

# Report on the EMS Annual Meeting 2021

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First of all, I would like to thank the European Meteorological Society for awarding me with the Young Scientist Conference Award (YSCA), and therefore giving me the opportunity to attend and participate in the congress. This recognition will undoubtedly be of great help to me in my future scientific career.

As a first year PhD student who had only participated in one scientific congress before, the experience has been enriching. Despite having to take place online due to the COVID-19 pandemic, I have been able to learn first-hand about the topics that are currently being researched in the climate science community. The online format with short talks allows us to attend and learn about the work of many scientists in only one week. Nevertheless, if the pandemic situation continues, I believe that improvements could be made to the online format. For example, the inclusion of breakout rooms could increase the interactions between participants in each session. The experience gained during this medical crisis could allow us to move towards a mixed congress model in which participation can be both face-to-face and online, which will reduce the number of trips and therefore our carbon footprint with the benefits that this brings to the problem of climate change.

The title of my lightning talk was “A spectral analysis of near-surface wind speed and possible sources of predictability in the Iberian Peninsula” and it was included in the UP3.1 “Climate change detection, assessment of trends, variability and extremes” session. In this work we try to estimate and characterize the power spectral density of near-surface wind speed and wind gusts in the Iberian Peninsula. In addition, using the wavelet transform, mainly through wavelet coherence and cross-wavelet transform, we try to determine possible sources of predictability for these variables in the medium-long term. Furthermore, I prepared a short video for the PSE3 session “Serving society – furthering science – developing applications: Meet our awardees - part I” in which I tried to show how my research could be useful to society given its application in agriculture, air quality, wind energy production, among many others.

Thanks to the congress I have been able to receive feedback on my work through very interesting questions that have allowed me to take other points of view when approaching the analysis of my results. I have also been able to get in contact with colleagues who are trying to answer the same scientific questions as me, so I have been able to learn about their work and gain knowledge in my field.

Overall, EMS2021 was almost perfectly organised and it has definitely been a very positive experience for me. I am very grateful to the EMS scientific committee for recognizing my research, as well as to the Climate, Atmosphere and Ocean Laboratory (Climatoc-Lab) for supporting my nomination for this award. I hope to be able to participate in the next annual meetings of the EMS and to attend in person so that I can enjoy the experience to the fullest.