

DSS Statistics Seminar  
PhD program in Statistics

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Does wind shape vegetation  
stripes? A copula-based mixture  
model for axial and circular data

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6th DECEMBER 2024  
12.00 pm  
ROOM 34  
BUILDING CU002, FLOOR 04



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**Speaker**

Marco Mingione

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Motivated by a case study of vegetation patterns, we introduce a mixture model with concomitant variables to examine the association between the orientation of vegetation stripes and wind direction.

The proposal uses a novel copula-based bivariate distribution for mixed axial and circular observations.

It provides a parsimonious and computationally tractable approach to examining the dependence of two environmental variables observed in a complex manifold.

Joint work with Francesco Lagona, RomaTRE University



Participate with zoom

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