

# Curriculum Vitae

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## Research Interests:

Multi-wavelength study of AGN feedback in galaxy clusters in X-ray, radio, optical wavebands,  
Physics of ICM in galaxy clusters, cavities, shocks, cold fronts, gas sloshing, jets, radio relics etc

## Current Position:

2017 Onwards – Ph. D. in Physics

## Academic Qualifications:

2017 - M. Phil. (Physics),  
Percentage/Grade – A grade (75.00%)  
School of Physical Sciences, S.R.T.M.UNIVERSITY, Nanded (MS), India  
2013 - M. Sc. (Physics)  
Percentage/Grade – A grade (77.68%)  
School of Physical Sciences, S.R.T.M.UNIVERSITY, Nanded (MS), India  
2011 - B. Sc. (Physics, Chemistry, Maths)  
Percentage/Grade –71.00%  
Shri Shivaji College, Parbhani (MS), India  
2008 - H.S.C. (Physics, Maths, Biology, Chemistry)  
Percentage/Grade –68.09%  
Dnyanopasak Shikshan Mandal College, Parabhani (MS), India  
2006 – S.S.C.  
Percentage/Grade –78.40%  
Dnyandeep Vidyalaya, Parabhani (MS), India

## Awards:

December 2017 – 2<sup>nd</sup> prize in oral presentation in District level Avishkar Research Festival-2017  
March 2019 - 2<sup>nd</sup> prize for poster presentation in Raman Conference for Research Students,  
Organised by School of Physical Sciences, S.R.T.M.University, Nanded  
April 2015- March 2020 – Rajiv Gandhi National Fellowship by University Grants Commission,  
India  
August 2006 – Chhatrapati Rajarshi Shahu Maharaj Merit Scholarship

## Teaching Experience:

Two years teaching experience as a Lecturer in Physics in Shri Shivaji College, Parbhani (MS) during 2013 to 2015.

### **Papers Published / submitted:**

1. "Merging cold front and AGN feedback in the peculiar galaxy cluster Abell 2626", Kadam S. K., Sonkamble S. S., Pawar P. K., Patil M. K., 2019, MNRAS, 484, 4113

### **Abstracts/ proceedings, presentations:**

1. Presented poster titled "Sloshing of the ICM and Cold front in the environment of a cool core cluster Abell 795" in Young Astronomers meet-2017, held at IUCAA, Pune (MS).
2. Presented poster titled "ICM properties and Cold front detection in cool core cluster Abell795" in 36<sup>th</sup> astronomical society of india meeting.
3. Delievered a talk titled "X-ray cavities, cold front in peculiar galaxy cluster Abell 2626" in Multi-wavelength Sky Observations - AstroSat and Beyond symposium.

### **Conferences & Workshops attended:**

International Conference on Nanoscience and Nanotechnology, S.R.T.M. University, Nanded, India (11<sup>th</sup> - 13<sup>th</sup> January, 2011)

National Workshop on Galaxies: Normal And Active, Swami Ramanand Teerth Marathwada University, Nanded (GNA-2011, 14<sup>th</sup> - 17<sup>th</sup> November, 2011)

IUCAA Introductory Summer School Programme, IUCAA, Pune (May - June, 2012)

INSPIRE Science Internship Camp 2012, School of Physical Sciences, S.R.T.M. University, Nanded, India (26<sup>th</sup> - 30<sup>th</sup> March, 2012)

Fifth Science Conclave, Indian Institute of Information Technology, Allahabad, (8<sup>th</sup> - 14<sup>th</sup> December, 2012)

National workshop on Astronomy with small telescopes, (8<sup>th</sup> - 11<sup>th</sup> December, 2015)

AstroSat data analysis workshop, ARIES, Nainital, India (8<sup>th</sup> -11<sup>th</sup> August, 2017)

University level Avishkar Research Festival 2017, Shri Shivaji College, Parbhani, India

Young Astronomers' Meet (YAM), IUCAA, Pune (11<sup>th</sup> - 15<sup>th</sup> September, 2017)

36<sup>th</sup> Annual Meeting of the Astronomical Society of India, Osmania University, Hyderabad, India (5<sup>th</sup> - 9<sup>th</sup> February, 2018)

Franco-Indian school on 'From reionization to large scale structure - a multiwavelength approach', IUCAA, Pune (11<sup>th</sup> -17<sup>th</sup> February, 2018)

Awareness Program on Free and Open Source Software, School of Mathematical Sciences, S.R.T.M. University, Nanded, India (10 January, 2018)

National Conference on Dielectric Relaxation and Spectroscopic Techniques (NCDRAST-2017), School of Physical Sciences, S.R.T.M. University, Nanded, India (14<sup>th</sup> - 15<sup>th</sup> December, 2017)

One Week National Workshop on Free and Open Source Software for Teaching and Research, School of Mathematical Sciences, S.R.T.M. University, Nanded, India, (26<sup>th</sup> December 2018 to 1 January 2019)

Workshop on Multi-wavelength Sky Observations - AstroSat and Beyond and symposium, DAASE, IIT Indore, India (3<sup>rd</sup> - 9<sup>th</sup> February, 2019)

37<sup>th</sup> Annual Meeting of the Astronomical Society of India, Christ University (Deemed to be University), Bengaluru, Karnataka, India (18<sup>th</sup> - 22<sup>nd</sup> February 2019)

### **Computer Skills / Softwares known:**

- Basic knowledge of Python, C++
- Extensive knowledge in data reduction using Chandra interactive analysis of observations (CIAO), Image Reduction and Analysis Facility (IRAF), XSPEC, High energy Astrophysics Software Package (HEASOFT), SAO-ds9
- Basic knowledge of Astronomical Image Processing Software (AIPS), Common Astronomy Software Applications (CASA).