

# SAKHEE BHURE

SAKHEE.BHURE@USQ.EDU.AU | SAKHEE.SPACE

## EDUCATION

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### UNIVERSITY OF SOUTHERN QUEENSLAND

PHD ASTROPHYSICS

JUL 2023 - PRESENT

### FLORIDA INSTITUTE OF TECHNOLOGY

BS ASTRONOMY AND ASTROPHYSICS

AUG 2014 - MAY 2017

## RESEARCH

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### Follow-up and Confirmation of Shallow Transits observed by *TESS* using *MINERVA-Australis*

DR. R. WITTENMYER, DR. D. WRIGHT CENTER FOR ASTROPHYSICS, UNISQ

JUL 2023 - PRESENT

### Statistical Validation of Exoplanet Candidates from the *K2* Mission Detected via a Fully Automated Pipeline

DR J. CHRISTIANSEN <CHRISTIA@IPAC.CALTECH.EDU> CALTECH/IPAC-NExSci

SEP 2020 - PRESENT

### OBSERVING EXPERIENCE

MINERVA-AUSTRALIS PI: Sakhee Bhure

15+ NIGHTS

PALOMAR PHARO PI: Dr. J. Christiansen

1 NIGHT

SOAR GOODMAN SPECTROGRAPH PI: Dr. K. Hardegree-Ullman

1 NIGHT

## PUBLICATIONS [ADS list](#) [ORCiD](#)

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[SCALING K2. VII.](#) EVIDENCE FOR A HIGH OCCURRENCE RATE OF HOT SUB-NEPTUNES AT INTERMEDIATE AGES. The Astronomical Journal, 166. Christiansen, J. L., Zink, J. K., Hardegree-Ullman, K. K., Fernandes, R. B., Hopkins, P. F., Rebull, L. M., Boley, K. M., Bergsten, G. J., **Bhure, S.**, et al. (2023)

[SCALING K2. VI.](#) REDUCED SMALL PLANET OCCURRENCE IN HIGH GALACTIC AMPLITUDE STARS. The Astronomical Journal, 165. Zink, J. K., Hardegree-Ullman, K. K., Christiansen, J. L., Petigura, E. A., Boley, K. M., **Bhure, S.**, et al. (2023)

[SCALING K2. V.](#) STATISTICAL VALIDATION OF 60 NEW EXOPLANETS FROM *K2* CAMPAIGNS 2–18. The Astronomical Journal, 163. Christiansen, J. L., **Bhure S.**, Zink, J. K., Hardegree-Ullman, K. K. et al. (2022)

[SCALING K2. IV.](#) A UNIFORM PLANET SAMPLE FOR CAMPAIGNS 1–8 AND 10–18. The Astronomical Journal, 162. Zink, J.K., Hardegree-Ullman, K.K., Christiansen, J.L., **Bhure, S.**, Adkins, B.D., Petigura, E.A., Dressing, C.D., Crossfield, I.J., & Schlieder, J.E. (2021)

## TEACHING

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### INSTRUCTOR

#### EDUCATION INITIATIVES, INDIA

APR 2019 - JUL 2019

*SHOOTING FOR THE STARS: ASTRONOMY AND ASTROPHYSICS (grades 6-10, 22 students)*

### GRADUATE TEACHING ASSISTANT

DEPARTMENT OF PHYSICS AND SPACE SCIENCES, FLORIDA INSTITUTE OF TECHNOLOGY

AUG - DEC 2017

*PHY 2091: PHYSICS LABORATORY I (MECHANICS) (43 STUDENTS)*

### VOLUNTEER EDUCATOR

[AKANKSHA FOUNDATION](#), PUNE (60 STUDENTS)

JUL 2019 - MAR 2020

## WORK

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### SCIENCE WRITER (FREELANCE)

[OFFICE FOR CLIMATE EDUCATION](#) SORBONNE UNIVERSITÉ - INSTITUT PIERRE SIMON LAPLACE

APR 2022 - MAY 2022

[THE WIRE, INDIA](#)

JUN 2019 - FEB 2020

### SCIENCE WRITER (FULL-TIME)

INTERN [SCIENCE ACTIVITY CENTER \(SAC\)](#) Indian Institute for Science Education and Research (IISER), Pune

FEB 2020 - JUL 2021

Science Writing, Pedagogy and Curriculum Development

### SCIENCE WRITER (FREELANCE)

FLORIDA INSTITUTE OF TECHNOLOGY

**RESIDENT ASSISTANT** DEPARTMENT OF RESIDENCE LIFE

AUG 2015 - MAY 2018

**RESIDENT ASSISTANT OF THE YEAR AWARD**

2017-2018

PLEASE CONTINUE...

## CONFERENCES AND WORKSHOPS

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<b>TESS SCIENCE CONFERENCE 3</b>	JUL-AUG 2024
Poster: PRECISION PHOTOMETRIC FOLLOW-UP OF HIGH-VALUE SOUTHERN HEMISPHERE TESS TARGETS WITH MINERVA-AUSTRALIS	
<b>EXOPLANETS 5</b>	JUN 2024
Poster: PRECISION PHOTOMETRIC FOLLOW-UP OF HIGH-VALUE TESS TARGETS WITH MINERVA-AUSTRALIS	
<b>AUSTRALIAN EXOPLANETS WORKSHOP 2023</b>	SEP 2023
Oral Presentation: MINERVA-AUSTRALIS PRECISION PHOTOMETRIC FOLLOW-UP OF HIGH-VALUE TESS TARGETS	
<b>AAS 238</b> 238 <sup>th</sup> Meeting of the American Astronomical Society	JUN 2021
Oral Presentation: SCALING K2: VALIDATING KEPLER/K2 CANDIDATES USING VESPA	
Press Presentation: <b>EXOPLANETS AND BROWN DWARFS II</b> : SCALING K2: VALIDATING KEPLER/K2 CANDIDATES USING VESPA	
49 <sup>th</sup> Meeting of the Division of Planetary Sciences ( <b>DPS 49</b> ) Provo, Utah	OCT 2017
Poster: STUDIES OF DARK SPOTS AND THEIR COMPANION CLOUDS ON THE ICE GIANT PLANETS	
48 <sup>th</sup> Meeting of the Division of Planetary Sciences ( <b>DPS 48</b> ) Pasadena	OCT 2016
Oral Presentation: INVESTIGATING NORMALIZED ARCHITECTURES OF MULTI-TRANSITING EXOPLANETARY SYSTEMS	

## PREVIOUS RESEARCH

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<a href="#">DR. D. RAGOZZINE</a> BRIGHAM YOUNG UNIVERSITY < <a href="mailto:DARIN_RAGOZZINE@BYU.EDU">DARIN_RAGOZZINE@BYU.EDU</a> >	MAR - MAY 2020
Photodynamical Modeling Project	
DEPARTMENT OF PHYSICS AND SPACE SCIENCES, FLORIDA INSTITUTE OF TECHNOLOGY	
<a href="#">DR. Cs. PALOTAI</a> < <a href="mailto:CPALOTAI@FIT.EDU">CPALOTAI@FIT.EDU</a> >	AUG - DEC 2017
Simulations of the Great White Spot on Neptune using the EPIC Model	
<a href="#">DR. D. RAGOZZINE</a> < <a href="mailto:DARIN_RAGOZZINE@BYU.EDU">DARIN_RAGOZZINE@BYU.EDU</a> >	MAR 2015 - AUG 2018
Understanding Architectures of Exoplanet Systems with Normalized Planet Radii and Orbital Periods	
<a href="#">DR. C. NEISH</a> < <a href="mailto:CNEISH@UWO.CA">CNEISH@UWO.CA</a> >	AUG 2014 - MAY 2015
Processing of S- and P-band Radar Images obtained by the Lunar Reconnaissance Orbiter	
NATIONAL CENTER FOR RADIO ASTROPHYSICS (NCRA), INDIA	
<a href="#">VISITING STUDENT RESEARCH PROGRAM</a>	MAY - JUN 2016

## PUBLIC OUTREACH AND AMBASSADOR ACTIVITIES

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<b>UNITED STATES INDIA EDUCATION FOUNDATION (USIEF)</b> , EDUCATIONUSA, MUMBAI	2015, 2016, 2017, 2019, 2023
PANELIST: Pre-Departure Orientation	
<b>US Visa Day, US CONSULATE, MUMBAI</b>	JUN 2016
PANELIST: Press Interaction, STUDENT REPRESENTATIVE: Student Visa Day	
<b>227<sup>TH</sup> MEETING OF THE AMERICAN ASTRONOMICAL SOCIETY</b> , KISSIMMEE, FLORIDA	JAN 2016
VOLUNTEER	
FLORIDA INSTITUTE OF TECHNOLOGY	
<b>SOCIETY OF PHYSICS STUDENTS (SPS)</b> , MEMBER	FALL 2014 - SPRING 2017
<b>STUDENT ASTRONOMICAL SOCIETY (SAS)</b> , MEMBER	FALL 2014 - SPRING 2017
<b>STUDENT ASTRONOMICAL SOCIETY</b> SECRETARY	OCTOBER 2014 - MARCH 2015
<b>RESIDENCE HALL ASSOCIATION</b> ROBERTS HALL	SEP 2014 - MAY 2015

## AWARDS

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DEAN'S LIST	EVERY SEMESTER FROM FALL 2014 - SPRING 2017
OUTSTANDING JUNIOR OF THE YEAR IN PHYSICS AND SPACE SCIENCES	2015-2016
DISTINGUISHED STUDENT SCHOLAR	2015-2016
OUTSTANDING SOPHOMORE OF THE YEAR IN PHYSICS AND SPACE SCIENCES	2014-2015