

## **Tourism expenditure analysis using vines copulas: the case of Fribourg**

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This study models the joint distribution of tourism expenditure disaggregated by category simultaneously with a set of covariates associated with the tourist trip (i.e. destination, length of stay, season, etc.).

The dependence structure, among all variables, is established by means of a family of paired copulas (regular vines), which allows fitting a high-dimensional multivariate statistical model.

The empirical results provide different examples of the usefulness of the model in answering different questions. In particular, the study shows that the key variables to understand the associations between them are the destination in the region and the place of origin of the tourist.

**Key words:** Tourism expenditure, vines, Fribourg