

Intermediary asset pricing: New evidence from many asset classes

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Intermediary asset pricing: New evidence from many asset classes<sup>☆</sup>Zhiguo He<sup>a</sup>, Bryan Kelly<sup>a,\*</sup>, Asaf Manela<sup>b</sup><sup>a</sup>University of Chicago, Booth School of Business, and NBER, 5807 S Woodlawn Ave, Chicago, IL 60637, USA<sup>b</sup>Washington University, Olin Business School, One Brookings Dr, St. Louis, MO 63130, USA**Abstract**

We find that shocks to the equity capital ratio of financial intermediaries—*Primary Dealer* counterparties of the New York Federal Reserve—possess significant explanatory power for cross-sectional variation in expected returns. This is true not only for commonly studied equity and government bond market portfolios, but also for other more sophisticated asset classes such as corporate and sovereign bonds, derivatives, commodities, and currencies. Our intermediary capital risk factor is strongly procyclical, implying countercyclical intermediary leverage. The price of risk for intermediary capital shocks is consistently positive and of similar magnitude when estimated separately for individual asset classes, suggesting that financial intermediaries are marginal investors in many markets and hence key to understanding asset prices.

*JEL classification:* G12, G20*Keywords:* Sophisticated asset classes, Primary dealers, Intermediary capital, Leverage cycles**1. Introduction**

Intermediary asset pricing theories offer a new perspective for understanding risk premia. These theories are predicated on the fact that financial intermediaries are in the advantageous position of trading almost all asset classes, anytime and everywhere. For instance, [Siriwardane \(2015\)](#) shows

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