SHIVANI P. SHAH

shivani.shah@ufl.edu — Website — ADS Library

EDUCATION

University of Florida

May 2020 - Present

Ph.D., Astronomy Thesis Title: TBD

Advised by: Prof. Rana Ezzeddine

University of Florida

August 2018 - May 2020

M.S., Astronomy

Thesis Title: Methods to Robustly Constrain Standard Siren H0 Measurement

Advised by: Prof. Paul Torrey

The Pennsylvania State University

August 2014 – May 2018

B.S., Astronomy & Astrophysics

FIRST-AUTHOR PUBLICATIONS

- **4. Shah, S. P.**, Ezzeddine, R. 2024. The R-Process Alliance: Actinide Mass Fraction of R-Process Enhanced Stars. In prep.
- 3. Shah, S. P., Ezzeddine, R., Roederer, I. U., Hansen, T. T., et al. 2024. The R-Process Alliance: detailed chemical composition of an r-process enhanced star with UV and optical spectroscopy MNRAS, 529, 1917. https://doi.org/10.1093/mnras/stae255
- 2. Shah, S. P., Ezzeddine, R., Ji, A. P., Hansen, T. T., Catelan, M., Roederer, I. U., et al. 2023. Uranium Abundances and Ages of R-Process Enhanced Stars Using Novel U II Lines. ApJ, 948, 2. https://doi.org/10.3847/1538-4357/acb8af
- Shah, S. P., Wright, J. T., Isaacson, H., Howard, A. W., & Curtis, J. L. 2018. HD 4915: A Maunder Minimum Candidate. ApJL, 863, 2. https://doi.org/10.3847/2041-8213/aad40c

CONTRIBUTING-AUTHOR PUBLICATIONS

Bandyopadhyay, A., Ezzeddine, R., Prieto, C. A., Aria, N. **Shah, S.P.**, et al. *The R-Process Alliance:* An Abundance Study of Faint Metal-Poor Stars observed by the GTC. To be submitted to ApJ 05/05/2024.

Ji, A. P., Curtis, S., Storm, N., [...] **Shah, S.P.** et al. 2024. Spectacular Nucleosynthesis from Early Massive Stars. ApJL, 962, 2.

https://doi.org/10.3847/2041-8213/ad19c4

AWARDS & HONORS

CLAS Dissertation Fellowship College of Liberal Arts and Sciences, UF	Summer 2024 \$8000
Travel Grants College of Liberal Arts and Sciences & Astronomy Department, UF	2023 - 2024 \$2000
Symposium Award Astronomy Department, UF	Fall 2023 \$200
Dean's List The Pennyslvania State University	5 semesters
Cooper's Honor Program Penn State, Brandywine	Fall 2014
DBSERVING AWARDS	
PI: HIRES/Keck New U lines for Nucleocosmochronometry	Spring 2021 4 hrs
PI: HoRuS/Grand Telescopio CANARIAS Age Estimate of an r-process Enhanced Star using Nucleocosmochronometry	Spring 2021 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
NVITED TALKS	
Lunch Seminar Heavy Element Signatures in Metal-Poor Stars	Spring 2024 Carnegie Observatories
Simple Words Seminar Radioactive-Dating of Stars	November 2023 Math Department, UF
CONTRIBUTED TALKS	
SDSS-V Collaboration Meeting Halo Stars as Probes of Heavy Element Enrichment	August 2023 Flatiron Institute
CeNAM Frontiers Meeting U Abundances and Ages of R-Process Enhanced Stars	May 2023 Michigan State University
Annual Graduate Student Symposium The Ages and R-Process Enrichment of Population II Stars	October 2022 University of Florida
JINA-CEE Frontiers in Nuclear Astrophysics Conference Overview of Heavy Element Observations	May 2022 University of Notre Dame
Annual Graduate Student Symposium H_0 in the Era of LIGO	September 2019 University of Florida
Penn State Lunch Talk Series HD 4915: A Maunder Minimum Candidate	September 2017 PSU, University Park

Penn State AstroFest

Co-founder

Astronomy Club

POSTER PRESENTATIONS JINA-CEE Frontiers in Nuclear Astrophysics Conference May 2022 Actinide Abundances Using Novel Uranium Lines University of Notre Dame Fall Undergraduate Poster Exhibition October 2017 HD 4915: A Maunder Minimum Candidate PSU, University Park 231st AAS Poster Presentation [id. 349.11] January 2018 Washington D.C. Grand Magnetic Minimum Candiate **EURECA Symposium** April 2015PSU, Brandywine Population III White Dwarfs **TEACHING** 2018-2019 Teacher's Assistant AST 1002 University of Florida Teacher's Assistant 2021 Spring AST 1022L Course Revamp University of Florida ACADEMIC ADVISING 2022-present Isabella Macias Li-Enhanced Stars $Undergraduate\ Student\ at\ UF$ Natalia Wollschlaeger 2022 Highly R-Process Enhanced Star, J1453+0040 $Undergraduate\ Student\ at\ UF$ **SERVICE** Mentor 2024-University of Florida Women in Astronomy Mentorship Program Organizing Committee 2021-2022 JINA-CEE 2022 Frontiers in Nuclear Astrophysics University of Notre Dame Vice-President 2018-2019 Graduate Astronomy Organization University of Florida **OUTREACH** Spring 2023 University of Florida NSF Broader Impacts: Spectroscopy and the Origin of Elements Volunteer Fall 2022 Public Observing Nights University of Florida November 2019 Volunteer UF Starry Night University of Florida Volunteer November 2018 Girls Do Science Florida of Natural History Museum Volunteer July 2016

PSU, University Park

PSU, Brandywine

2014