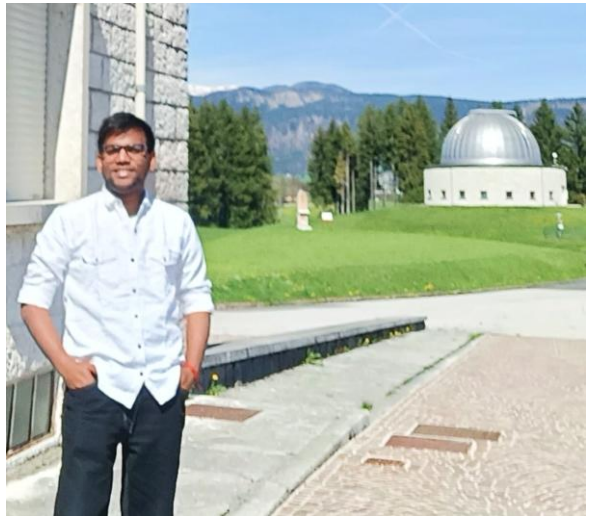

Dhiraj Hiralal Gupta

Education

- Bachelor of Science in Physics (2016-2019**)**

JVM'S Mehta College, Mumbai University,

CGPI: 7.20/10

- Master of Science in Physics *(Material Science)* **(**2019-2021)

The Institute of Science, Dr. Homi Bhabha State University

Thesis:- Theoretical Review Of Photocatalytic Compound and Application

CGPI: 9.29/10

Work Experience

*** Adjunct Professor (**Jan 2023 - Mar 2023)

THE INSTITUTE OF SCIENCE, Dr. HOMI BHABHA UNIVERSITY, MUMBAI

***Assistant Teacher**

- ARYA GURUKUL INTERNATIONAL Jr. COLLEGE, Jul 2022 - Apr 2023
- MAZIDUN HIGH SCHOOL AND Jr. COLLEGE, Oct 2021 – Apr 2022

Research experience

Junior Research Fellow at Tata Institute of Fundamental Research (TIFR) (Aug 2023 - Jan 2023)

-Sputtered thin films of different materials on flexible and rigid substrates.

-Involved in developing a custom-built substrate rotation mechanism for a sputtering system.

-Characterization of Thin Film with techniques of Atomic Force Microscopy (AFM), Scanning Electron microscope (SEM), Profilometry, and Ellipsometry.

INAF-BRERA:

- Optical Bench Setup & Alignment
- LASER Optics

Publication

Relativistic theory to Compton effect for spectroscopic detector

[https://doi.org/10.1016/j.nima.2022.166656].

UNIVERSITÀ DEGLI STUDI DI PADOVA

INAF
ISTITUTO NAZIONALE DI ASTROFISICA

INAF - Osservatorio Astronomico di Brera, Milan (gOLeM)

PhD Research Topic: *Innovative holographic optical elements for modern optical instrumentation.*

Supervisor: Dr. Andrea Bianco

Research Description:

1. Developing Volume Holographic Optical Elements (VHOEs).

2. Enhancing and simplifying the performance of optical systems through VHOEs

3.VHOE Developments:

Volume Phase Holographic Gratings (VPHGs) & Volume Phase Holographic Diffuser