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Return Dispersion and Active Management

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Pages 29-42 | Published online: 02 Jan 2019

Cite this article <https://doi.org/10.2469/faj.v57.n5.2479>

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Abstract

The cross-sectional variation of U.S. stock returns has been unusually high in the past few years. This paper examines the role of return dispersion in the cross-section of stock returns and its impact on the performance of active managers.

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the costs of active management. We show that as return dispersion increases, the percentage of outperformers also increases.

Perhaps the most important implication of intertemporal variation in return dispersion is in the area of individual-fund performance measurement. During a year with marketwide fund dispersion of 5 percent, a positive alpha (return in excess of the benchmark) of 10 percentage points is a significant achievement. In a year when fund dispersion is 20 percent, a 10 percentage point alpha means a lot less. Averaging alphas over time without consideration for intertemporal variations in dispersion can lead to a material misstatement of relative performance.

We show how performance benchmarking can be extended to incorporate the information embedded in return dispersion, as well as information on the benchmark mean, by correcting fund alphas with a period- and asset-class-specific measure of security return dispersion. Weighting alpha observations by the inverse of return dispersion can be characterized as an econometric correction for heteroscedasticity. We argue that multiperiod performance statistics that correct for intertemporal variations in return dispersion are better indicators of managerial talent and may provide improved predictions of future added value. Return dispersion corrections are particularly relevant in the measurement of U.S. equity portfolio performance over the past several years.

We acknowledge the support of the National Science Foundation, which benefited from the research of the McQueen Grant



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