

Kendall Sullivan

CONTACT INFORMATION

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(781) 879-7522

EDUCATION

University of Texas at Austin, Austin, TX

Graduate Student, Advisor: Prof. Adam Kraus

Aug. 2018 - Present

NSF Graduate Research Fellow

Awarded 2020

University of Massachusetts, Amherst, MA

B.S. Physics and Astronomy, Cum Laude

Aug. 2014 - Feb. 2018

Commonwealth Honors College Scholar with Great Distinction

Departmental Honors in Astronomy

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 EXPERIENCE

University of Texas at Austin

Graduate Student, Advisor: Prof. Adam Kraus

Aug. 2018 - Present

- Designed and carried out first method for synthetically surveying young star-forming regions
- Conducted project exploring the effect of unresolved binary stars on the initial mass function of different star forming regions

Lowell Observatory

Research Assistant, Advisor: Dr. Lisa Prato

Jan. 2018 - Aug. 2018

- Developed and applied analysis codes to identify spectroscopic binaries
- Performed data reduction and analysis tasks as needed for research group members

Northern Arizona University/Lowell Observatory

REU student, Advisor: Dr. Lisa Prato

Summer 2017

- Conducted near infrared spectroscopic analysis of young binary stars
- Developed and applied analysis codes to a variety of systems, including deconvolving spectra of close binaries

Five College Astronomy Department

Observational Astronomy II (Astronomy 341) & Related Work

Jan. 2017 - May 2018

Advisor: Dr. Anne Jaskot

- Observed at Kitt Peak National Observatory WIYN 0.9m for four nights
- Reduced and analyzed data studying blue compact dwarf galaxies with HI companion clouds
- Follow-up observations taken at KPNO WIYN 0.9m for two nights in March 2018 (PI: K. Sullivan)

Five College Astronomy Department Summer Intern

Summer 2016

Research Assistant

Sept. 2015 - Jan. 2017

Advisor: Prof. Daniel Wang

- Attended week-long group meeting in Madison WI to present work
- Developed analysis pipeline for Faraday Rotation Measure Synthesis of JVL A data; resulted in co-authorship on CHANG-ES VIII

PUBLICATIONS

Sullivan, K., Prato, L., Edwards, S., et al., *Accretion and variability in S Corona Australis and VV Corona Australis*, ApJ, 2019, 884, 28

L. Flagg, et al. (includes K. Sullivan), *CO Detected in CI Tau b: Hot Start Implied by Planet Mass and M_K* , ApJ Letters, 2019, 878, 37

J. Irwin, et al. (includes K. Sullivan), *CHANG-ES - VIII. Uncovering hidden AGN*

activity in radio polarization, MNRAS, 464, 2, 1333-1346, 2017.

TALKS AND COLLOQUIA	<i>Young Binary Stars: Two Representative Systems</i> , Colloquium at Lowell Observatory July 2018	
SERVICE AND MENTORING	UT undergraduate mentor (Jan. 2019 - present) Assistant, Undergraduate Python Bootcamp, Summer 2019 TAURUS graduate mentor, Summer 2019	
FELLOWSHIPS	National Science Foundation Graduate Research Fellowship University of Texas at Austin Graduate School Recruitment Fellowship University of Massachusetts, Amherst David. J. Van Blerkom Research Fellowship in Astronomy Honors College Research Fellowship	Awarded 2020 Sept. 2018 - Aug. 2019 Summer 2020 and 2021 Summer 2016 Fall 2016
OBSERVING EXPERIENCE	Infrared Telescope Facility iSHELL - 4 half nights <ul style="list-style-type: none"> <i>Short Term Variability in Two Young Binary Star Systems</i> PI: K. Sullivan, Co-Is: L. Prato, Joe Llama Kitt Peak National Observatory WIYN 0.9m telescope - 4 nights WIYN 0.9m telescope - 2 nights <ul style="list-style-type: none"> <i>Observing a New Tail in the Blue Compact Dwarf Galaxy NGC 4861</i> PI: K. Sullivan, Co-I: Dr. Anne Jaskot, Rachel O'Connor 	Aug. 2019 Jan. 2017 Mar. 2018
FIRST AUTHOR POSTERS	<i>Veiling and Accretion Around the Young Binary Stars S and VV Corona Australis</i> , The 231st meeting of the American Astronomical Society (Jan. 2018)	
OTHER EXPERIENCE	University of Massachusetts Learning Resource Center Peer Tutor/Tutor Peer Mentor <ul style="list-style-type: none"> Led group and individual tutoring sessions Provided additional support for new tutors and evaluated peers as a tutor peer mentor (Sept. 2016 - Dec. 2018) Five College Astronomy Club President Diversity coordinator <ul style="list-style-type: none"> Served as liaison between Astronomy majors and the Astronomy Department Served as a resource for students looking do research within the department or find internships and REUs Participated in mentoring program in 2016 - 2017 school year Orchard Hill Observatory Assistant Director <ul style="list-style-type: none"> Helped open, manage, and run weekly public nights at 16-inch telescope on campus, attended by students and members of the public Organized and planned private events for clubs, dorm residents, and members of the community (Boy Scout troops, etc). 	Sept 2015 - December 2017 May 2017 - December 2017 Sept 2016 - May 2017