SHIVANI SHAH

shiyani.shah@ufl.edu

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

"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

RESEARCH EXPRERIENCE

Graduate Researcher

June 2020 -

Advisor: Prof. Rana Ezzeddine

University of Florida

- · Analyzing a metal-poor star in the optical and near-UV band to obtain a complete inventory of rapid neutron capture process elemental abundances
- · Using the abundance pattern to constrain theoretical models for the production of heavy elements

Graduate Researcher

August 2018 –

Advisors: Profs. Paul Torrey, Steve Eikenberry, Anthony Gonzalez

University of Florida

- · Generated and analyzed a suite of constrained cosmological simulations, ARCID
- · Used ARCID to investigate systematic errors in the first standard siren Hubble constant measurement obtained using GW170817

· Analyzed the magnetic behaviour of HD 4915, a Sun-like star showcasing grand magnetic minimum-like

Undergraduate Researcher

January 2016 – May 2018

PSU, University Park

Advisor: Prof. Jason Wright

- behavior
- · Developed scripts and a GUI to expedite the curation of exoplanets.org
- · Investigated the relationship between radial velocity and magnetic activity of Sun-like stars

Undergraduate Researcher

January - May 2016

Advisor: Prof. Timothy Lawlor

PSU, Brandywine

- · Employed BRAHMA, a FORTRAN code to model the evolution of POP III stars from main-sequence stage to white-dwarf stage
- · Analyzed the relationship between the initial and final stellar parameters of the modeled POP III stars

PRESENTATIONS

Annual Graduate Student Symposium H_0 in the Era of LIGO	September 2019 University of Florida
231st AAS Poster Presentation [id. 349.11] Grand Magnetic Minimum Candiate	January 2018 Washington D.C.
Fall Undergraduate Poster Exhibition HD 4915: A Maunder Minimum Candidate	October 2017 PSU, University Park
Penn State Lunch Talk Series HD 4915: A Maunder Minimum Candidate	September 2017 PSU, University Park
EURECA Symposium Population III White Dwarfs	April 2015 PSU, Brandywine

TECHNICAL SKILLS

Python, IDL, C, C++, $\mbox{\sc label{eq:condition}{PyRAF}}$

OUTREACH

OUTREACH	
Volunteer	November 2019
UF Starry Night	University of Florida
Volunteer	July 2016
Penn State AstroFest	PSU, University Park
Co-founder	2014
Astronomy Club	$PSU, \ Brandywine$