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

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
Thesis Advisor: Prof. Adam Kraus

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
2019 — **Graduate Research Fellowship (5 years)**, National Science Foundation
2020 — **Board of Visitors Second Year Defense Award**, University of Texas at Austin
2018 — **Dean's Unrestricted Fellowship (5 years)**, University of Texas at Austin
Astronomy Dept. Recruitment Fellowship (2 summers), University of Texas at Austin

Selected Talks

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 — JPL Exoplanet Lunch Seminar (invited seminar)
Jan. 2023 — NASA ExoPAG 27 Early Career Symposium (contributed plenary)
Oct. 2022 — University of Hawai'i/IfA SPLAT (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

PI Observing Programs (continued)

- **IRTF/iSHELL - 4 half nights**, 2019B
- **KPNO/WIYN 0.9m telescope - 6 nights**, 2017/2018

Service Work

AAS Journals; A&A
- **Reviewer**, 2023 – present

NASA
- **ExoPAG SIG2 on Exoplanet Demographics**, 2023–present
- **Grant Review Panel Executive Secretary**, 2 years

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

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 Intro Astronomy Seminar developer and lead**, 2 summers

Mentored Students

UC Santa Cruz
- **M Clark**, Lamat scholar, Summer 2024
- **6 student small group**, ASTR 9, Winter/Spring 2024

UT Austin
- **Nathanael Burns-Watson**, UT REU, Case Western Reserve University senior thesis, UT graduate student, 2023–present
- **Hunter Brooks**, Northern Arizona University undergraduate, 2022–2023

Research Publications

1. K. Sullivan and A. L. Kraus, "Starspots and Undetected Binary Stars Have Distinct Signatures in Young Stellar Associations", ApJ **969**, 117, 117 (2024).
2. 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", arXiv e-prints, arXiv:2406.17648, arXiv:2406.17648 (2024).
3. 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).
4. K. Sullivan and A. L. Kraus, "Optical and Near-infrared Excesses are Correlated in T Tauri Stars", ApJ **928**, 134, 134 (2022).

5 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).

6 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).

7 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).

8 K. Sullivan and A. L. Kraus, "Undetected Binary Stars Cause an Observed Mass-dependent Age Gradient in Upper Scorpius", ApJ **912**, 137, 137 (2021).

9 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).

10 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).