

Kendall Sullivan

CONTACT INFORMATION

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kendallsullivan.github.io

EDUCATION

University of Texas at Austin, Austin, TX

PhD Candidate, Advisor: Prof. Adam Kraus

NSF Graduate Research Fellow

Advanced Certificate in Teaching Preparation

Aug. 2018 - Present

Awarded 2020

in progress

University of Massachusetts, Amherst, MA

B.S. Physics and Astronomy, Cum Laude

Commonwealth Honors College Scholar with Great Distinction

Departmental Honors in Astronomy

Aug. 2014 - Feb. 2018

Honors Thesis: *S and VV Corona Australis: Two Extreme Young Binary Systems*

Advisors: Dr. Lisa Prato (Lowell Observatory) and Prof. Suzan Edwards (Smith College)

RESEARCH INTERESTS

- Exploring the demographics of exoplanets in binary stars to understand the impacts of multiplicity on planet formation.
- Understanding the formation and evolution of planets using binary stars as a laboratory for extreme environments.
- Studying young stellar populations using synthetic surveys of star-forming regions.
- Developing computational methods to better understand the properties of planets and stars in complex systems, including binary stars and active stars.

RESEARCH POSITIONS

University of Texas at Austin

PhD student

2018 - Present

NSF Graduate Research Fellow

2020 - Present

Northern Arizona University/Lowell Observatory

Research Assistant (post-baccalaureate full-time)

Jan. 2018 - Aug. 2018

REU student

Summer 2017

Five College Astronomy Department

Five College Astronomy Department Summer Intern

Summer 2016

Research Assistant

Sep. 2015 - Dec. 2017

FELLOWSHIPS AND AWARDS

National Science Foundation

Graduate Research Fellowship

Awarded 2020

Conference Awards

Sagan Summer Workshop Travel Grant

2022

Emerging Researchers in Exoplanet Science Travel Grant

2022

University of Texas at Austin

Board of Visitors 2nd Year Defense Award

Awarded 2020

Dean's Unrestricted Fellowship

1 year; awarded 2018

Astronomy Dept. Recruitment Fellowship

2 summers; awarded 2018

University of Massachusetts, Amherst

Honors College Research Fellowship

Fall 2016

David. J. Van Blerkom Research Fellowship in Astronomy

Summer 2016

SELECTED REFEREED PUBLICATIONS

Sullivan, K. et al., *Revising Properties of Planet-host Binary Stars III. The Exoplanet Radius Valley Occurs at $1.5 R_{\oplus}$ in Binary Stars*, in prep

Sullivan, K., and Kraus, A.L., *Revising Properties of Planet-Host Binary Stars II: Apparent Near-Earth Analog Planets in Binaries Are Often Sub-Neptunes*, 2022, accepted to AJ

Sullivan, K., Kraus, A.L., and Mann, A.W., *Revising Properties of Planet-Host Binary Stars I. Methods and Pilot Study*, 2022, ApJ, 935, 141
Sullivan, K. and Kraus, A.L., *Optical and NIR Excesses Are Correlated In T Tauri Stars*, 2022, ApJ, 928, 134
Sullivan, K. and Kraus, A.L., *Undetected Binary Stars Cause an Observed Mass Dependent Age Gradient in Upper Scorpius*, 2021, ApJ, 912, 137
Nofi, L., et al. (includes K. Sullivan), *Projected Rotational Velocities and Fundamental Properties of Low-Mass Pre-Main Sequence Stars in the Taurus-Auriga Star Forming Region*, 2021, ApJ, 911, 138
Sullivan, K., Prato, L., Edwards, S., et al., *Accretion and variability in S Corona Australis and VV Corona Australis*, 2019, ApJ, 884, 28
Flagg, L., et al. (includes K. Sullivan), *CO Detected in CI Tau b: Hot Start Implied by Planet Mass and M_K* , 2019, ApJ Letters, 878, 37

TALKS AND
COLLOQUIA

University of Michigan SPF Seminar (**invited**), Fall 2022
UCLA Lunch Seminar (**invited**), Fall 2022
University of Hawaii/IfA SPLAT Seminar (**invited**), Fall 2022
5 UT Austin Stars, Planets, and ISM Seminar talks (2018-2022)
Young Binary Stars: Two Representative Systems (invited colloquium), Lowell Observatory, 2018

PI OBSERVING
EXPERIENCE

McDonald Observatory
Hobby-Eberly Telescope/LRS2-R - 55 hours 2021-2+3; 2022-2+3
NOIRLab/NOAO
Gemini South/GMOS - 2.2 hours 2021B
IRTF/iSHELL - 4 half nights 2019B
KPNO/WIYN 0.9m telescope - 5 nights 2017/2018

STUDENTS
SUPERVISED

Hunter Brooks (Northern Arizona University; co-supervised) Jan. 2022-present

TEACHING AND
OUTREACH

Sagan Summer Workshop
Hands-on session TA Summer 2022
University of Texas at Austin
TAURUS/REU Intro Astronomy Seminar lead 2 summers
Undergraduate Python Bootcamp TA 3 summers
University of Massachusetts Learning Resource Center
Peer Tutor/Tutor Peer Mentor Sept 2015 - December 2017

SERVICE AND
MENTORING

NASA
Grant review panel Executive Secretary 2 years
University of Texas at Austin
Graduate-Undergraduate Mentoring Program co-lead Fall 2021-present
TAURUS/REU weekly seminar lead organizer 2 summers
Graduate Student Assembly Representative 2021-2022
Dean's Council Representative 2021-2022
UT Undergraduate Mentor 2019-present
TAURUS Mentor 3 summers