

Samuel Yee

Updated December 11, 2025

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Research Interests	Exoplanet statistics and characterization Architectures and dynamics of planetary systems	
Appointments	University of California, Los Angeles 51 Pegasi b Postdoctoral Fellow Supervisor: Erik Petigura	Los Angeles, CA 10/2025 – present
	Center for Astrophysics Harvard & Smithsonian 51 Pegasi b Postdoctoral Fellow Supervisor: Dave Charbonneau	Cambridge, MA 09/2023 – 09/2025
Education	Princeton University Ph.D., Astrophysics; M.Sc., Astrophysics (2020) Thesis: <i>The TESS Grand Unified Hot Jupiter Survey</i> Advisor: Joshua Winn	Princeton, NJ 09/2018 – 08/2023
	California Institute of Technology B.S., Physics, with Minor in Geological and Planetary Sciences	Pasadena, CA 09/2014 - 06/2018
Awards	Heising-Simons 51 Pegasi b Fellowship Princeton University Centennial Fellowship George W. Housner Prize for Academic Excellence and Original Research Best Poster, Know Thy Star Conference	2023 – 2027 2018 – 2023 2018 2017
Publication Summary (see below for full list)	19 major author (1st–3rd author) publications 33 contributing author publications	[ADS Library] [ADS Library]
Observing Programs	Summary: I have led as PI or co-PI observing programs across more than 100 nights on various ground-based facilities, including 35 nights on 6–10m class telescopes. Keck – 6 nights (NASA / NOIRLab); 3 nights (UC Observatories) Gemini-North – 7.6 nights (NOIRLab) Magellan – 19.5 nights (Princeton / Harvard) WIYN 3.5m – 27 nights (NOIRLab) CTIO 1.5m – 43 nights (NOIRLab)	2021B–2023B; 2026A 2024A–2026A 2021B–2025B 2021B–2025B 2021B–2025B
Advising	Jea Adams Redai – Harvard PhD Student <i>Discovery of a Brown Dwarf Transiting a Thick Disk Star</i> Victoria DiTomasso – Harvard PhD Student <i>A Homogeneous Spectroscopic Analysis of Hot Jupiter Host Stars</i> Tarisai Dziire – NYU Shanghai Undergraduate <i>Characterizing the Hot Jupiter with the Largest TTVs</i>	
Grants	Heising-Simons 51 Pegasi b Fellowship NASA Keck PI Data Awards (Science PI, 2022B–2023B)	\$415k \$45k

	NASA WIYN PI Data Awards (Science PI, 2021B-2023B)	\$39k
Selected Presentations	University of Hawai'i Astronomy Colloquium (<i>invited seminar</i>) UCLA EPSS Department Colloquium (<i>invited seminar</i>) UT Austin Department of Astronomy Colloquium (<i>invited seminar</i>) Know thy Star 2, Pasadena (<i>contributed talk</i>) Michigan State University Astronomy Colloquium, Lansing, MI (<i>invited seminar</i>) Exoplanets V, Leiden (<i>contributed plenary session talk</i>) Extreme Solar Systems V, Christchurch (<i>contributed talk</i>) Open Problems in the Astrophysics of Gas Giants, Puerto Natales (<i>contributed talk</i>) Harvard CfA Exoplanet Pizza Lunch (<i>invited seminar</i>) AAS General Meeting 241, Seattle (<i>contributed talk</i>) TESS Science Team Meeting #29, Cambridge, MA (<i>contributed talk</i>) Harvard CfA Seminar, Cambridge, MA (<i>invited seminar</i>) MIT TESS Science Talk, Cambridge, MA (<i>invited seminar</i>) ERES VII, State College (<i>contributed talk</i>) Exoplanets IV, Las Vegas (<i>contributed plenary session talk</i>) Yale Exoplanets and Stars Seminar (<i>invited seminar</i>) AAS Division of Dynamical Astronomy Meeting 52, online (<i>contributed talk</i>)	Nov 2025 Nov 2025 Mar 2025 Feb 2025 Nov 2024 Jun 2024 Mar 2024 Dec 2023 Oct 2023 Jan 2023 Oct 2022 Oct 2022 Oct 2022 Aug 2022 May 2022 Apr 2022 May 2021
Teaching	Assistant in Instruction <i>AST 205, Planets in the Universe</i> Teaching Assistant <i>Ph 12c, Statistical Mechanics</i> <i>Ph 12b, Quantum Mechanics</i> Peer Tutor	Princeton Sep 2019 – Jan 2020 Caltech Mar 2018 – Jun 2018 Jan 2018 – Mar 2018 Caltech, 2016 – 2018
Professional Activities	Referee, <i>AAS Journals, MNRAS, A&A, PASP</i> Panel Member, NASA and NOIRLab Time Allocation Committees External Panelist, JWST and HST Time Allocation Committees Expert Reviewer, NASA Peer Review Panel External Reviewer, Canada Time Allocation Committee Virtual Organizing Committee, <i>Emerging Researchers in Exoplanet Science (ERES) V</i>	2020 – present 2024 – present 2024 – present 2025 2025 2021
Code	Bhatti, W., Bouma, L., & Yee, S. W. <i>cdips-pipeline: difference-imaging photometry pipeline</i> Yee, S. W. , Petigura, E., von Braun, K. <i>SpecMatch-Emp: stellar characterization using an empirical spectral library</i>	
Press Coverage	<i>CNN: This exoplanet is in a death dance with its star</i> <i>Popular Science: This pitch-black exoplanet is spiraling toward its doom</i>	
Outreach & Service	<i>Princeton Public Observing:</i> Organize and host members of the public at observing events using the Princeton department telescope. <i>Intro2Astro:</i> Gave lectures for Intro2Astro, an online summer course introducing students to astronomy research. <i>Astro Department Graduate Student Mentorship Program,</i> Princeton University <i>Graduate Student Buddy Program,</i> Princeton University	Princeton University

Publication List

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Major Author Publications [ADS Library]

- 13 first author, 3 led by students I have directly mentored (denoted by [†]).
19. [†]Dziire, T., **Yee, S. W.**, et al. *Confirmation of the Hot Jupiter with the Largest TTVs and its Non-Transiting Companion.* in prep (2025).
 18. [†]DiTomasso, V., **Yee, S. W.**, et al. *A Sample of Thick Disk Stars Hosting Hot Jupiters.* submitted to AAS Journals (2025).
 17. [†]Adams Redai, J., Chanda, V., **Yee, S. W.**, [†]DiTomasso, V. et al. *The First Transiting Brown Dwarf Orbiting a Thick Disk Star.* under review at ApJ Letters (2025). [[arXiv:2512.06069](#)]
 16. **Yee, S. W.** & Vissapragada, S. *Popcorn Planets are Not Inflated by Eccentricity Tides.* under review at ApJ Letters (2025). [[arXiv:2511.07746](#)]
 15. **Yee, S. W.**, Tamburo, P., Stefansson, G., et al. *The Polar Orbit of TOI-2374 b, a Planet in the Neptunian Ridge.* AJ, 170, 275.
 14. Tamburo, P., **Yee, S. W.**, García-Mejía, J. et al. *Spot-Crossing Variations Confirm a Misaligned Orbit for a Planet Transiting an M Dwarf.* AJ, 170, 200 (2025).
 13. **Yee, S. W.**, Winn, J., Hartman, J., et al. *The TESS Grand Unified Hot Jupiter Survey III. Thirty New Planets.* ApJS, 280, 30 (2025).
 12. Tamburo, P., **Yee, S. W.**, García-Mejía, J. et al. *The True Stellar Obliquity of a Sub-Saturn Planet from the Tierras Observatory and KPF.* AJ, 170, 34 (2025).
 11. **Yee, S. W.**, Stefansson, G., Thorngren, D. P. et al. *The Super-Puff WASP-193 b is on a Well-Aligned Orbit.* AJ, 169, 225 (2025).
 10. McKee, B., Montet, B., **Yee, S. W.** et al. *A Planet Candidate Orbiting near the Hot Jupiter TOI-2818 b Inferred through Transit Timing.* ApJ, 981, 106 (2025).
 9. **Yee, S. W.**, Petigura, E., Isaacson, H., et al. *Additional Doppler Monitoring Corroborates HAT-P-11c as a Planet.* RNAAS, 8, 187 (2024).
 8. **Yee, S. W.** & Winn, J. *The Period Distribution of Hot Jupiters is Not Dependent on Host Star Metallicity.* ApJL, 949, L21 (2023).
 7. **Yee, S. W.**, Winn, J., Hartman, J., et al. *The TESS Grand Unified Hot Jupiter Survey II. Twenty New Giant Planets.* ApJS, 265, 1 (2023).
 6. **Yee, S. W.**, Winn, J., Hartman, J., et al. *The TESS Grand Unified Hot Jupiter Survey I. Ten TESS Planets.* AJ, 164, 70 (2022).
 5. **Yee, S. W.**, Winn, J. & Hartman, J. *How Complete Are Surveys for Nearby Transiting Hot Jupiters?* AJ, 162, 240 (2021).
 4. **Yee, S. W.**, Tamayo, D., Hadden, S. & Winn, J. *How Close are Compact Multi-Planet Systems to the Stability Limit?* AJ, 162, 55 (2021).
 3. **Yee, S. W.**, Winn, J., Knutson, H., et al. *The Orbit of WASP-12b is Decaying.* ApJL, 888, L5 (2020).
 2. **Yee, S. W.**, Petigura, E., Fulton, B., et al. *HAT-P-11: Discovery of a Second Planet and a Clue to Understanding Exoplanet Obliquities.* AJ, 155, 255 (2018).
 1. **Yee, S. W.**, Petigura, E. & von Braun, K. *Precision Stellar Characterization of FGKM Stars using an Empirical Spectral Library.* ApJ, 836, 77 (2017).

Contributing Author Publications [ADS Library]

33. Bieryla, A., et al. incl. **Yee, S. W.** *TOI-6692b: An eccentric 130 day period giant planet with a single transit from TESS*. submitted to AAS Journals (2025).
32. Quinn, S., et al. incl. **Yee, S. W.** *TOI-2494 b and TOI-5143 b: a pair of hot giant planets flanked by inner small planets*. submitted to AAS Journals (2025).
31. Wu, Y., et al. incl. **Yee, S. W.** *Detection of four cold Jupiters through combined analyses of radial velocity and astrometry data*. submitted to AAS Journals (2025).
30. Gomez Barrientos, J., et al. incl. **Yee, S. W.** *From Earths to Super-Earths: Five New Small Planets Transiting M Dwarf Stars*. accepted to AJ (2025).
29. Manni, F., et al. incl. **Yee, S. W.** *The Hot Neptune Initiative (HONeI) II. TOI-5795 b: A hot super-Neptune orbiting a metal-poor star*. A&A, 701, 230 (2025).
28. Schulte, J., et al. incl. **Yee, S. W.** *Migration and Evolution of giant ExoPlanets (MEEP) II: Super-Jupiters and Lithium-rich Host Stars*. MNRAS, 543, 292 (2025).
27. Essack, Z., et al. incl. **Yee, S. W.** *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. VI: Confirmation of a Long-Period Giant Planet Discovered with a Single TESS Transit*. AJ, 170, 109 (2025).
26. Naponeillo, L., et al. incl. **Yee, S. W.** *The Hot-Neptune Initiative (HONeI) I. Two hot sub-Neptunes on a close-in, eccentric orbit (TOI-5800 b) and a farther-out, circular orbit (TOI-5817 b)*. A&A, 701, 79 (2025).
25. Howard, A. W., et al. incl. **Yee, S. W.** *Planet Masses, Radii, and Orbits from NASA's K2 Mission*. ApJS, 278, 52 (2025).
24. Brinkman, C. L., et al. incl. **Yee, S. W.** *The Compositions of Rocky Planets in Close-in Orbits Tend to be Earth-Like*. AJ, 170, 109 (2025).
23. Hon, M., et al. incl. **Yee, S. W.** *A Disintegrating Rocky Planet with Prominent Comet-like Tails Around a Bright Star*. ApJL, 984, L3 (2025).
22. Van Zandt, J., et al. incl. **Yee, S. W.** *The TESS-Keck Survey XXIV: Outer Giants may be More Prevalent in the Presence of Inner Small Planets*. AJ, 169, 235 (2025).
21. Saunders, N., et al. incl. **Yee, S. W.** *TESS Giants Transiting Giants. VII. A Hot Saturn Orbiting an Oscillating Red Giant Star*. AJ, 169, 75 (2025).
20. Ehrhardt, J., et al. incl. **Yee, S. W.** *Confirmation of four Hot Jupiters detected by TESS using follow-up spectroscopy from MaHPS at Wendelstein together with NEID and TRES*. A&A, 692, 220 (2024).
19. Isaacson, H., et al. incl. **Yee, S. W.** *The California Legacy Survey. V. Cataloging Chromospheric Activity Cycles of Planet Search Stars*. ApJS, 274, 35 (2024).
18. Alqasim, A., et al. incl. **Yee, S. W.** *TOI-757 b: an eccentric transiting mini-Neptune on a 17.5-d orbit*. MNRAS, 533, 1 (2024).
17. Radzom, B., et al. incl. **Yee, S. W.** *Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact Sub-Saturn Systems*. AJ, 168, 116 (2024).
16. Dai, F., et al. incl. **Yee, S. W.** *An Earth-sized Planet on the Verge of Tidal Disruption*. AJ, 168, 101 (2024).
15. Hacker, A., et al. incl. **Yee, S. W.** *TOI-2374 b and TOI-3071 b: two metal-rich sub-Saturns well within the Neptunian desert*. MNRAS, 532, 1612 (2024).
14. Schulte, J., et al. incl. **Yee, S. W.** *Migration and Evolution of giant ExoPlanets (MEEP) I: Nine Newly Confirmed Hot Jupiters from the TESS Mission*. AJ, 168, 101 (2024).
13. Polanski, A., et al. incl. **Yee, S. W.** *The TESS-Keck Survey XX: 15 New TESS Planets and a Uniform RV Analysis of all Survey Targets*. ApJS, 272, 32 (2024).
12. Louden, E., et al. incl. **Yee, S. W.** *A Larger Sample Confirms Small Planets Around Hot Stars Are Misaligned*. ApJL, 968, L2 (2024).
11. Battley, M., et al. incl. **Yee, S. W.** *NGTS-30 b/TOI-4862 b: An ~1 Gyr old 98-day transiting warm Jupiter*. A&A, 686,

10. Hu, Q., et al. incl. **Yee, S. W.** *The PFS view of TOI-677 b: A spin-orbit aligned warm Jupiter in a dynamically hot system.* AJ, 167, 175 (2024).
9. Rubenzahl, R., et al. incl. **Yee, S. W.** *The TESS-Keck Survey. XII. A Dense $1.8 R_{\oplus}$ Ultra-Short-Period Planet Possibly Clinging to a High-Mean-Molecular-Weight Atmosphere After the First Gyr.* AJ, 167, 53 (2024).
8. Delamer, M., et al. incl. **Yee, S. W.** *TOI-4201: An Early M-dwarf Hosting a Massive Transiting Jupiter Stretching Theories of Core Accretion.* ApJL, 962, L22 (2024).
7. Schmidt, S., et al. incl. **Yee, S. W.** *Verification of Gaia DR3 Single-lined Spectroscopic Binary Solutions With Three Transiting Low-mass Secondaries.* AJ, 166, 225 (2023).
6. Psaridi, A., et al. incl. **Yee, S. W.** *Three Saturn-mass planets transiting F-type stars revealed with TESS and HARPS.* A&A, 675, A39 (2023).
5. MacDougall, M. G. et al., incl. **Yee, S. W.** *The TESS-Keck Survey. XV. Precise Properties of 108 TESS Planets and Their Host Stars.* AJ, 166, 33 (2023).
4. Zink, J. K. et al., incl. **Yee, S. W.** *Scaling K2. VI. Reduced Small Planet Occurrence in High Galactic Amplitude Stars.* AJ, 165, 262 (2023).
3. Fraizer, R. C. et al., incl. **Yee, S. W.** *NEID Reveals that The Young Warm Neptune TOI 2076b Has a Low Obliquity.* ApJL, 944, L41 (2023).
2. Essack, Z. E. et al., incl. **Yee, S. W.** *TOI-1075 b: A Dense, Massive, Ultra-Short Period Hot Super-Earth Straddling the Radius Gap.* AJ, 165, 47 (2023).
1. Petigura, E. et al., incl **Yee, S. W.** *Planet Candidates from K2 Campaigns 5-8 and Follow-up Optical Spectroscopy.* AJ, 155, 21 (2018).