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Data Science and Statistics Webinar

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Perspectives from an unwilling data scientist
February 9th| 14:30 | Susana Barbosa

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ABSTRACT
In this talk I will share my perspective on both basic concepts and practical aspects of getting information from data, aka data science practice. In terms of concepts I will address the subtleties of prediction, explanation and understanding, particularly in the context of time series. Based on my experience with environmental data and field campaigns, I will discuss data collection and data management features and its relevance in terms of rational use of resources and greener computing. I will also outline future opportunities and challenges in exploring the complementary nature of AI-based and physical-based modeling for the study of complex systems, such as the earth system. Finally I will discuss the postnormal stage of data science and its implications, particularly the need of transparent, open, and explainable data science.

SPEAKER
Susana Barbosa is a senior researcher at INESC TEC (Porto, Portugal) working as a data scientist at the interface of data science, earth system science, and robotics. She has a degree in Physics/Applied Mathematics (Astronomy), a master degree in Computational methods, and a PhD in Surveying Engineering from the University of Porto. Her research is highly interdisciplinary, with a strong emphasis on the analysis of time series in the scope of climate and earth system science. Her current research interests focus on data management and novel environmental monitoring for the study of space-earth interactions.