

Dr. Kendall Sullivan (they/them)

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Employment History

- Sept. 2023 – present 📌 **Postdoctoral Scholar**, University of California Santa Cruz
Supervisor: Prof. Natalie Batalha
- Sept. 2020 – Aug. 2023 📌 **NSF Graduate Research Fellow**, University of Texas at Austin
Thesis Advisor: Prof. Adam Kraus
- Jan. 2018 – Sept. 2018 📌 **Post-Baccalaureate Researcher**, Lowell Observatory
Supervisor: Dr. Lisa Prato

Education

- Sept. 2018 – Aug. 2023 📌 **Ph.D., Astronomy** University of Texas at Austin
Revealing Star and Planet Formation With Stellar Multiplicity
- Sept. 2014 – Jan. 2018 📌 **B.S., Physics/Astronomy, cum laude** University of Massachusetts Amherst
Commonwealth Honors College Scholar with Great Distinction
Departmental Honors in Astronomy
S and VV Coronae Australis: Two Extreme Young Binary Systems

Awards and Fellowships

- 2023 📌 **Rodger Doxsey Dissertation Award**, American Astronomical Society
- 2020 📌 **Board of Visitors Second Year Defense Award**, University of Texas at Austin
📌 **Graduate Research Fellowship (5 years)**, National Science Foundation
- 2018 📌 **Dean's Unrestricted Fellowship (5 years)**, University of Texas at Austin
📌 **Astronomy Dept. Recruitment Fellowship (2 summers)**, University of Texas at Austin

Invited and Contributed Talks

- Oct. 2024 📌 University of Wisconsin – Madison (invited seminar)
- Sept. 2024 📌 Yale University (invited seminar)
📌 Keck Science Meeting (contributed plenary)
- June 2024 📌 Cool Stars 22 (contributed plenary)
- April 2024 📌 Penn State/Center for Exoplanets and Habitable Worlds (invited seminar)
- March 2024 📌 Extreme Solar Systems V (contributed plenary)
- Feb. 2023 📌 Jet Propulsion Lab Exoplanet Seminar (invited seminar)
- Jan. 2023 📌 Dissertation Talk, AAS 241 (contributed)
📌 NASA ExoPAG 27 Early Career Symposium (contributed plenary)
- Oct. 2022 📌 University of Hawai'i/IfA (invited seminar)

PI Observing Programs

- Lick Observatory
 - Shane 3-m/ShaneAO + ShARCS - 8 nights, 2024 A+B
 - Automated Planet Finder - 100 hours, 2024B
 - Nickel 1-m/CCD-C2 - 20 nights, 2024A
- McDonald Observatory
 - Hobby-Eberly Telescope/LRS2-R - 100 hours, 6 trimesters over 2021-2023
- NOIRLab/NOAO
 - Gemini South/GMOS - 2.2 hours, 2021B
 - IRTF/iSHELL - 4 half nights, 2019B
 - KPNO/WIYN 0.9m telescope - 6 nights, 2017/2018

Service and Outreach

- AAS Journals; A&A; Nature
 - Reviewer, 2023 – present
- NASA
 - ExoPAG SIG2 on Exoplanet Demographics, 2023–present
 - Grant Review Panel Executive Secretary, 2 years
- UC Santa Cruz
 - Ask an Astronomer, 2024–present
- UT Austin
 - Graduate-Undergraduate Mentoring Program co-lead, 2021–2023
 - TAURUS/REU weekly seminar lead organizer, 2 years
 - Graduate Student Assembly Representative, 2021–2022

Teaching Experience

- AAPT
 - Faculty Teaching Institute, Nov. 2024
- UC Santa Cruz
 - ASTR 9 (Introduction to Research) group leader, Winter/Spring 2024
 - ASTR 19 (Introduction to Python) guest lecturer, Feb. 2024
- UT Austin
 - Graduate Student Observing Seminar lecturer, Feb. 2023
 - TAURUS/REU Introduction to Astronomy Jargon Seminar developer and lead, 2 summers

Mentored Students

- UC Santa Cruz
 - Nina Carrillo, UCSC undergraduate, Fall 2024–present
 - Ira Gupta, UCSC undergraduate, Fall 2024–present
 - M Clark, Lamat scholar, Summer 2024 - present
 - 6 student group, ASTR 9, Winter/Spring 2024
- UT Austin
 - Nathanael Burns-Watson, UT REU, Case Western Reserve University senior thesis, UT graduate student, Summer 2023–present
 - Hunter Brooks, Northern Arizona University undergraduate, 2022–2023

Publications (First-author = 10)

- 1 K. Sullivan and N. M. Batalha, “A Probabilistic Approach to Assembling Statistical Samples of Binary Stars”, in review at AAS Journals.

- 2 K. Sullivan, A. L. Kraus, T. A. Berger, and D. Huber, “Quantifying the Contamination From Nearby Stellar Companions in Gaia DR3 Photometry”, in review at AAS Journals.
- 3 E. L. Evans, T. J. Dupuy, K. Sullivan, A. L. Kraus, D. Huber, M. J. Ireland, M. Ansdell, R. L. Kuruwita, R. A. Martinez, and M. L. Wood, “Orbital Architectures of Planet-Hosting Binaries III. Testing Mutual Inclinations of Stellar and Planetary Orbits in Triple-Star Systems”, arXiv e-prints, arXiv:2409.02223, arXiv:2409.02223 (2024).
- 4 K. Sullivan and A. L. Kraus, “Starspots and Undetected Binary Stars Have Distinct Signatures in Young Stellar Associations”, *ApJ* **969**, 117, 117 (2024).
- 5 K. Sullivan, A. L. Kraus, T. A. Berger, T. J. Dupuy, E. Evans, E. Gaidos, D. Huber, M. J. Ireland, A. W. Mann, E. A. Petigura, P. C. Thao, M. L. Wood, and J. Zhang, “Revising Properties of Planet–Host Binary Systems. IV. The Radius Distribution of Small Planets in Binary Star Systems Is Dependent on Stellar Separation”, *AJ* **168**, 129, 129 (2024).
- 6 K. Sullivan, A. L. Kraus, D. Huber, E. A. Petigura, E. Evans, T. Dupuy, J. Zhang, T. A. Berger, E. Gaidos, and A. W. Mann, “Revising Properties of Planet-Host Binary Systems. III. There Is No Observed Radius Gap for Kepler Planets in Binary Star Systems”, *AJ* **165**, 177, 177 (2023).
- 7 K. Sullivan and A. L. Kraus, “Optical and Near-infrared Excesses are Correlated in T Tauri Stars”, *ApJ* **928**, 134, 134 (2022).
- 8 K. Sullivan and A. L. Kraus, “Revising Properties of Planet-Host Binary Systems. II. Apparent Near-Earth-analog Planets in Binaries Are Often Sub-Neptunes”, *AJ* **164**, 138, 138 (2022).
- 9 K. Sullivan, A. L. Kraus, and A. W. Mann, “Revising Properties of Planet-Host Binary Systems. I. Methods and Pilot Study”, *ApJ* **935**, 141, 141 (2022).
- 10 L. A. Nofi, C. M. Johns-Krull, R. López-Valdivia, L. Biddle, A. S. Carvalho, D. Huber, D. Jaffe, J. Llama, G. Mace, L. Prato, B. Skiff, K. R. Sokal, K. Sullivan, and J. Tayar, “Projected Rotational Velocities and Fundamental Properties of Low-mass Pre-main-sequence Stars in the Taurus-Auriga Star-forming Region”, *ApJ* **911**, 138, 138 (2021).
- 11 K. Sullivan and A. L. Kraus, “Undetected Binary Stars Cause an Observed Mass-dependent Age Gradient in Upper Scorpius”, *ApJ* **912**, 137, 137 (2021).
- 12 L. Flagg, C. M. Johns-Krull, L. Nofi, J. Llama, L. Prato, K. Sullivan, D. T. Jaffe, and G. Mace, “CO Detected in CI Tau b: Hot Start Implied by Planet Mass and M_K ”, *ApJL* **878**, L37, L37 (2019).
- 13 K. Sullivan, L. Prato, S. Edwards, I. Avilez, and G. H. Schaefer, “S and VV Corona Australis: Spectroscopic Variability in Two Young Binary Star Systems”, *ApJ* **884**, 28, 28 (2019).
- 14 J. A. Irwin, P. Schmidt, A. Damas-Segovia, R. Beck, J. English, G. Heald, R. N. Henriksen, M. Krause, J.-T. Li, R. J. Rand, Q. D. Wang, T. Wiegert, P. Kamieneski, D. Paré, and K. Sullivan, “CHANG-ES - VIII. Uncovering hidden AGN activity in radio polarization”, *MNRAS* **464**, 1333–1346 (2017).