



Manmeet Singh

Researcher, AI Enthusiast

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Web & Git

about.me/manmeet
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github.com/manmeet3591

Programming

Languages:

Fortran, Python, C,
C++

Parallel Processing:

MPI, OpenMP, FMS

Other Softwares:

MATLAB, NCL, cdo

Visualization:

Ferret, MATLAB,
Paraview(basic)

OS Preference

GNU/Linux ★★★★★

Windows ★★★★★

Experience

- 09/15 - Now **Scientist B** [Centre for Climate Change Research, IITM Pune, India](#)
Development of Aerosol module for IITMESM, Preparing CMOR implementations for CMIP6 participation, Introduction of collision physics in Spectral DNS.
- 06/15 - 08/15 **Project Scientist B** [Centre for Climate Change Research, IITM Pune, India](#)
Studies on Phase Coherence of ENSO and ISMR, Development of Parallel module for Finite Difference DNS
- 08/13 - 05/15 **Trainee Scientist** [Centre for Advanced Training, IITM Pune, India](#)
Coursework in Earth System Science and Climate, Project : Development of Inhouse DNS(Finite Difference) code at IITM

Education

- 2013 - 2015 **Certificate of Completion, Course on Earth System Science and Climate** [Centre for Advanced Training, IITM Pune, India](#)
Main subjects: General Circulation and Climate, Geophysical Fluid Dynamics, Oceanography, Boundary Layer Meteorology, Computer Programming
Title of the Thesis: "Development of a Direct Numerical Simulation Code: Simulating Incompressible Laminar Flows".
A two dimensional laminar solver for Navier Stokes equations developed from scratch and validated
- 2009 - 2013 **Bachelor's Degree in Civil Engineering** [Thapar University, Patiala, India](#)
Main subjects: Mathematics and Physics, Programming, Fluid Mechanics, Solid Mechanics, Hydrology, Numerical Methods, Design of Concrete and Steel Structures
Title of the Thesis: "Design of Yale-National University of Singapore Campus, EWS for Conscient Gurgaon and Dusit Devrana Resort".
Thesis activity carried out during six month internship period at Eigen Technical Services(Meinhardt Ltd).
- 2009 **Senior Secondary** [Rosary Senior Secondary School, Delhi, India](#)
Main subjects: Mathematics, Physics, Chemistry, Computer Science.

Certifications

- 01/2016 **Machine Learning** [Stanford University on Coursera](#)
Developing a 2 layer Neural Network

Places Lived



Languages

English ★★★★★
French ★★★★★
Punjabi ★★★★★
Hindi ★★★★★
Sanskrit ★★★★★

Poster Presentations and Lectures Delivered

1. Delivered a Special Talk on "Introduction to MPI" and conducted a hands on session at the Advanced School on Earth System Modelling at Indian Institute of Tropical Meteorology, Pune, India (July 2016)
2.) Contributed and Presented towards the Poster titled "Response of IITM-ESM-v2 to naturally occurring tropospheric aerosols" at the Annual Research Advisory Committee(RAC) meeting during 12-13 January 2016 authored by A. Choudhury, M. Singh, N. Sandeep, A. G. Prajeesh, P. Swapna, R. Vellore, and R. Krishnan.

Publications

Manmeet Singh, Tanuj Chopra

Use of Computer Applications for Determining the Best Possible Runway Orientation using Wind Rose Diagrams

Proceedings of the 2nd International Conference on Recent Trends in Transportation, Environmental and Civil Engineering (TECE 2012), Dubai, UAE, Sep 20-21, 2012

Other Info

Conferences and Training Workshops:

1. Advanced School on Earth System Modelling & Workshop on Climate Change and Regional Impacts over South Asia at Indian Institute of Tropical Meteorology, Pune, India during July 18-29 2016
2. ICTP-IITM-COLA Targeted Training Activity (TTA): Towards improved monsoon simulations at The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy during June 13-17 2016
3. The 2nd Pan-Asia ESGF Training Workshop for CORDEX at Korea Meteorological Administration, Jeju, South Korea during Feb 23-25 2016
4. Advanced Refresher Course on Operational Climate Services at Meteorological Training Institute, Pune, India during Aug 24-28 2015
5. HPC Training at Indian Institute of Tropical Meteorology, Pune, India organized by IBM India during Aug 24-28 2015

October 14th, 2016

Manmeet Singh