

Motivation Letter

March 5, 2020

Dear Sir/Madam

I am writing this motivation letter to attend “Summer School on Effective HPC for Climate and Weather” in University of Reading, Whiteknights Campus, Reading, UK, on 23-28 August in 2020. I am in the final year of my Ph.D. in Atmospheric Sciences at Indian Institute of Technology Delhi (IIT Delhi) and will be finishing in about a month. I am very passionate about climatic models involving futuristic studies.

I am keen in attending the post-processing and visualization related discussions in this HPC workshop with focus on post processing tools. This summer school provides me with an opportunity to interact with researchers of international fraternity. I would use the knowledge acquired from this summer school to overcome the challenges faced in the field of numerical modeling. It will help me to improve my present work quality. I will learn new things by interacting with the international scientific community, and it will also help me to understand the need to current as well as future scientific challenges.

In addition to my research, I have examined the fidelity of the Coupled Model Intercomparison Project Phase 5 (CMIP5) and Coordinated Regional climate Downscaling Experiment (CORDEX) models in simulating the climate over the Indian land. I have worked on climate projection of the Indian regions for the 21st century under the RCP 8.5 emission scenarios using the NCAR CCSM4 model. The past, present, and future climate of Himalaya-Tibetan Highland have been examined using observation, CMIP5, and NASA Earth Exchange Global Daily Downscaled Projections (NEX-GDDP) datasets. To study the association between Indian and Tibetan monsoon a set of numerical experiments were performed using a global climate model (NCAR CESM-CAM).

I would highly appreciate this opportunity, if provided to attend this glorious summer school with international presence. As an early career scientist, the summer school will inspire me to work inherently and independently at the International level in the field of climate modelling and its future prospects.

Thank you for your time and consideration, please feel free of contact me at your convenience. I look forward to hearing for soon.

Yours sincerely,

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