

## Motivation letter

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### Application for the participation and subsidy request for ESiWACE Summer School on Effective HPC for Climate and Weather, 2020


I hereby apply for the participation and subsidy request for ESiWACE Summer School on Effective HPC for Climate and Weather, 2020. I'm convinced that my data-driven modelling and data analysis, as well as my strong research skills in weather and Climate, make me a highly suitable candidate for this summer school programme.

I was delighted to hear about the opportunity to apply for the summer school. The exciting topic on effective high-performance computing for climate and weather and also a particular focus on big data analytics and machine learning, as I am eager to deepen my knowledge of data-driven business and enjoy working in a data science environment. In future, I envision becoming more involved in the field of data science and artificial intelligence application in weather and climate, I see these technologies as being of great benefit to the humanity. I am strongly motivated and encouraged to apply for this summer school to update computational skills and as well as nurture my scientific network.

As a trained meteorological background and a doctoral candidate in Physics at the University of Graz. I functioned data-driven methods, as well as the verification and testing of climate scenarios conducted with state-of-the-art statistical approaches as well as physical models. I currently employed at TU Graz as a University Project Assistant and Coordinator for hail defence operations. I analysed various dataset of radar, satellite, and hail event and damage information for hail risk assessment. I am actively involved in the development of an integrated visualization system for hail research and operational support. I am working on data fusion and deep learning approaches for hail classification and thunderstorm prediction. I believe that this summer school will provide a great platform to improve my computational skills. I am very keen to participate in Academic Group Projects Session and investigating deep learning approach for hail signal classification. I am requesting subsidies to attend the summer school, as no special funds available in our institute for a training programme.

I am therefore grateful for your consideration of my application, and I would highly welcome the opportunity to participate in ESiWACE Summer School. I look forward to hearing from you.

Sincerely,



Satyanarayana Tani