. C., Dupuy, T. J., **Bowler, B. P.**, Leggett, S. K., Best, W. M. J., 2012, ApJ, 758, 57L

15. *"HIP 38639B: A New Benchmark T Dwarf in the Galactic Plane Discovered with Pan-STARRS1"*
Deacon, N. R., Liu, M. C., Magnier, E. A., **Bowler, B. P.**, et al. [16 total], 2012, ApJ, 755, 94

14. *"The Gemini NICI Planet-Finding Campaign: Discovery of a Multiple System Orbiting the Young A Star HD 1160"*
Nielsen, E. L., et al. [7^{th} of 25 total], 2012, ApJ, 750, 53

13. *"The Young Cluster in IC 1274"*
Dahm, S. E., Herbig, G. H., **Bowler, B. P.**, 2011, AJ, 143, 3

12. *"Beryllium and Alpha-Element Abundances in a Large Sample of Metal-Poor Stars"*
Boesgaard, A. M., Rich, J. A., Levesque, E., **Bowler, B. P.**, 2011, ApJ, 743, 140

11. *"Retired A Stars and Their Companions. VII. Eighteen New Jovian Planets"*
Johnson, J. A., Clanton, C., Howard, A. W., **Bowler, B. P.**, et al. [12 total], 2011, ApJS, 197, 26

10. *"A Search for Hight Proper Motion T Dwarfs with Pan-STARRS 1 + 2MASS + WISE"*
Liu, M. C., Deacon, N. R., Magnier, E. A., Dupuy, T. J., Aller, K. M., **Bowler, B. P.**, et al. [17 total], 2011, ApJ, 740, 32L

9. *"Four New T Dwarfs Identified in Pan-STARRS 1 Commissioning Data"*
Deacon, N. R., Liu, M. C., Magnier, E. A., **Bowler, B. P.**, et al. [17 total], 2011, AJ, 142, 77

8. *"CFBDSIR J1458+1013B: A Very Cold (>T10) Brown Dwarf in a Binary System"*
Liu, Michael C., Delorme, Philippe, Dupuy, Trent J., **Bowler, B. P.**, Albert, Loic, Artigau, Etienne, Reyle, Celine, Forveille, Thierry, & Delfosse, Xavier, 2011, ApJ, 740, 108

7. *"Retired A Stars and Their Companions. VI. A Pair of Interacting Exoplanet Pairs Around the Subgiants 24 Sextanis and HD 200964"*
Johnson, J. A., Payne, M., Howard, A. W., Clubb, K.I., Ford, E. B., **Bowler, B. P.**, Henry, G. W., Fischer, D.A., Marcy, G. W., Brewer, J. M., Schwab, C., Reffert, S., & Lowe, T. B. 2011, AJ, 141, 16

6. *"Studying the Physical Diversity of Late-M Dwarfs with Dynamical Masses"*
Dupuy, T. J., Liu, M. C., **Bowler, B. P.** Cushing, M. C., Helling, C., Witte, S., & Hauschildt, P. 2010, ApJ, 721, 1725.

5. *"A Hot Jupiter Orbiting the 1.7 $M_{\odot}$ Subgiant HD 102956"*
Johnson, J. A., **Bowler, B. P.**, Howard, A.W., Henry, G. W., Marcy, G.W., Isaacson, H., Brewer, J.M., Fischer, D. A., Morton, T.D., & Crepp, J.R. 2010, ApJ, 721, L153.

4. *"Retired A Stars and Their Companions. IV. Seven Jovian Exoplanets from Keck Observatory"*
Johnson, J. A., Howard, A.W., **Bowler, B. P.**, Henry, G. W., Marcy, G. W., Wright, J. T., Fischer, D. A., & Isaacson, H. 2010, PASP, 122, 701

3. *"The California Planet Survey II. A Saturn-Mass Planet Orbiting the M Dwarf Gl649"*
Johnson, J. A., Howard, A. W., Marcy, G. W., **Bowler, B. P.**, Henry, G. W., Fischer, D. A., Apps, K., Isaacson, H., & Wright, J. T. 2010, PASP, 122, 149

2. *"Dynamical Mass of the M8+M8 Binary 2MASS J22062280-2047058AB"*
Dupuy, T. J., Liu, M. C., **Bowler, B. P.** 2009, ApJ 706, 328

1. *"Star Formation in NGC 2023, 2024, and Southern L1630"*
Meyer, M. R., Flaherty, K., Levine, J. L., Lada, E. A., **Bowler, B. P.**, & Kandori, R. 2008, in Handbook of Star Forming Regions, Vol I: The Northern Sky, ed. Bo Reipurth, ASP Monograph Series.

Other Publications

Review Chapters:

1. *"Occurrence Rates from Direct Imaging Surveys"*
Bowler, B.P. & Nielsen, Eric L., Handbook of Exoplanets, ed. Hans Deeg, Juan Antonio, and Belmonte Aviles, (Berlin: Springer,), 155.

White Papers and Conference Proceedings (Lead Author):

1. *"Astro 2020 Science White Paper: The Demographics and Atmospheres of Giant Planets with the ELTs"*

Bowler, B. P., Sallum, S., Boss, A., Brandt, T., Briesemeister, Z., Bryan, M., Crepp, J., Currie, T., Fortney, J., Girard, J., Jensen-Clem, R., Kama, M., Kraus, A., Konopacky, Q., Liu, M., Marley, M., Mawet, D., Meshkat, T., Meyer, M., Morley, C., Skemer, A., Wang, J., Wu, Y., Close, L., Marois, C., Nielsen, E., 2019, arXiv:1903.06299

White Papers and Conference Proceedings (Co-author):

12. *"Astro 2020 Science White Paper: Imaging Giant Protoplanets with the ELTs"*
Sallum, S., Bailey, V., Bernstein, R. A., et al. [30 total], 2019, BAAS, 51, 227

11. *"Astro 2020 Science White Paper: Realizing the Promise of High-Contrast Imaging: More Than 100 Gas-Giant Planets with Masses, Orbits, and Spectra Enabled by Gaia+WFIRST Astrometry"*
Brandt, T., Briesemeister, Z., Savransky, D., et al. [32 total], 2019, BAAS, 51, 269

10. *"Astro 2020 Science White Paper: Observing Planetary Systems in the Making"*
Isella, A., Ricci, L., Andrews, S., et al. [56 total], 2019, BAAS, 51, 174

9. *"Astro 2020 Science White Paper: The IMF at Very Low Mass Using Near-IR Surveys from Space: The Need for Deep K-band Imaging"*
Stauffer, J., Kirkpatrick, J. D., Zhang, Z., **Bowler, B.**, Burgasser, A., Wolk, S., Andersen, M., Carey, S., Megeath, T., Gennaro, M., 2019, BAAS, 51, 94

8. *"Astro 2020 Science White Paper: Modeling Debris Disk Evolution"*
Gaspar, A., Apai, D., Augereau, J.-C., et al. [46 total], 2019, BAAS, 51, 69

7. *"Astro 2020 Science White Paper: The Early Evolution of Stars and Exoplanet Systems: Exploring and Exploiting Nearby, Young Stars"*
Kastner, J. H., Allers, K., **Bowler, B. P.**, Currie, T., Drake, J., Dupuy, T., Faherty, J., Gagne, J., Liu, M., Mamajek, E., Mawet, D., Shkolnik, E., Song, I., White, R., Zuckerman, B., 2019, arXiv:1903.06242

6. *"The Science Advantage of a Redder Filter for WFIRST"*
Stauffer, J., Helou, G., Benjamin, R. A., Marengo, M., Kirkpatrick, J. D., Capak, P., Kasliwal, M., Bauer, J. M., Minniti, D., Bally, J., Lodieu, N., **Bowler, P. B.**, Zhang, Z., Carey, S. J., Milam, S., Holler, B. 2018, arXiv:1806.0054

5. *"LASSO: Large Adaptive Optics Survey for Substellar Objects using the new SAPHIRA detector on Robo-AO"*
Salama, M., Ou, J., Baranec, C., Liu, M. C., **Bowler, P. B.**, et al. [16 total] 2018, Proc. SPIE, 10703, 1070307

4. *"Keck Planet Imager and Characterizer (KPIC): concept and phased implementation"*
Mawet, D., Wizinowich, P. Dekany, R., Chun, M., Hall, D., Cetre, S., Guyon, O., Wallace, J. K., **Bowler, P. B.**, et al. [23 total] 2016, Proc. SPIE, 9909, 99090D

3. *"PULSE: The Palomar Ultraviolet Laser for the Study of Exoplanets"*
Baranec, C., Dekany, R. G., Burruss, R. S., **Bowler, B.P.**, van Dam, M., Riddle, R., Shelton, J. C., Truong, T., Roberts, J., Milburn, J., Tesch, J. 2014, Proc. SPIE 9148, 126

2. *"New Beryllium Results in Halo Stars From Keck/HIRES Spectra"*
Boesgaard, A. M., Rich, J. A., Levesque, E. M., **Bowler, B.P.** 2010, in "Light Elements in the Universe," Proc. IAU, 268. eds. C. Charbonnel, M. Tosi, F. Primas, & C. Chiappini.

1. *"Determining the Metallicity of Low-Mass Stars and Brown Dwarfs: Tools for Probing Fundamental Stellar Astrophysics, Tracing Chemical Evolution of the Milky Way, and Identifying the Hosts of Extrasolar Planets"*
West, A. A., Bochanski, J. J., **Bowler, B.P.**, Dotter, A., Johnson, J. A., Lepine, S., Rojas-Ayala, B., & Schweitzer, A. 2011, to appear in the 16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, ASP Conference Series 448.

AAS Research Notes:

1. *"Dynamical Masses of Young Stars Inferred from Two Transitions of CO with ALMA"*
Premnath, P. H., Wu, Y.-L., **Bowler, B.P.**, Sheehan, P. D., 2020, RNAAS, 4, 100

2. *"Measuring the Mass of the Faint Companion to FW Tau with ALMA"*
Mora, A., Wu, Y.-L., **Bowler, B.P.**, Sheehan, P. D., 2020, RNAAS, 4, 1