

LETTER OF MOTIVATION

I was introduced informally into the world of HPC during my 10-month research visit at the department of environmental and geographical science University of Cape town South Africa in the year 2013. During this period, I was able to use the cluster through self-tutoring via different online platforms for my research on numerical climate modelling and designing of different climate sensitivity experiments. This not so formal trainings provided me a strong foundation on the tools and environment required for a successful implementation of my research ideas on climate modelling. However, studying and living in a developing country with limited or no access to uninterrupted power supply and strong internet connectivity does not prevent me from receiving parts of the required training in software and computing skill tailored towards numerical climate modelling. Immediately after the successful completion of my PhD program, I gained another one year exposure to HPC environment for post processing of high resolution climate model outputs at the Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research, Atmospheric Environmental Research (IMK-IFU), Garmisch-Partenkirchen, Germany.

In all these tasks, I have performed well with self-tutoring using manuals and checking online videos. It would be a great opportunity for me to learn and gain hands-on experience by learning from some of the best in the field of HPC applications. Hence, if selected for the HPC summer school training, I aimed to transform my basic knowledge to becoming an expert in the application of HPC knowledge for solving climate modelling research gaps, and to grow my networking for future research collaborations. One of my long-term goals is to be one of the resource persons that will motivate the upcoming young female scientists in my community to forge ahead in their pursuit of STEM research especially climate science irrespective of the seemingly difficult obstacles.