

# Dr. Kendall Sullivan (they/them)

✉ ksulliv4@ucsc.edu

🌐 kendallsullivan.github.io

🌐 ORCID: 0000-0001-6873-8501

## 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

- Aug. 2023    📌 **Ph.D., Astronomy** University of Texas at Austin  
*Revealing Star and Planet Formation With Stellar Multiplicity*
- Feb. 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

## Selected 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    📌 NASA ExoPAG 27 Early Career Symposium (contributed plenary)

## PI Observing Programs

- NOIRLab/NN-Explore    📌 **WIYN 3.5m/NEID - 7h**, 2025A
- 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

## PI Observing Programs (continued)

McDonald Observatory	■	<b>Hobby-Eberly Telescope/LRS2 - 197 hours</b> , 6 trimesters over 2021-2023 (PI; 163 h); 2025-2 (science PI; 34 h)
NOIRLab/NOAO	■	<b>Gemini South/GMOS - 2.2 hours</b> , 2021B
	■	<b>IRTF/iSHELL - 4 half nights</b> , 2019B
	■	<b>KPNO/WIYN 0.9m telescope - 2 nights</b> , 2017/2018

## Service

AAS Journals; A&A; Nature	■	<b>Referee</b> , 2023 – present
NASA	■	<b>ExoPAG SIG2 on Exoplanet Demographics</b> , 2023–present
	■	<b>Grant Review Panel Executive Secretary</b> , 2 years
UC Observatories, NOIRlab	■	<b>Time Allocation Committee</b> , multiple semesters
UT Austin	■	<b>Graduate-Undergraduate Mentoring Program co-lead</b> , 2021–2023
	■	<b>TAURUS/REU weekly seminar lead organizer</b> , 2 years
	■	<b>Graduate Student Assembly Representative</b> , 2021–2022

## Outreach

Nature	■	<b>News and Views author: <i>Dying stars give a second wind to exoplanet formation</i></b> , May 2025
UC Santa Cruz	■	<b>Astronomy on Tap speaker</b> , May 2025
	■	<b>Ask an Astronomer</b> , 2024–present

## Teaching Experience

UC Santa Cruz	■	<b>ASTR 112 (Physics of Stars) instructor</b> , Spring 2025
UT Austin	■	<b>TAURUS/REU Introduction to Astronomy Jargon Seminar developer and lead</b> , 2 summers

## Mentored Students

UC Santa Cruz	■	<b>ASTR 9 group</b> , 5-6 students, Winter/Spring 2024, Winter/Spring 2025
	■	<b>Nina Carrillo</b> , UCSC undergraduate, Sept. 2024–present
	■	<b>Ira Gupta</b> , UCSC undergraduate, Sept. 2024–present
	■	<b>M Clark</b> , Lamat scholar, June 2024 - Dec. 2024
UT Austin	■	<b>Nathanael Burns-Watson</b> , UT REU, Case Western Reserve University senior thesis, UT graduate student, June 2023–present
	■	<b>Hunter Brooks</b> , Northern Arizona University undergraduate, Jan. 2022–Feb. 2023

## Professional References

Adam Kraus	■	University of Texas at Austin; <a href="mailto:alk@astro.as.utexas.edu">alk@astro.as.utexas.edu</a>
Natalie Batalha	■	University of California Santa Cruz; <a href="mailto:natalie.batalha@ucsc.edu">natalie.batalha@ucsc.edu</a>
Dan Huber	■	University of Hawai'i/IfA/University of Sydney; <a href="mailto:huberd@hawaii.edu">huberd@hawaii.edu</a>

## **Publications (First-author = 9; \* shows a student publication.**

- 1 K. Sullivan, A. L. Kraus, T. A. Berger, and D. Huber, “Quantifying the Contamination from nearby Stellar Companions in Gaia DR3 Photometry”, *AJ* **169**, 29, 29 (2025).
- 2 M. Clark\*, K. **Sullivan**, and M. Soares-Furtado, “Moderate-separation Binary Companions May Influence Young Stellar X-Ray Luminosity”, *Research Notes of the American Astronomical Society* **8**, 318, 318 (2024).
- 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”, *MNRAS* **534**, 575–607 (2024).
- 4 E. Gaidos, C. A. Clark, and K. **Sullivan**, “The Mass–Radius Relation for Planets in Binary Systems”, *Research Notes of the American Astronomical Society* **8**, 319, 319 (2024).
- 5 K. Sullivan and A. L. Kraus, “Starspots and Undetected Binary Stars Have Distinct Signatures in Young Stellar Associations”, *ApJ* **969**, 117, 117 (2024).
- 6 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).
- 7 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).
- 8 K. Sullivan and A. L. Kraus, “Optical and Near-infrared Excesses are Correlated in T Tauri Stars”, *ApJ* **928**, 134, 134 (2022).
- 9 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).
- 10 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).
- 11 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).
- 12 K. Sullivan and A. L. Kraus, “Undetected Binary Stars Cause an Observed Mass-dependent Age Gradient in Upper Scorpius”, *ApJ* **912**, 137, 137 (2021).
- 13 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).
- 14 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).
- 15 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. Kamienieski, D. Paré, and

K. **Sullivan**, “CHANG-ES - VIII. Uncovering hidden AGN activity in radio polarization”, *MNRAS* **464**, 1333–1346 (2017).