

## **Motivation for Applying to the Summer School**

I have an expertise in climate modelling where in the past I performed simulations using a chemistry transport model CTM. I studied Ozone dynamical variability in the NH, with emphasis on atmospheric circulation patterns.

I also contributed to the development of the HiGEM model through validation of the sea ice component in the model.

My recent work utilized my previous experiences by analyzing coupled model simulations of the UKCA model, to investigate the role of atmospheric chemistry in modulating atmospheric circulation patterns and subsequently sea ice.

I have recently started a position at Research & Development R&D at the Royal Scientific Society in Jordan. I am applying now for different funding agencies to get an HPC cluster to start my modelling and analysis work, focusing on regional modelling for the MENA region. In addition to continuing my sea ice research.

I have previously worked in a bigger groups where I had access to lots of technical help and support. As I am currently the only member of my group, I do need to expand my knowledge further and learn new technical skills which the summer school is offering. I am also looking for networking opportunities so I can expand my work.

As I mentioned before, the knowledge I am seeking from this summer school is not available to me in Jordan. Attending the summer school will benefit me greatly and build in me an expertise in a place that really needs it.