

EDUCATION

Savitribai Phule Pune University <i>Master of Science in Physics</i>	Aug. 2021 – May. 2023 Pune, India
St. Xavier's College <i>Bachelor of Science in Physics</i>	May. 2018 – April. 2021 Ahmedabad, India

RESEARCH EXPERIENCE

Studying the central region of Galaxy Clusters and their Morphological Study <i>Advisor: Dr. Viral Parekh</i>	Aug. 2023 - Present NRAO, USA
Cosmological Models in Modified Theory of Gravity with Observational Constraints <i>Advisors: Dr. Saibal Ray, Dr. Anil K. Yadav, Dr. Lokesh K. Sharma</i>	Jun. 2023 - Present Mathura, India
Extended X-Ray Jets in Radio-loud Quasars: A Morphological Study <i>Advisor: Dr. Vaidehi Paliya</i>	Aug. 2022 - May. 2023 IUCAA, India
Detecting and studying Vela Pulsar timing using Ooty Radio Telescope <i>Advisor: Prof. Avinash Deshpande</i>	Sep. 2022 - Dec. 2022 IUCAA, India
Methods of Increasing Efficiency of Solar Cells <i>Advisor: Dr. Sanjeev Gupta</i>	May. 2020 - April. 2021 St. Xavier's College, Ahmedabad

PUBLICATIONS

A power law solution for FRLW Universe with observational Constraints <i>L. Sharma, S. Parekh, S. Maurya, K. Singh, S. Ray, et al.</i>	IJGMMP Under Review
Modified power law cosmology: theoretical scenarios and observational constraints <i>L. Sharma, S. Parekh, S. Ray, A. Yadav et al.</i>	MDPI Jun. 2023 - Present
Constraining anisotropic universe under $f(R, T)$ theory of gravity <i>L. Sharma, S. Parekh, S. Ray, A. Yadav et al.</i>	JHEAP Jun. 2023 - Present
A power law solution for Bianchi-I Universe with observational constraints <i>L. Sharma, S. Parekh, S. Ray, A. Yadav et al.</i>	IJGMMP Jun. 2023 - Present
Generation of Bulk Viscous Cosmological Model in $f(R, T)$ Gravity & observational constraints <i>L. Sharma, S. Parekh, S. Ray, A. Yadav et al.</i>	PRD Jun. 2023 - Present
Cosmological aspects of a hyperbolic solution in $f(R, T)$ theory of gravity & observational constraints <i>L. Sharma, S. Parekh, S. Ray, A. Yadav et al.</i>	PRD Jun. 2023 - Present
Overcoming the hurdles in imparting Astronomy education in Schools <i>Vaibhav Trivedi, S. Parekh</i>	IAU Proceedings Jun. 2023 - Present
Innovative computational experiment on projectile motion <i>S. Parekh</i>	IAU Proceedings Jun. 2023 - Present

SKILLS

Programming: Python | Fortran | MATLAB | Mathematica | R
Modules: CIAO | CASA | Scipy | Astropy | DS9
Markup: L^AT_EX | HTML | CSS
Designing: Canva | Adobe Premiere Pro

Language Proficiency: Gujarati | Hindi | English

Designing: Canva | Adobe Premiere Pro

WORKSHOPS / CONFERENCES / TALKS

Studying the central region of Galaxy Clusters and their Morphological Study

Aug. 2023 - Present

Advisor: Dr. Viral Parekh

NRAO, USA

POSITIONS OF RESPONSIBILITY

Associate Manager, XYZ Club, IIT Guwahati

Apr. 2018 - Apr. 2019

– Conducted so and so event for this many audience

ACHIEVEMENTS

Bronze Medal, XYZ Challenge, ABC Company, FGH City

2018

JEE Advanced 2021, Secured **AIR XYZ** among 0.15 million candidates appearing for the test

2021

JEE Mains 2021, Secured **AIR XYZ** among 2.2 million candidates appearing for the test

2021

EXTRACURRICULARS

XYZ position, ABC Society

Student Volunteer, ABC Activity