

SHIVANI P. SHAH

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EDUCATION

University of Florida
Ph.D., Astronomy

May 2020 –

University of Florida
M.S., Astronomy
GPA: 4.00/4.00

August 2018 – May 2020

The Pennsylvania State University
B.S., Astronomy & Astrophysics
GPA: 3.58/4.00

August 2014 – May 2018

PUBLICATIONS

"The R-Process Alliance: Near-UV and Optical Spectroscopy of 2MASSJ00512646-1053170 for R-process Elements."

Shah, Shivani P., Ezzeddine, Rana, Roederer, Ian U., Hansen, Terese, Hackshaw and the RPA collaboration. 2023.

In Prep.

"Uranium Abundances and Ages of R-Process Enhanced Stars Using Novel U II Lines"

Shah, Shivani P., Ezzeddine, Rana, Ji, Alexander P., Hansen, Terese, Catelan, Marcio, Roederer, Ian U., Hackshaw, Zoe, Beers, Timothy C., and Surman, Rebecca. 2022. *Submitted to ApJ.*

"HD 4915: A Maunder Minimum Candidate"

Shah, Shivani P., Wright, Jason T., Isaacson, Howard, Howard, Andrew W., & Curtis, Jason L. 2018. *ApJ*, 863, 2

<https://doi.org/10.3847/2041-8213/aad40c>

TALKS

Annual Graduate Student Symposium

October 2022

The Ages and R-Process Enrichment of Population II Stars

University of Florida

JINA-CEE Frontiers in Nuclear Astrophysics Conference

May 2022

Overview of Heavy Element Observations

University of Notre Dame

Annual Graduate Student Symposium

September 2019

H₀ in the Era of LIGO

University of Florida

Penn State Lunch Talk Series

September 2017

HD 4915: A Maunder Minimum Candidate

PSU, University Park

POSTER PRESENTATIONS

JINA-CEE Frontiers in Nuclear Astrophysics Conference <i>Actinide Abundances Using Novel Uranium Lines</i>	May 2022 <i>University of Notre Dame</i>
Fall Undergraduate Poster Exhibition <i>HD 4915: A Maunder Minimum Candidate</i>	October 2017 <i>PSU, University Park</i>
231st AAS Poster Presentation [id. 349.11] <i>Grand Magnetic Minimum Candidate</i>	January 2018 <i>Washington D.C.</i>
EURECA Symposium <i>Population III White Dwarfs</i>	April 2015 <i>PSU, Brandywine</i>

AWARDS

PI: HIRES/Keck <i>New U lines for Nucleocosmochronometry</i>	Spring 2021 <i>4 hrs</i>
Co-I: HoRuS/Grand Telescopio Canarias <i>Characterizing r-process nucleosynthesis of enhanced r-process stars</i>	Fall 2020 <i>20 hrs</i>

TRAINING

Stellar Modelling for Nuclear Astrophysics <i>JINA-CEE Summer School</i>	June 1-4 2022 <i>Louisiana State University</i>
FRIB-TA Summer School: Dense matter in Astrophysics <i>30th June - 2nd July 2020</i>	<i>Online</i>
ChETEC Zagreb Nucleosynthesis Software pipeline Training <i>31st Aug-2nd Sep 2020</i>	<i>Online</i>

TECHNICAL SKILLS

Python, IDL, C, C++, \LaTeX , Linux, MATLAB, PyRAF

SERVICE

Organizing Committee <i>JINA-CEE 2022 Frontiers in Nuclear Astrophysics</i>	2021-2022 <i>University of Notre Dame</i>
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OUTREACH

Volunteer <i>Public Observing Nights</i>	Fall 2022 <i>University of Florida</i>
Volunteer <i>UF Starry Night</i>	November 2019 <i>University of Florida</i>

Volunteer
Penn State AstroFest

July 2016
PSU, University Park

Co-founder
Astronomy Club

2014
PSU, Brandywine