

SHIVANI P. SHAH

shivani.shah@ufl.edu — [Website](#) — [ADS Library](#)

EDUCATION

University of Florida May 2020 –
Ph.D., Astronomy

University of Florida August 2018 – May 2020
M.S., Astronomy
GPA: 4.00/4.00

The Pennsylvania State University August 2014 – May 2018
B.S., Astronomy & Astrophysics
GPA: 3.58/4.00

PUBLICATIONS

“The R-Process Alliance: Near-UV and Optical Spectroscopy of 2MASSJ0051-1053 for R-Process Elements.”

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

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

Shah, Shivani P., Ezzeddine, Rana, Ji, Alexander P., Hansen, Terese T., Catelan, Márcio, Roederer, Ian U., Hackshaw, Zoe, Holmbeck, Erika M., Beers, Timothy C., and Surman, Rebecca. 2023.

In Press for ApJ. <https://doi.org/10.48550/arXiv.2301.11945>

“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>

AWARDS

PI: HIRES/Keck Spring 2021
New U lines for Nucleocosmochronometry 4 hrs

PI: HoRuS/Grand Telescopio CANARIAS Spring 2021
Age Estimate of an r-process Enhanced Star using Nucleocosmochronometry 2 hrs

(Not executed since the instrument had to be decommissioned.)

Co-I: HoRuS/Grand Telescopio CANARIAS
Characterizing r-process nucleosynthesis of enhanced r-process stars

Fall 2020
20 hrs

TALKS

Annual Graduate Student Symposium <i>The Ages and R-Process Enrichment of Population II Stars</i>	October 2022 University of Florida
JINA-CEE Frontiers in Nuclear Astrophysics Conference <i>Overview of Heavy Element Observations</i>	May 2022 University of Notre Dame
Annual Graduate Student Symposium <i>H₀ in the Era of LIGO</i>	September 2019 University of Florida
Penn State Lunch Talk Series <i>HD 4915: A Maunder Minimum Candidate</i>	September 2017 PSU, University Park

SERVICE

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

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

TRAINING

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

TECHNICAL SKILLS

Python, IDL, C, C++, L^AT_EX, Linux, PyRAF

OUTREACH

Volunteer Spring 2023
NSF Broader Impacts: Spectroscopy and the Origin of Elements University of Florida

Volunteer Fall 2022
Public Observing Nights University of Florida

Volunteer November 2019
UF Starry Night University of Florida

Volunteer July 2016
Penn State AstroFest PSU, University Park

Co-founder 2014
Astronomy Club PSU, Brandywine