Dear Summer School's Committee,

My name is Eugenia María Garbarini and I am currently in my last year of my Ph.D in Atmospheric Sciences in University of Buenos Aires, Argentina. I am mostly interested in studying rainfall interannual variability and how its prediction could be applied to help the community which we live in. Argentina, due to its vast territory, it has several regions with different climate and soil characteristics in which many economical activities, such as energy production, agriculture and cattle, among others, are based. Weather restrictions and adversities that these activities face, represent a high level of uncertainty over their outcome. The results of these activities confront the risk of economical loses due to climatic factor such us droughts, floods or other extreme events. It is because of this that I have been motivated to work on statistical forecast of rainfall in Argentina. Currently, as my PhD thesis project, I am focused in studying how low-level circulation patterns in the South Atlantic Ocean along with sea surface temperature can affect seasonal rainfall in Argentina by defining different predictors to perform a statistical forecast. The research project also focuses in replicating this study in both the Indian and South Pacific Oceans.

Statistical forecast in climate prediction truly relies in considerable amounts of data and any tool that can help with data processing is necessary. By attending this summer school, I hope to broaden my knowledge on these matters and thus enhance rainfall forecasts as much as possible as they have a direct influence on social and economic development. It could be a perfect occasion to tailor my research to make it more efficient and thus useful to the disaster-management community. I hope to be in touch with professionals and academics from around the world that can help me learn more about different techniques and tools to apply to climate predictions.

I believe cross-disciplinary work is utterly important when considering how climate can affect our society. I hope my participation in this summer school can also contribute to this to give an insight on how my research group in Argentina currently affront climate prediction.

Yours faithfully

Lic. Eugenia M. Garbarini