

Kapil Kedar Tirpude

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Shravasti Society, Patipura, Yavatmal - 445001

DOB: Nov 27, 1992



Educational Qualifications:

- Research Scholar (Master's Thesis)

Inter-University Center for Astronomy and Astrophysics (IUCAA), Pune.

Topic: Broadband X-ray study and analysis of the Active Galactic Nuclei (Super-Massive Blackholes) from the data provided by the IRS satellite AstroSat and verification of the calibration and technical aspects of Soft X-ray (0.2-10.0 keV band) Telescope, AstroSat.

(May 2016-April 2017)

- Master of Science (MS; through BS-MS dual degree, May 2017)

Indian Institute of Science Education and Research (IISER), Pune
Specialization in (Astro)Physics.

CGPA: 7.1

- XII-HSC (Vocational; Stream: Electronics)

Amolakchand Mahavidyalaya, Yavatmal

Amravati University, Maharashtra State Board

Percentage: 94.17

Physics: 98/100; Electronics: 193/200

- X-SSC

Free Methodist English High School, Yavatmal

Amravati University, Maharashtra State Board

Percentage: 92.00

Experience:

Teaching Oriented:

- Subject Matter Expert, Physics (Mains+Advanced), Srichaitanya-Flipick Pvt Ltd

I am working with Flipick Pvt Ltd, an IT company based in Pune, that develops study material for the weekend tests (MAINS+ADVANCED+NEET) conducted by SriChaitanya Academy. My job is to prepare video lecture solutions for every Physics problem in the test. (Sept 2017 – Ongoing)

- Physics (Board + JEE Mains + JEE Advanced) Faculty.

IIT Gurukul And Vision Classes, Yavatmal

Teaching Physics, CBSE Board syllabus (NCERT) and JEE (Mains+Advanced) to students pursuing XI and XII grade (June 2017-Ongoing).

- Physics (Board+JEE Mains) Faculty; IIT-JEE Foundation faculty for High School Students:

Rajat Academy, Pimple Saudagar, PCMC

Teaching Boards + JEE Mains to students pursuing XI and XII grade education in CBSE and HSC (Maharashtra) boards (July 2016-April 2017).

Also conducted Crash Course for MHTCET in April 2017.

- Physics (Board+JEE Mains) Faculty,

Nuclear Academy, Fergusson College Road, Pune

Teaching students pursuing XI and XII grade, HSC (Maharashtra). (Jan 2015-Jan 2016)

- Teacher, Physics,

DISHA- NGO, IISER Pune

Social activity, teaching the underprivileged, at XII grade. (August 2014-May 2015)

One of my students in this programme is selected to pursue BS-MS dual degree course at IISER Pune.

Research Oriented:

- I have worked on understanding the particle acceleration processes involving ejection of High-Energy Electron Blobs from BAL-Lacertae objects, trying and estimating their density and masses and investigating their connection with the dips in the X-ray spectra.

Duration: 4 Months (Jan-Apr 2016)

Grade: A

Guide: Dr Prasad Subramanian, IISER, Pune

- I have also worked on the study of Active Galactic Nuclei (NGC-3998 and MRK-110) based on the broadband Soft X-ray data obtained from AstroSat satellite. I've extracted valuable science products from the data and estimated the hydrogen column density along their line of sight, proved existence of black-body spectral contribution to the soft excess in the spectra, analysis of light curves to estimate the size of emission region, etc.

Duration: May 2016-April 2017

Guide: Prof G C Dewangan, IUCAA, Pune

Achievements:

- AIR 190 (Physics), CSIR-UGC NET Exam (May 2015)
- Recipient of Special Merit Award, Ministry of Social Justice, Government of India, for securing 3rd Rank in Maharashtra State in HSC Exam – 2011 among SC candidates.
- MHTCET Score: 174/200 (2011), Physics - 46/50
- Best musician award, Flute, Karavaan, IISER Pune, 2014
- State Level Participation, SQAY martial arts, 2009
- Division level Participation, Chess, 2009
- City topper, National Science Olympiad, 2008
- City topper, National Cyber Olympiad, 2008
- School Prefect, Free Methodist English High School, 2008-09

Skills:

- Commitment and Persistency towards work.
- I believe I am resilient and wouldn't let predicaments affect my work.
- Fluent communication in English Language.
- Effective and impressive teaching skills.
- Willingness to learn and improvise.
- Good interpretation skills, lucidity in teaching pattern depending upon the mindset of students.
- Good listener, dedicated teacher.

Other Skills/Interests:

- Backyard Astronomer (Star-Gazer), I own a Newtonian telescope and arrange sky watch sessions for people regularly.
- I keep keen interest in learning and understanding Hindustani classical music. I have been learning the Flute and currently learning the Sitar.
- I participate regularly in social outreach activities pertaining Education. Have been the Coordinator for Spread-The-Smile, DISHA, IISER Pune. (http://www.iiserpune.ac.in/outreach/social-outreach/disha#Spread_Smile)