

Kendall Sullivan

CONTACT INFORMATION

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EDUCATION

University of Texas at Austin, Austin TX

Ph.D. student, Astronomy
Advisor: Prof. Adam Kraus

University of Massachusetts, Amherst, MA

B.S. Physics and Astronomy, February 2018, Cum Laude
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)
GPA: 3.76, Dean's List 6 of 7 semesters

RESEARCH EXPERIENCE

Lowell Observatory

Research Assistant, Advisor: Dr. Lisa Prato Jan 2018 - August 2018

- Conducted near infrared spectroscopic analysis of young binary stars
- Developed and applied analysis codes to a variety of systems, including finding and confirming spectroscopic binaries
- Assisted with data reduction and other tasks as needed

Northern Arizona University/Lowell Observatory

REU student, Advisor: Dr. Lisa Prato June 2017 - August 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
- Worked within larger team on a young binary stars database

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

June 2016 - August 2016

Advisor: Prof. Daniel Wang

- Worked full-time continuing research from the school year
- Attended week-long group meeting in Madison WI to present work

Research Assistant, Advisor: Prof. Daniel Wang

Sept. 2015 - Jan. 2017

- Developed analysis pipeline for Faraday Rotation Measure Synthesis of JVLA data
- Worked individually and in a research group to develop and check analysis techniques
- Work on RM-synthesis of edge-on spiral galaxies lead to co-authorship on CHANGES VIII

OBSERVING EXPERIENCE AND SUCCESSFUL PROPOSALS	Infrared Telescope Facility	August 2019
	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	January 2017
	WIYN 0.9m telescope - 4 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 	March 2018
OTHER EXPERIENCE	University of Massachusetts Learning Resource Center	Sept 2015 - December 2017
	Peer Tutor/Tutor Peer Mentor <ul style="list-style-type: none"> • Peer tutor for math, physics, and astronomy • 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	May 2017 - December 2017
	President <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 • Established Diversity Coordinator position to create focus on inclusion in Astronomy 	Sept 2016 - May 2017
	Orchard Hill Observatory	May 2017 - December 2017
	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). • Managed repairs and cleaning for telescope 	
PUBLICATIONS	<ul style="list-style-type: none"> • Sullivan, K., Prato, L., Edwards, S., et al., <i>Accretion and variability in S Corona Australis and VV Corona Australis</i>, APJ, 2019 • L. Flagg, et al. (includes K. Sullivan), <i>CO Detected in CI Tau b: Hot Start Implied by Planet Mass and M_K</i>, APJ Letters, 2019 • J. Irwin, et al. (includes K. Sullivan), <i>CHANG-ES - VIII. Uncovering hidden AGN activity in radio polarization</i>, MNRAS, 464, 2, 1333-1346, 2017. 	
TALKS AND COLLOQUIA	<i>Young Binary Stars: Two Representative Systems</i> , Colloquium at Lowell Observatory July 2018 <i>Observing Young Binary Stars</i> , Talk to Austin Astronomical Society April 2019	
PROGRAMMING LANGUAGES	Proficient: Python, IDL Familiar: Java, MATLAB, HTML, IRAF	
SERVICE AND MENTORING	Undergraduate mentor (Jan. 2019 - present) Assistant, Undergraduate Python Bootcamp, Summer 2019	

FELLOWSHIPS AND SCHOLARSHIPS	University of Texas at Austin	
	Graduate School Fellowship	Sept. 2018 - Sept. 2019
	Graduate School Fellowship	Jun - Aug., 2020 and 2021
	University of Massachusetts, Amherst	
	David. J. Van Blerkom Research Fellowship in Astronomy	June 2016
	Honors College Research Fellowship	Sept. 2016 - Dec. 2016
FIRST AUTHOR	<i>Veiling and Accretion Around the Young Binary Stars S and VV Corona Australis,</i>	
POSTERS	The 231st meeting of the American Astronomical Society (January 2018)	