

Shah Ali Haider Shanto

631-202-9863 | shahalihaidershanto@stonybrook.edu | <https://stargazer0098.github.io/#>

EDUCATION - GPA 3.65

Stony Brook University

Stony Brook, NY

Bachelor of Science in Physics

August 2018 - Present

Bachelor of Science in Astronomy and Planetary Sciences

August 2018 -Present

RESEARCH EXPERIENCE

Undergraduate Research

Summer 2021

Stony Brook University, Dr. Jin Koda

- Studied simulation data of Galaxy M83 and compared with CO emissions.
- Used python and DS9 to find the pattern speed of the galaxy.
- Plotted density and velocity graphs using stellar and gas simulation data.
- Determined pattern speed of the galaxy using Tremaine Weinberg method.

Senior Tutorial In Astronomy

Spring 2020

Stony Brook University, Dr. Alan Calder

- Tutorial on graduate level astrophysics. Focus on current research papers. Topics Included thermonuclear supernovae, x-ray burst, gamma ray bursts, binary system of blackholes and neutron stars.

RELEVANT COURSEWORK

COSMOLOGY	FALL 2021
GALAXIES	SPRING 2021
QUANTUM PHYSICS	SPRING 2021
THERMODYNAMICS	SPRING 2021
STARS AND RADIATION	FALL 2020

TECHNICAL SKILLS

Languages: Python/Jupyter, Fortran, C/C++, Matlab, Mathematica, Html5, CSS, Javascript

Libraries: NumPy, Matplotlib, pandas, Astropy, Scipy, Statistics

Software Skills: DS9, SkyChart, iObserve, Adobe Photoshop, Adobe Illustrator, Microsoft Office, Pages, Numbers, Keynote, Procreate, Logic Pro X, iMovie.

Operating Systems: MacOS, Windows, LINUX

WORK EXPERIENCE

Physics Lab Assistant

August 2020-Present

Physics Department, Stony Brook University

- Set-up and dismantle lab equipment for freshman, sophomore and junior physics labs.
- Distribute extra equipment to graduate teaching assistants and help them with any extra information regarding the experiment or equipment.
- Sort lab equipment and report broken apparatus.
- Fix broken/faulty equipment

Social Media Intern

August 2020-December 2020

Stony Brook University

- Make posters and illustrations for the official Stony Brook University Instagram account.
- Research on latest Social Media additions such as Twitter Fleets, Instagram Reels and Tiktok FYP, etc
- Attend events around campus and take photos to post on social media.

Business Intern

Summer 2019

Ultra Washing and Dyeing Ltd

- Co-manage around 200 employees in a washing and dyeing industry.
- Make a website for the industry
- Sort an algorithm to maximise profit from minimal resources.

LEADERSHIP ROLES AND ACTIVITIES

Photojournalism

March 2020- present

SBU STATESMEN

- Attend weekly meetings and take a pitch for that week
- Go to events/locations around campus for certain pitches and take photographs
- One of my most prestigious photographs can be found in this article:
<https://www.sbstatesman.com/2021/04/06/students-can-schedule-appointment-for-johnson-johnson-covid-19-vaccine/>

Undergraduate Student Member

March 2020-March 2021

American Astronomical Society

Astronomy Club - General Member

August 2018-Present

Stony Brook University

Society Of Physics Students -Member

August 2018- Present

Stony Brook University

OTHER INFORMATION

LinkedIn : <https://www.linkedin.com/in/shah-ali-haider-shanto-6892a6203/>