

**Application for financial support for the
Summer School on Effective HPC for Climate and Weather 2020**

Dear Organizer Committee,

My name is Matías Olmo, and I'm currently doing my PhD at the University of Buenos Aires with a fellowship granted by the National Council of Scientific and Technical Research (CONICET) of Argentina. I am part of two research projects of the University of Buenos Aires and the National Agency of Scientific and Technical Research of Argentina, and a CORDEX Flagship Pilot Study about dynamical and statistical downscaling of daily extreme precipitation events in southeastern South America. My PhD studies focus on the statistical modeling of such events with machine learning techniques, in analyzing their temporal changes in multiple datasets over the region in a context of climate change, and in the generation of associated circulation patterns with neural networks. Finally, I will study how this patterns are projected to change by the end of the century based on the projections by global and regional climate models.

It results of major importance to tell that Argentina's economic problems and financial restrictions present constraints for the participation of scientists in international meetings and courses. Consequently, the institutions where I do my PhD (University of Buenos Aires and the National Council of Scientific and Technical Research of Argentina) and the projects funded by them only allow for minimal international travel expenses. These limitations mean that specially young researchers and PhD students do not often have opportunities to participate in international meetings, so the interaction with other students and researchers abroad is generally restricted. Therefore, considering that I'm very interested in attending this school, since it will provide me the necessary tools and knowledge on managing big data and improving my codes for climate analysis and simulations, I have no other option than to request full financial support to attend this summer school. Travel expenses from Buenos Aires to England may be around £1000-1100. I will be very grateful if it is possible to receive financial support to attend the meeting. Please do not doubt in contacting me in case anything is needed.