

MOTIVATION LETTER

Dear Representative of HPC.

As soon as I saw your summer school announcement, I knew it was a crucial opportunity for my research career I had to apply for. My name is Arab Djebbar, I'm a PhD student at the catholic University of Louvain, Belgium, under the supervision of Dr H. Goosse.

After finished my high school in Hydro-meteorology, I worked as weather forecaster in my country at the National Office of Meteorology for 5 years, then I got to Belgium for pursuing an advanced Master in Natural Risk Management. Now I am in my 3rd year working on my project witch deals with "Mechanisms driving droughts phenomena over North Africa."

Ever since I knew this program, I have not doubt about applying. I have some experience working on HPC environments, Linux Os, but I still have lot of thinks to learn. HPC environments becomes increasingly challenging for me as PhD student.

Being involved in the HPC summer program I expect to acquire deep and comprehensive knowledge on different HPC computation tools and environments (speed computation, parallelism, integration) and on efficient analysis of the large scale climate simulation and the huge weather data that we use in our University.

I am interested in learning and enhancing my personal skills especially in analysis of climate/weather data using Python and machine learning. Also I would like to get the opportunity to obtain the [HPC Certification Program](#).

I believe this experience would enable me to contribute in a greater extent to the ongoing projects of my research group and it would be a perfect enhancement for my research career.

On the other hand, I am eager to co-work with researchers from various disciplines, where we will get the opportunity to share our experiences and backgrounds as well as practice the English language in a scientific environment.

I am enthusiastic with the environmental focus and interdisciplinary approach of the program and the main topics are certainly attractive and are well suited to my experience and the interests of my research group. I am extremely motivated for becoming part of this adventure and I consider that my proactive attitude for learning more and co-working in a multidisciplinary team will enable me to make the most of this week.