

Accepted Manuscript

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PII: S0304-405X(17)30120-4
DOI: [10.1016/j.jfineco.2017.06.003](https://doi.org/10.1016/j.jfineco.2017.06.003)
Reference: FINEC 2779

To appear in: *Journal of Financial Economics*

Received date: 21 October 2015
Revised date: 4 August 2016
Accepted date: 2 September 2016

Please cite this article as: Efstathios Avdis, Jessica A. Wachter, Maximum likelihood estimation of the equity premium, *Journal of Financial Economics* (2017), doi: [10.1016/j.jfineco.2017.06.003](https://doi.org/10.1016/j.jfineco.2017.06.003)

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Maximum likelihood estimation of the equity premium *

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May 29, 2017

Abstract

The equity premium — the expected return on the aggregate stock market less the government bill rate — is of central importance to the portfolio allocation of individuals, to the investment decisions of firms, and to model calibration and testing. This quantity is usually estimated from the sample average excess return. We propose an alternative estimator, based on maximum likelihood, that takes into account information contained in dividends and prices. Applied to the postwar sample, our method leads to an economically significant reduction from 6.4% to 5.1%. Simulation results show that our method produces more reliable estimates under a wide range of specifications.

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