

Sumitra Sharma



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Objective: Looking for an opportunity to utilize my strengths to build my career that would help me in achieving greater practical excellence in the Research and Development Domain. Hardworking nature along with good communication skills to explore the requirements and come up with innovative solutions.

Languages: English, Hindi

EDUCATION

July 2018 to present

Central University of Rajasthan, India

M.Sc in Atmospheric Science

Percentage: **66.92 %**, upto third semester.

Focus: Numerical Weather Prediction, Dynamic Meteorology, Atmospheric Boundary Layer, Modelling of Atmospheric processes, Weather prediction and Analysis, Time Series Analysis and Forecasting.

July 2014 to 2017

Miranda House, University of Delhi, India

B.Sc in Physics (Honours)

Percentage: **79.19 %**

Focus: Mathematical Physics, Quantum Physics, Digital Electronics, Classical Mechanics, Thermodynamics.

July 2013 to 2014

Saraswati Vidya Mandir, Shamli, Uttar Pradesh (U.P.), U.P. Board, Allahabad, India

Intermediate, 12th in Science Stream (Physics, Chemistry, Mathematics, Hindi, English)

Percentage: **88 %, 95 % in PCM**

Focus: Physics, Chemistry, Mathematics.

July 2011 to 2012

Saraswati Vidya Mandir, Shamli, Uttar Pradesh (U.P.), U.P. Board, Allahabad, India

High School, 10th (English, Hindi, Mathematics, Science, Social Science, Drawing)

Percentage: **84.83 %**

Focus: Science, Mathematics, Social Science.

PRACTICAL / WORK EXPERIENCE

Jan 2020 to present

Central University of Rajasthan, India (Master Thesis)

Topic: "Evaluation and Bias Correction in WRF Model Forecasting of Precipitation and Potential Evapotranspiration over Rajasthan, India"

Tasks: Daily and hourly Evapotranspiration calculation using WRF simulated parameters and validation with observational data by statistical approaches.

Tools: WRF and MATLAB

July to Dec 2019

Central University of Rajasthan, India (Mini Project)

Topic: "Simulation of Idealized 2dsquall lines"

Task: 6-hour simulation of various parameters such as wind components and perturbation potential temperature.

Tools: WRF and OpenGrADS

August 27-30, 2019

Space Application Centre, Indian Space Research Organization (ISRO), Ahmedabad India (SMART Trainee)

Topic: "Emerging Trends in GNSS Meteorology"

Tools: Python and MATLAB

May 14 – July 17, 2019

Physical Research Laboratory (PRL), a unit of ISRO, Ahmedabad, India (Internship)

Topic: "Estimation of Atmospheric Boundary Layer (ABL) Height using ceilometer over Ahmedabad, India"

Tasks: To get the daily and seasonal variation in Boundary Layer Height by applying the gradient method on backscatter data and compare, validate with other data sets such as: Radiosonde data, Satellite data and Reanalysis data.

Tools: MATLAB

Dec 22 – 26, 2018

Nehru Planetarium, Teen Murti Bhavan, New Delhi, India (Workshop)

Task: "Finding the unknown objects from Giant Metrewave Radio Telescope (GMRT) data"

Tools: SAOImage DS9 software.

Literature Review; Review Paper

Topic: "Estimation of Atmospheric Boundary Layer Height using various data sets"

TRAINING AND WORKSHOP

Oct 10, 2019

- Outreach Training Programme on Satellite Meteorology and Oceanography conducted by Space Application Centre, ISRO at Central University of Rajasthan.

Feb 11-23, 2019

- SERB (Science Engineering and Research Board) School on Numerical Modelling Forecasting of Desert Storms and Cloud Burst (NUMCLOUDS) organized by Central University of Rajasthan.

SKILLS AND ABILITIES

Programming languages: C, C++, MATLAB

Software: OpenGrADS, MS Word, MS Excel, LaTeX

NWP Model: Weather Research and Forecasting (WRF)

EXTRACURRICULAR ACTIVITIES

Mar 8 to 10, 2019

- Participated in the Cultural program at the **International Conference on Molecular Basic of Diseases and Therapeutics** organized by Central University of Rajasthan.

Feb 25 to 26, 2019

- Participated in the workshop of basic training workshop on **Rights of Women** organized by Department of Social Work, Central University of Rajasthan.

Nov 15 to 16, 2018

- Participated in the International Conference on **Moving Beyond the Margin: The Politics of Exclusion and Assimilation** organized by Central University of Raj.

Oct 4, 2016

- Participated in seminar on MATLAB conducted by **APTRON SOLUTION PRIVATE LIMITED** Hansraj college, University of Delhi.

April 9 to 10, 2016

- Participated in Ethical Hacking Workshop conducted by **Kyrion Technologies Pvt. Ltd** at **Indian Institute of Technology Delhi**.

July 2015 to 2016

- Volunteered in SPIC MACAY, Miranda House Chapter, University of Delhi.

July 2015 to 2016

- Worked as a Campus Ambassador at **Leaders for Tomorrow**, a non-profit youth leadership movement for social action in New Delhi.

July 2015 to 2016

- Active member of **Vivekananda Society** of Miranda House, University of Delhi.

Jan 28 to Feb 01, 2016

- Participated in **Youth Empowerment and Skills Workshop (YES!+)**, organized by the **Art of living foundation**, techniques taught in this workshop ensure a strong healthy body, a relaxed peaceful mind and a responsible proactive attitude towards work.

Oct 16, 2015

- Participated in the Sweden-India Nobel Memorial Quiz held at Indraprastha College for Women, Delhi.