

To whom it may concern,

My name is Elif Yavuz. I am writing this letter in order to apply for 2020 ESIWACE Summer School. I am a Master's student at Yildiz Technical University, Turkey. I have been working as a research assistant at my university for 10 months. I am involved in air pollution studies. My thesis topic is about modelling of air pollutants. It includes comparison of Eulerian and Lagrangian approaches (AERMOD and CFD). I produce missing meteorological data using WRF-ARW.

After I started working in the university, I took courses on Python, R, and Linux shell scripting. My duties, apart from thesis studies, include regional climate downscaling with RegCM, operating weather forecasting simulations, and regional scale air quality modelling.

As being a young researcher in this field, the scope of the summer school attracted my attention. I believe that the summer school can increase my capability in the modelling applications and provide capacity building. Also, it will provide me the opportunity to introduce with other people who are working in this field.

Especially, machine learning section of the education will provide a background for my PhD thesis since it has a promising future in climate projections. I will have further opportunity to have familiarity with ECMWF data structure and how to use them in my working area.

In the current case, I don't have a fund to attend the summer school. I would like to benefit from subsidence if possible. I am organized, goal-oriented and highly motivated. I would like to thank you for considering my application. I am looking forward to hearing from you.

Sincerely,

Elif Yavuz

The keywords of my project idea includes: machine learning, climate, numerical weather prediction, downscaling, and data mining.