

Komal Kumari

Curriculum Vitae

PERSONAL DETAILS

Address 313A Kinard Laboratory, Clemson University
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EDUCATION

Graduate Student 2015-present
Physics and Astronomy Department, Clemson University
Expected graduation with a PhD degree in August 2020.

Integrated BS-MS degree in Physical sciences 2010-2015
Indian Institute of Science, Education and Research (IISER), Kolkata, India
Graduated with a BS-MS degree in Physics in June 2015.

RESEARCH EXPERIENCE

Research Assistant Aug 2016-present
Clemson University, Full-time
Advisor- Prof. Jens Oberheide
“ Understanding short-term nonmigrating tidal variability from SABER using information theory and Bayesian Statistics ”

MS Thesis 2014-2015
IISER KOLKATA, Full-time
Supervisor- Dr. Dhananjay Nandi
“ To understand the dynamics of the dissociative electron attachment due to electron-molecule collision in gas phase using velocity map spectrometer ”

TEACHING EXPERIENCE

Teaching Assistant Aug 2015-April 2016
Clemson University, Full-time
PHYS 2090
Algebra-based Physics laboratory that emphasizes mechanics including linear motion, rotational motion, momentum, energy and oscillations.

MEMBERSHIPS

Member, American Geophysical Union, AGU. 2017- present

PRESENTATIONS

Poster presentation at AGU Fall Meeting, New Orleans, LA Dec 2017

Kumari, K. and J. Oberheide

Understanding short-term nonmigrating tidal variability in the ionospheric dynamo region from SABER using information theory and Bayesian statistics

Poster presentation at CEDAR Workshop Keystone, CO June 2017

Kumari, K., J. Oberheide, and J. Du-Caines

A new approach to study short-term nonmigrating tidal variability using information theory and Bayesian statistics

ACHIEVEMENTS

- 2017 Outstanding Student Paper Award (**OSPA**), AGU fall meeting
- 2010-15 Innovation in Science Pursuit for Inspired Research(**INSPIRE**) Fellowship
- 2014 Obtained the **SIP** fellowship program from Physical Research Laboratory, India
- 2010 Scored 99.8 percentile in the **IIT-JEE** examination in all over India.

INTERNSHIPS

“Titan Nitriles and Laboratory Analog” 05-07/2014

Physical Research Laboratory, Ahmedabad, India.

Supervisor- Dr. Bhalamurugan Sivaraman

“Optical Trapping” 05-07/2013

IISER-Kolkata, India

Supervisor- Dr. Ayan Banerjee

“3 omega method for measurement of thermal conductivity measurement of gold” 05-07/2012

Indian Institute of Science, Bangalore, India.

Supervisor- Dr. Aveek Bid

WORKSHOP AND SYMPOSIUM

Workshop Participated in 15th PLANEX(Planetary Sciences and Exploration Program) Workshop on “Mars and Moon: Remote Sensing and Analogue Studies”, January 4-10, 2015 (Physical Research Laboratory, Ahmedabad, India)

Symposium Participated in 3rd DAE-BRNS Symposium on ” Atomic, Molecular and Optical Physics” December 14-17, 2012 (IISER Kolkata, India)

SKILLS

Software IDL, L^AT_EX, MATLAB