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## Liquidity shocks and stock bubbles<sup>☆</sup>



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### ABSTRACT

This study presents and empirically tests a simple framework that examines the effects of market liquidity (the ease with which stocks are traded) and funding liquidity (the ease with which market participants can obtain funding) on stock market bubbles. Three key findings emerge from this research. First, negative market and funding liquidity shocks increase the probability of stock market bubbles collapsing. Second, market liquidity has a more prevalent effect on stock bubbles than funding liquidity. Third, liquidity shocks provide warning signals of impending bubble collapses. A trading rule based on recursive forecasts from the aforementioned framework is used to illustrate the economic significance of the liquidity–bubble relationship.

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## 1. Introduction

The importance of liquidity risk on stock returns has been highlighted in numerous asset pricing studies. Interest in this topic has risen recently following the subprime mortgage market meltdown of 2008, which saw a significant reduction in market activity. Market liquidity, defined by [Brunnermeier and Pedersen \(2009\)](#) as the ease with which stocks are traded, significantly decreased during this crisis. Also, the crisis in the mortgage market caused large financial institutions such as Lehman Brothers and Merrill Lynch to face financial difficulties, as they were heavily invested in mortgage-related financial products. This led to a credit crunch and it became more difficult for traders to obtain funds. Therefore, funding liquidity, defined as the ease with which traders obtain funds, also worsened in that period. [Brunnermeier \(2009\)](#) documents that as the prices of assets collapsed during the recent crisis, the capital of financial institutions diminished, making banks more cautious in their lending practices, which in turn constrained funds. The decline of market and funding liquidity adversely affected stock returns.

Several empirical and theoretical studies in the asset pricing literature prior to the recent crisis have widely acknowledged the role of liquidity risk on price dynamics of financial assets. The extant literature is vast. Most of the existing works on the relationship between liquidity and the stock market have focused primarily on establishing the effect of liquidity risk

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