

Kendall Sullivan

CONTACT INFORMATION

kendallsullivan@utexas.edu

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 Professor 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

Sept. 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

REFEREED PUBLICATIONS

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

Irwin, J., et al. (includes K. Sullivan), *CHANG-ES - VIII. Uncovering hidden AGN activity in radio polarization*, 2017, MNRAS, 464, 2, 1333-1346

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

Summer 2021,2022

Undergraduate Python Bootcamp TA

Summer 2019, 2021, 2022

University of Massachusetts Learning Resource Center

Peer Tutor/Tutor Peer Mentor

Sept 2015 - December 2017

Five College Astronomy Club

President

May 2017 - December 2017

Diversity coordinator

Sept 2016 - May 2017

Orchard Hill Observatory

Assistant Director

May 2017 - 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

2021, 2022

Graduate Student Assembly Representative

2021-2022

Dean's Council Representative

2021-2022

Graduate Student Departmental Reform Committee

2020-2021

UT Undergraduate Mentor

2019-present

TAURUS Mentor

2019, 2021, 2022