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**Title:** "Multivariate Portfolio Choice via Quantiles"

**Abstract**

We first show how the quantile approach used for univariate optimal portfolio choice can be also useful to solve the multivariate case. Specifically, when the multivariate risk sharing problem (in the absence of a financial market) can be solved explicitly, the multivariate optimal portfolio choice reduces to a one-dimensional problem using the quantile approach. In the general case, we develop a numerical approach to obtain approximate solutions for the multivariate optimal portfolio selection problem.

This is joint work with Andrea Perchiazzo and Steven Vanduffel.