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# The peer performance ratios of hedge funds<sup>☆</sup>

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## Abstract

We define the outperformance (resp. underperformance) of an investment fund as the percentage of funds in the peer universe for which the *true* performance of the focal fund is higher (resp. lower). We show that the  $p$ -values of the pairwise tests of equal performance can be used to obtain estimates of the out- and underperformance ratio that are robust to false discoveries – estimated alpha differentials for which the significance test has a low  $p$ -value while the true alpha is identical. When applied to hedge funds, we find that ranking funds on the outperformance ratio leads to a top quintile portfolio with a higher absolute and risk-adjusted performance than when the estimated alpha is used.

*Keywords:* False discoveries, hedge fund, multiple hypothesis testing, peer performance, performance measurement

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