

# Do non-banks need access to the lender of last resort? Evidence from mutual fund runs

Johannes Breckenfelder   Niklas Grimm   Marie Hoerova

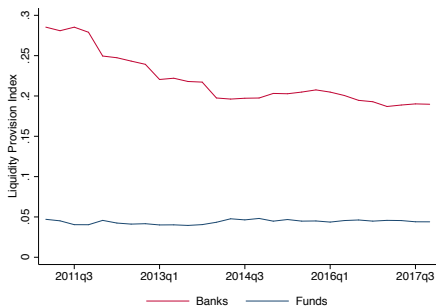
Discussant: Yiming Ma  
(Columbia Business School)

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# Fixed-Income Open-end Mutual Funds

- Have rapidly grown in size
- Issue redeemable shares (liability)
- Invest in corporate and government bonds (assets)
- Have increasingly engaged in liquidity transformation – like banks

Figure: Mutual Fund versus Bank Liquidity Provision



Ma, Xiao and Zeng 20

# Fixed-Income Open-end Mutual Funds

- May suffer from (inefficient) runs (Chen, Goldstein and Jiang 2017) – like banks
  - Share price/NAV does not adjust flexibly with redemption
  - → first-mover advantage to redeem when others are redeeming
- This paper asks the very important question:  
**Do mutual funds need access to the LOLR – like banks?**
  - 1 Announcement of asset purchase increased the maturity of repos that more-liquidity constrained banks lend to funds
  - 2 Funds with higher shares of assets eligible for central bank purchases in their portfolio before the COVID-19 crisis had smaller outflows and better performance

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## **Do mutual funds need access to the LOLR – like banks?**

- 1 Announcement of asset purchase increased the maturity of repos that more-liquidity constrained banks lend to funds
  - 2 Funds with higher shares of assets eligible for central bank purchases in their portfolio before the COVID-19 crisis had smaller outflows and better performance
- Answer:

## **Mutual funds were stabilized without direct access to the LOLR**

**Overall, the paper addresses a very important question. It is carefully executed with a combination of interesting data!**

I mostly have some big picture comments:

- 1 Does bank repo lending to mutual funds mitigate first-mover advantage in fund outflows?
  - Key: Look at the interest rate on repos
- 2 What is the economic significance of collateral?
- 3 What is the channel through which asset purchases stabilized mutual funds?

# 1. Repo Funding Cost and Fund Runs

Recall why there is first-mover advantage in mutual fund outflows

- Investor redemptions cause fund asset liquidations
- Asset liquidations incur fire sale discounts
- Fund NAV adjusts slowly
- → Investors want to front-run before NAV has fully adjusted

The benefits of repo funding

- Fund borrows repo following investor redemptions
- → Avoids asset sales at fire sale prices
- → prevents incentive to front-run
- → Expansion of repo funding can prevent runs

**But what is the cost of repo? It depends on the interest rate!**

# 1. Repo Funding Cost and Fund Runs

## Whether repo funding can mitigate fund runs depends on the interest rate that funds incur

- Suppose funds can borrow repos to meet large investor redemptions during crisis times
- But the repo rate they have to pay is very high/at a penalty rate
  - Dealer bank balance sheet costs (Du, Tepper and Verdelhan 18)
  - Dealer banks have bargaining power in OTC repo markets (Anbil, Anderson and Senyuz 21, Eisenschmidt, Ma and Zhang 21)
- Fund NAV adjusts too slowly to incorporate the penalty repo rate
- → The incentive to front-run before NAV fully adjusts remains!

# 1. Repo Funding Cost and Fund Runs

## **Suggest to include repo interest rates in the analysis!**

- Should be available from the MMSR data
- Has it increased over the Covid-19 period? Has it increased by more for funds who need to borrow more?
- How does it compare to the rate at which funds could potentially borrow from the central bank?
  - E.g. Marginal Lending Facility rate

**Joint analysis of volumes and rate can better address whether funds need access to LOLR to prevent runs**



## 2. Role of Collateral

Everything we have discussed so far applies to secured and unsecured borrowing alike

- Little documentation of secured borrowing by mutual funds
- Chernenko and Sunderam (2016)
  - 60% of mutual fund families have credit lines credit.
  - The median credit facility is less than 0.44% of the fund family assets
- Evidence for the use of secured funding is novel and interesting!  
Could be an important contribution of this paper!

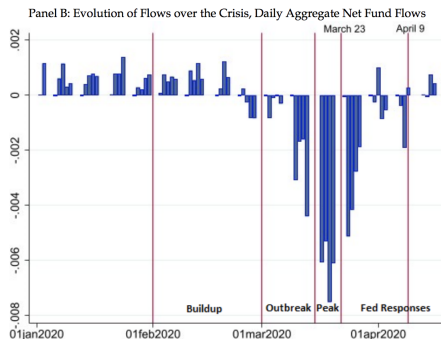
## 2. Role of Collateral

- ① What types of collateral is being used? How does the collateral compare to the fund's asset portfolio?
  - In the case of fire sales, evidence for funds selling most liquid assets first
- ② Variation in the cross-section
  - Which types of funds use repo funding more?
  - How does it relate to the illiquidity of fund assets, *ceteris paribus*?
- ③ Variation in the time-series
  - How does it vary with fund outflows, in general?
  - How does it vary with dealer constraints, e.g. around quarter-ends, ?

### 3. Effect of Asset Purchases

#### What is the channel through which asset purchases affected funds?

- In the US,



Falato, Goldstein and Hortacsu 21

- Expansion of QE using Treasuries → did not appear effective
- Purchase of corporate bonds → appeared effective

### 3. Effect of Asset Purchases

#### **What is the channel through which asset purchases affected funds?**

- ① Which types of funds benefitted more from asset purchases? What type of exposures had a larger effect?
  - Purchase of funds' "liquid asset buffers" may help reduce fire sale discounts incurred during asset sales
  - Purchase of funds' "illiquid assets" may curb outflows from the outset
- ② How much was the direct impact through raising asset prices versus the indirect impact through alleviating fund outflows?
  - Run-like fund outflows are inefficient and should be curbed
  - Direct price impact on asset valuations may be less ideal

- Important topic + Novel data + interesting results
  - Convincingly show that mutual funds did not need direct LOLR access to be stabilized during the Covid-19 crisis
- Suggest to
  - 1 Examine repo rates → penalty rates could contribute to runs
  - 2 Explore economic significance and variation in collateral used
  - 3 Look into how asset purchases affected fund performance
- → Should mutual funds have direct access to the LOLR?