

# SAKHEE BHURE

SBHURE2013@MY.FIT.EDU | SAKHEE.SPACE | @SAKHEEBHURE

## FLORIDA INSTITUTE OF TECHNOLOGY

BS ASTRONOMY AND ASTROPHYSICS *magna cum laude*

AUGUST 2014 - MAY 2017

## RESEARCH

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

OCT 2020 - PRESENT

Statistical Validation of Exoplanet Candidates from the K2 Mission Detected by the EDI-Vetter pipeline

DR. D. RAGOZZINE BRIGHAM YOUNG UNIVERSITY <DARIN\_RAGOZZINE@BYU.EDU>

MARCH - AUGUST 2020

Photodynamical Modeling Project

## DEPARTMENT OF PHYSICS AND SPACE SCIENCES, FLORIDA INSTITUTE OF TECHNOLOGY

DR. CS. PALOTAI <CPALOTAI@FIT.EDU>

AUGUST - DECEMBER 2017

Simulations of the Great White Spot on Neptune using the EPIC Model

DR. D. RAGOZZINE <DARIN\_RAGOZZINE@BYU.EDU>

MARCH 2015 - AUGUST 2018

Understanding Architectures of Exoplanet Systems with Normalized Planet Radii and Orbital Periods

DR. C. NEISH <CNEISH@UWO.CA>

AUGUST 2014 - MAY 2015

Processing of S- and P-band Radar Images obtained by the Lunar Reconnaissance Orbiter

## INTERNSHIP NATIONAL CENTER FOR RADIO ASTROPHYSICS (NCRA), INDIA

MAY - JUNE 2016

Searching for redshifted H21cm Absorption by Measuring the Spin Temperatures of two Damped Lyman- $\alpha$  Absorbers using GMRT data

**COMPUTATIONAL SKILLS** Python (3 years), Julia (2 years), C++ (1 year), and LaTeX (6 years)

## OBSERVING EXPERIENCE

Palomar PHARO

1 NIGHT

SOAR Goodman Spectrograph

1 NIGHT

## PUBLICATIONS [ADS](#) [ORCID](#)

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

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). [SCALING K2. IV. A UNIFORM PLANET SAMPLE FOR CAMPAIGNS 1–8 AND 10–18](#). The Astronomical Journal, 162.

## CONFERENCES AND WORKSHOPS

**AAS 238** 238<sup>th</sup> Meeting of the American Astronomical Society

JUNE 2021

Oral Presentation: SCALING K2: VALIDATING KEPLER/K2 CANDIDATES USING VESPA

Press Presentation: [EXOPLANETS AND BROWN DWARFS II](#): SCALING K2: VALIDATING KEPLER/K2 CANDIDATES USING VESPA

49<sup>th</sup> Meeting of the Division of Planetary Sciences (**DPS 49**), Provo, Utah

OCTOBER 2017

**Poster Presentation:** STUDIES OF DARK SPOTS AND THEIR COMPANION CLOUDS ON THE ICE GIANT PLANETS

48<sup>th</sup> Meeting of the Division of Planetary Sciences (**DPS 48**), Pasadena, California

OCTOBER 2016

**Oral Presentation:** INVESTIGATING NORMALIZED ARCHITECTURES OF MULTI-TRANSITING EXOPLANETARY SYSTEMS

National Radio Astronomy Observatory (**NRAO**) **COMMUNITY DAY WORKSHOP**

MARCH 2015

FLORIDA INSTITUTE OF TECHNOLOGY

**CUWIP 2015** American Physical Society's 10<sup>th</sup> Annual Conference for Undergraduate Women in Physics

JANUARY 2015

UNIVERSITY OF MISSISSIPPI

## TEACHING

### INSTRUCTOR

[EDUCATION INITIATIVES, INDIA](#)

DECEMBER 2018 - JUNE 2019

developed and taught a three-week, hands-on Astronomy course to grade 6–10 students

### GRADUATE TEACHING ASSISTANT

DEPARTMENT OF PHYSICS AND SPACE SCIENCES, FLORIDA INSTITUTE OF TECHNOLOGY

AUGUST - DECEMBER 2017

taught two sections of PHY 2091: Physics Laboratory I (Mechanics)

### TEACHING (VOLUNTEER WORK)

**VOLUNTEER EDUCATOR** [AKANKSHA FOUNDATION](#), PUNE

JULY 2019 - MARCH 2020

assisted with differentiated learning in grade 8 science and mathematics courses and developed community-building and waste-management projects at the PUJYA KASTURBA GANDHI ENGLISH MEDIUM SCHOOL, PUNE

## AWARDS

### 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

## WORK

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<b>INTERN</b> <b>SCIENCE ACTIVITY CENTER (SAC)</b> INDIAN INSTITUTE FOR SCIENCE EDUCATION AND RESEARCH (IISER), PUNE	FEB 2020 - JULY 2021
Science Writing, Pedagogy and Curriculum Development	
<b>SCIENCE WRITER (FREELANCE)</b> <b>THE WIRE, INDIA</b>	JUNE 2019 - PRESENT
<b>FLORIDA INSTITUTE OF TECHNOLOGY</b>	
<b>RESIDENT ASSISTANT</b> DEPARTMENT OF RESIDENCE LIFE	AUGUST 2015 - MAY 2018
peer leader in the on-campus residence halls at Florida Institute of Technology. awarded the <b>RESIDENT ASSISTANT OF THE YEAR AWARD</b> for the year 2017-2018	
<b>STUDENT BLOGGER</b> OFFICE OF MARKETING & COMMUNICATIONS	AUGUST 2015 - DECEMBER 2016

## PUBLIC OUTREACH AND AMBASSADOR ACTIVITIES

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<b>UNITED STATES INDIA EDUCATION FOUNDATION (USIEF)</b> , EDUCATIONUSA, MUMBAI	SUMMER 2015, 2016, 2017, 2019
Panelist: Pre-Departure Orientation	
<b>US VISA DAY, US CONSULATE, MUMBAI</b>	JUNE 9, 2016
Panelist at press interaction and Student Representative for Student Visa Day	
<b>227<sup>TH</sup> MEETING OF THE AMERICAN ASTRONOMICAL SOCIETY</b> , KISSIMMEE, FLORIDA	JANUARY 2016
VOLUNTEER	
<b>FLORIDA INSTITUTE OF TECHNOLOGY</b>	
<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

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LAST UPDATED: MARCH 2022