Puneet Sharma

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EDUCATION

Ph.D., (July 2014-present) Atmospheric Science
Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, New Delhi, India

- CGPA: 7.5/10
- Thesis Title: Aerosol-Cloud interaction over the South Asian monsoon region: Implications for the regional climate.
- Supervisor: Dr. Dilip Ganguly

M.Sc., (2012) Physics
Jamia Millia Islamia, Delhi, India

- CGPA: 7.2/10

B.Sc., (2009) Instrumentation, Physics, Mathematics
Jamia Millia Islamia, Delhi, India

- Percentage: 63.72

AWARDS AND FELLOWSHIPS

Ph.D. Fellowship: Qualified Graduate Aptitude Test for Engineering (GATE) organized by Ministry of Human resource development (MHRD), Government of India

- All India Rank 722 in Physics 2013.
- All India Rank 769 in Physics 2012.

Qualified the National Eligibility Test (NET) for lectureship in Physics conducted by Council of Scientific and Industrial Research (CSIR), Government of India, 2014.

PUBLICATIONS

Charu Singh, Dilip Ganguly, **Puneet Sharma** 2019. Impact of West Asia, Tibetan Plateau and local dust emissions on intra-seasonal oscillations of the South Asian monsoon rainfall, *Climate Dynamics*, https://doi.org/10.1007/s00382-019-04944-5

Charu Singh, Dilip Ganguly, **Puneet Sharma**, Shiwansha Mishra 2019. Climate response of the south Asian monsoon system to West Asia, Tibetan Plateau and local dust emissions, *Climate Dynamics*, https://doi.org/10.1007/s00382-019-04925-8

Puneet Sharma, Dilip Ganguly; Assessing aerosols, clouds and their interaction over the northern Bay of Bengal: Role of meteorology in model evaluation and performance. (*Manuscript in Preparation*)

CONFERENCES/ PRESENTATIONS/LECTURES

Attended **Spring School on Cloud Physics and Dynamics** at LMD, Ecole Normale Supérieure, Paris, France, 28 May-01 June 2018 with a grade of **A**

Puneet Sharma and Dilip Ganguly, "Aerosol-Cloud interaction over the Bay of Bengal during polluted winter season: A modelling perspective", (Poster) presented at EGU General Assembly-2018, Vienna (Austria), 08-13 April 2018.

Attended **Lecture series on 'Cloud Microphysics and Dynamics: Observations and Models' by Prof. Wojciech W. Grabowski, USA and Dr. Duncun Axisa, USA** at Indian Institute of Tropical Meteorology (IITM), Pune, Maharashtra, 29 January-01 February 2018.

Puneet Sharma and Dilip Ganguly, "Evaluating Aerosol and Cloud simulation over South Asia in CESM CAM using satellite observations", (Oral presentation) presented at IASTA-2016, PRL (Ahemadabad, Gujarat), 06-08 December 2016.

Soumi Dutta, **Puneet Sharma** and Sagnik Dey, "Decadal Changes in Aerosol and Total Cloud Fraction over India", (Poster) presented at IASTA-2014, BHU (Varanasi), 11-13 November 2014.

Attended and successfully completed courses on Atmospheric Physics and Remote Sensing and GIS during Ph.D. coursework.

COMPUTATIONAL SKILLS

Community Earth System Model

- Porting CESM1, CESM CAM-Chem, SPCAM to "PADUM" (Hybrid High Performance Computing (HHPC) http://supercomputing.iitd.ac.in) facility at IIT Delhi
- Conducted benchmarking exercises and experiments.

Programming Languages: Python, R, FORTRAN, MATLAB

Software Packages: UV-CDAT, NCL, Matplotlib, ArcGIS, LaTeX

WORK EXPERIENCE

Student In-Charge of Server Room at CAS (July-2014 - present): Monitoring computing and storage systems, installing required tools on storage server.

Junior Research Fellow (JRF) (July 2013 - June 2014): Simulation and Prediction of Intense Convective Systems Associated with Indian Summer Monsoon: Role of Land Surface Processes. Principal Investigator: Dr. Sagnik Dey, Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, New Delhi, India: Performed statistical analysis of aerosol and precipitation datasets from satellite observations to understand the impact of anthropogenic aerosols on Indian Summer Monsoon (ISM).