To the Organisers ESiWACE summer school

Motivation letter

Dear Sirs

I would like to apply to participate in the Summer School on Effective HPC for Climate and Weather, which will be held in University of Reading, Whiteknights Campus, Reading, UK, 23-28 August 2020.

My background is Physics with Meteorology profile. In 2018 I graduated as MSc in Sofia University "St. Kliment Ohridski" Faculty of Physics, specialty Meteorology. In February 2019 I was enrolled in a PhD position in the Department Meteorology and Geophysics with thesis focused on climate projections in the Balkan and Black Sea region. I attach also my CV, as well as my academic record, as requested.

I am really excited about the opportunity to participate in the ESiWACE; from what I have read in the preliminary agenda the lectures and student practice seem to fit very well my interests and research area.

First, I want to develop my skills in computing and programming and I would welcome the opportunity to work with the experts of The Centre of Excellence in Simulation of Weather and Climate in Europe of University of Reading and learn more about effective use of HPC environments. Second, I am interested in gaining a better understanding about processes and dynamics of the natural Earth system, because I believe it would help me to understand better changes in climate and human influence on it. As you can see from my CV, I work at present on evaluating the impact of climate change in the Balkan Peninsula and Black sea region using data from different scenarios in greenhouse gasses emissions.

I am eager to contribute to this summer school and learn because your university has a long history, and the opportunity to work with such a respected university would be invaluable to me and I am really enthusiastic about gaining the experience that this school provides.

My plans after finishing the Summer school are: 1) to organize a seminar for the PhD students in the Department of Meteorology and Geophysics presenting the essence of the lectures during the summer school; 2) to develop practical exercises for the undergraduate and graduate students to be included in the university course Physics of Climate.

I would like to propose an idea for the Academic Group Projects: A tool to find correlation between different 3D fields.

Thank you for taking the time to read my application. I look forward to hearing from you soon.

Yours sincerely,

Mirna Matov