# **Asad Arshad**

Astrophysicist & Programmer

#### **About me**

An inquisitive, ambitious and creative student, with a passion of learning, always seeking new ways to understand the cosmos, while experiencing and enjoying the world of science, research and technology, as well as have fun.

#### Personal

Gender: Male Nationality: Pakistani circa 2002 AD

#### Areas of specialization

 Astrophysics · Scientific Research Exoplanetary Science · GIS & Remote Sensing Programming · Scientific & Fictional Writing

#### Interests

Reading, Writing, Programming, Cycling and Listening to the Music during all these.

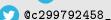
#### **Application Softwares**

 Jupyter Notebooks · Visual Studio Code FITS Liberator · Microsoft Office · ArcGIS Pro & Desktop QGIS · Google Earth Engine &

Google Earth Pro

Stellarium

+92-349-4906282 def\_fun







## On Going Projects

2025-Pre

#### Down the Black Hole: A wobbly web experience

LEAD · HTML, CSS, JS 💡

As for my Bachelors final year project, I along with a friend, are currently designing a webpage that will contain information, articles, current research, illustrations from across the web, links as well as basic help to navigate data regrading BHs from sources like NASA and the things we learn as we venture in this rabbit hole.



#### **DEGREES**

2019-21 Intermediate

F. Sc (Pre Eng) [A+] · Govt. College Township 🏦

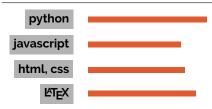


2021-25 **Bachelors** 

> SPACE SCIENCES [3.86] · Dept. of Space Science University of The Punjab 🏛



## Programming

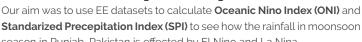


(LATEX compiled on January 5, 2025)

### Past Work

2024 Studying the effects of ENSO on Moonsoon in Pakistan

THOUGHT LEADER · Google Earth Engine ?





season in Punjab, Pakistan is effected by El Nino and La Nina.

2024 **QSOs Spectra and Virial BH masses on SDSS** 

Solo · SciServer 💡

In this little side project, I explored the vast dataset on Spectra of QSOs through python as well as performed some stats on the BH mass dataset from Vizier.



2023 Exoplanets around "TRAPPIST-1" through "KEPLER"

LEAD · FITS Liberator & MAST 💡

Analysing the Light curves of "TRAPPIST-1" that we made using the "Transit data" from Kepler Mission and K2 and studied the orientation and general planetary parametes of the planets in TRAPPIST system.



#### Positions Held

Summer Internship at 2024 PMD. HQ. Islamabad 2024

Dr. Khalid's assistant in SARNET course

## **PROGRAMS**

ONI using OISST v2.1 dataset, 2024 Google Earth Engine.

2024 Orbits & Keplerian Elements in Python, Google Colab.

## LANGUAGES

Urdu C2 mother tongue English | C2

## Writings

you Aug. 2021 "Would like an Omelete?'