

CURRICULUM VITAE

NAME Nisha Rani

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EDUCATIONAL QUALIFICATION B.Sc. 2005
C.C.S. University, Meerut, India
(First Division)

M.Sc.(Physics) 2007
C.C.S. University, Meerut, India
(First Division)

Cleared CSIR-NET in 2012
(Rank-38)

Cleared National Level DU
Entrance Exam in 2012

Got selected for the Senior
Research Fellowship by
CSIR in 2017

Ph.D. 2019
Delhi University, Delhi, India

COMPUTER PROFICIENCY Operating Systems: Windows 10
and Linux.

Programming Language: C++,
Scilab and Mathematica.

RESEARCH EXPERIENCE I did my Ph.D. in the department of Physics
& Astrophysics, University of Delhi, under
the supervision of **Prof. Amitabha**

PUBLICATIONS

Mukherjee and Prof. Deepak Jain in Cosmology. My research topic was “Statistical Studies of Accelerated Cosmic Expansion.

“Transition Redshift: New constraints from parametric and non-parametric method”

(JCAP 12 (2015) 045)

Nisha Rani with Deepak Jain, Shobhit Mahajan, Amitabha Mukherjee & Nilza Pires

“Revisiting dark energy models using differential age of galaxies”

(JCAP 03 (2017) 005)

Nisha Rani with Deepak Jain, Shobhit Mahajan, Amitabha Mukherjee & Marek Biesiada

“Constraining Cosmological and Galaxy Parameters using Strong Gravitational Lensing Systems”

(Phys. Rev. D 103, (2021) 063511)

Darshan Kumar, Deepak Jain, Shobhit Mahajan, Amitabha Mukherjee & **Nisha Rani**

TEACHING EXPERIENCE

July 2017-Till date
(Teaching as Assistant Professor in Miranda House, University of Delhi)

ACADEMIC RESPONSIBILITIES

I along with a colleague mentored a team of 6 students who took part in an International Physicist Tournament that was hosted by Shiv Nadar University in Jan 2020.

I along with a colleague mentored 9 groups (each group had about 5-6 students) under the DSKC projects in May-July 2020. In these projects, students get opportunity to work on the topics of their interest.

I along with a colleague mentored 3 groups (each group had about 4 students) in summer vacation 2021 under the DSKC projects.

OTHER RESPONSIBILITIES

I am part of the “Unnat Bharat Abhiyan Team” in Miranda House.

I have also been part of the admission of undergraduate in 2021-2022.

I am also part of the “Queer Collective Team” which is a student affair cultural society.

CONFERENCE PRESENTATIONS

- Delivered a talk on “*Transition redshift: New constraints fromage of galaxies*”, at XXI DAE-BRNS high energy Physics Sym- posium at IIT Guwahati, Assam, Dec 2014.
- Delivered a talk titled “*Transition Redshift: Constraints fromage of galaxies and strong gravitational lensing*”, in Workshop on Cosmology with large scale structure at Centre for Theoret- ical Physics, Jamia Milia Islamia, New Delhi, Jan 2015.
- Delivered a talk on “*Gravitational Lensing bounds on Transi- tion Redshift*”, in Saha Theory Workshop: Cosmology at the interface at SINP, Kolkata, Jan 2015.
- Delivered a talk on “*Transition Redshift: A new cosmological number*”, in XXXIV Meeting of Astronomical Society of India, at University of Kashmir, Srinagar, May 2016.
- Presented a poster titled “*Parametric and Non-parametric Constraints on Transition Redshift*”, at the Summer School on Cosmology at Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, June 2016.

Delivered an invited talk on “*Revisiting dark energy models using differential ages of galaxies*”, at the Raman Research Institute, Banglore, India, July 2018.

Delivered an invited talk in Vidyut Society of Miranda House on “*Brief history of the Universe*” , August 2018.

CONFERENCES & WORKSHOPS ATTENDED

- Attended a workshop on “Observational aspects of Astrophysics and Cosmology” at Viswa Bharti, Shantiniketan, Sept 2014.
- Attended workshop on “Statistical applications to Cosmology and Astrophysics” at Indian Statistical Institute, Kolkata, Feb 2015.
- Attended workshop on “Probing the large scale structure of the Universe with weak lensing” at Centre for Theoretical Physics, Jamia Milia Islamia, New Delhi, March 2016.
- Attended workshop on “Cosmology with next generation radio surveys” at Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, June 2016.

Attended national workshop on "Challenges of Teaching Physics Laboratory Courses in Online Mode", at Department of Physics, University of Delhi, India, Jan 2021.

DATE:15/01/2022

Place:Delhi

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