# Meghana Pannikkote









### **EDUCATION**

#### Erasmus Mundus Joint Masters in Astrophysics and Space Science Oct 2023 – Present (EMJM-MASS)

University of Rome Tor Vergata (Italy), University of Belgrade (Serbia)

**Thesis:** Late-time X-ray Behaviour of Tidal Disruption Events Advisors: Prof. Eleanora Troja & Prof. Francesco Tombesi

**GPA:** 29.02/30.00

# Bachelor of Technology in Engineering Physics

Jul 2019 - May 2023

National Institute of Technology Calicut, India

**Thesis:** Modelling the Solar Surface Flux Transport using PINNs

Advisors: Dr. Bhargav Vaidya (IIT Indore) & Dr. Ram Ajor Maurya (NIT Calicut)

**CGPA:** 9.14/10.00

### RESEARCH EXPERIENCE

Summer Intern, Max Planck Institute of Astronomy (MPIA), Heidelberg Jul – Sep 2024

**Topic:** Radio Variability of z > 5 quasars as observed by VLASS

Supervisor: Dr Eduardo Bañados

Vacation Student Intern, Inter-University Center for Astronomy and

Jun – Aug 2023

Astrophysics (IUCAA), Pune

**Topic:** Hunting gamma-ray emitting FR0 radio galaxies in wide-field sky surveys

Supervisor: Prof Vaidehi S Paliya

Student Intern, Indian Institute of Technology Indore

May 2022 – May 2023

**Topic:** Building a Space Weather forecasting model using Python

Supervisor: Dr Bhargav Vaidya

## CONFERENCES AND SCHOOLS

## MASS Summer School: Observational astronomy and data processing

Jul 2024

University of Côte d'Azur, France

Focused hands-on activities such as spectroscopy, photometry, and data processing, with real-time astronomical observations using the C2PU telescopes at Calern Observatory.

## VI AGN & Gravitional Lensing Conference

Jun 2024

Zlatibor, Serbia

Link: http://servo.aob.rs/AGN\_GL/index.html

#### MASS Winter School: From Stars to Cosmic Explosions - Bridging Scales in Astrophysical Data Analysis Jan 2024

University of Rome Tor Vergata, Italy

Focused on astrophysical data analysis, with hands-on activities ranging from aperture photometry to time series and CMB data analysis.

## Beginning Astronomy Workshop: Start a data-driven journey

Feb 2023

IUCAA & Manipal Centre for Natural Sciences, Manipal University

Introductions to stellar and solar astronomy, low- & high-redshift galaxies, and their evolution, along with hands-on sessions from each of these fields.

## ZTF Summer School: Multi-messenger astrophysics

Jul 2022

University of Minnesota and Caltech

Provided training in data processing of ZTF survey data using data science techniques such as Bayesian inference, time-series analysis and machine learning.

### SCIENTIFIC TALKS

# Unveiling Gamma-Ray emitting FR0 Radio Galaxies

Jun 2024

Presented at the VI AGN & Gravitional Lensing Conference, Zlatibor, Serbia

#### **PUBLICATIONS**

Meghana Pannikkote, Vaidehi S. Paliya and D. J. Saikia "Hunting Gamma-Ray-emitting FR0 Radio Galaxies in Wide-field Sky Surveys" (2023) ApJ 957 73

### SCHOLARSHIPS AND HONORS

## Erasmus Mundus Scholarship

2023 - 2025

Feb 2021

Funded by the European Union for the Masters in Astrophysics and Space Science (EMJM-MASS)

Gold Medalist 2023

B. Tech. Engineering Physics at National Institute of Technology Calicut, India

### **CERTIFICATION**

Fluid Dynamics for Astrophysics, IISER Pune, NPTEL Online Certification Jan – Apr 2022

Introduction to Unsupervised Learning, DPhi Online Certification Dec 2021

Data-driven Astronomy, University of Sydney, Coursera

## TECHNICAL SKILLS

Programming Languages:

- Python
- C++
- SQL & ADQL
- LATEX

Softwares:
• ds9

- HEASoft
- CASA tools
- TOPCAT

Additional:

- Machine Learning
- Version control using Git
- Unix shell scripting