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STATISTICAL LEARNING FOR DRIVERS OF MODERATE AND EXTREME RAINFALL

December 15th| 14:30 | Soraia Pereira

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ABSTRACT

Madeira has suffered a variety of extreme rainfall events over the last two centuries, including the flash floods of October 1803 (800–1000 casualties) and those of February 2010—the latter with a death toll of 45 people and with an estimated damage of 1.4 billion Euro. But what are the drivers of moderate and extreme rainfall in Madeira? In this talk I will devise a methodology for assessing this question, by resorting to tools, methods, and concepts at the interface between Statistical Learning and Statistics of Extremes. Our proposed model allows to identify which drivers are significant to explain the moderate rainfall but not to explain the extreme rainfall and viceversa.

SPEAKER

Soraia Pereira obtained her PhD degree in Statistics from the Faculty of Sciences, University of Lisbon, in 2018. She has coauthored 5 publications including in Spatial Statistics and REVSTAT. Soraia is a postdoctoral fellow at Centre of Statistics and its Applications (CEAUL). Her current research focuses on spatial modelling and extremes.