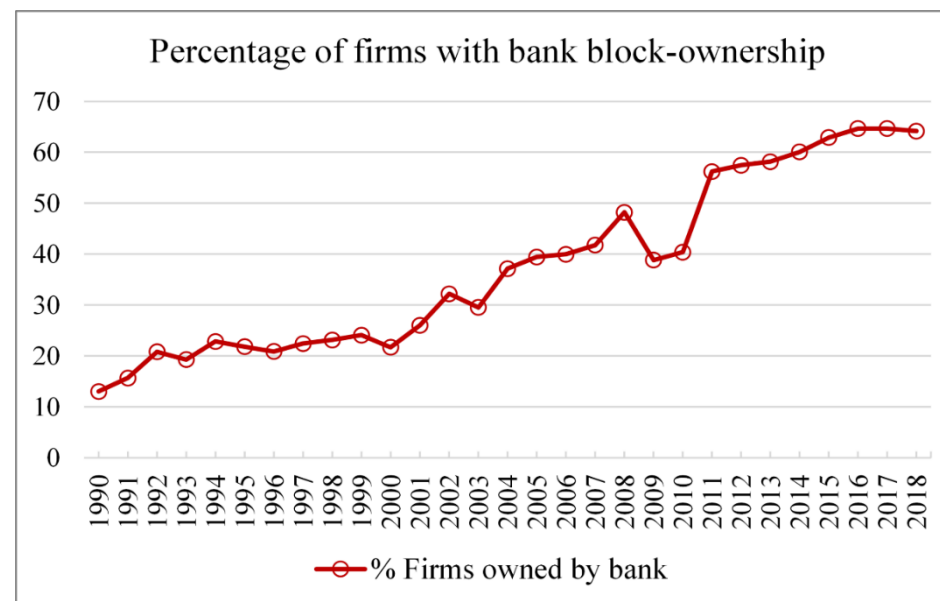


Abstract

This paper studies how bank ownership of industrial firms affects their markups. We find that bank ownership increases firms' markups, while bank ownership of industry rivals reduces firms' markups. Using bank mergers that generate exogenous shocks to bank ownership of industry rivals, we employ a difference-in-differences analysis to establish causality inference. For the affected firms, their costs of loans increase, and the adverse effect on markups is stronger for competitive industries, R&D intensive firms, and when banks have more proprietary information of firms. Our mechanism analysis shows that banks utilize their financing and information advantage to realize their impact.

A fact of bank ownership



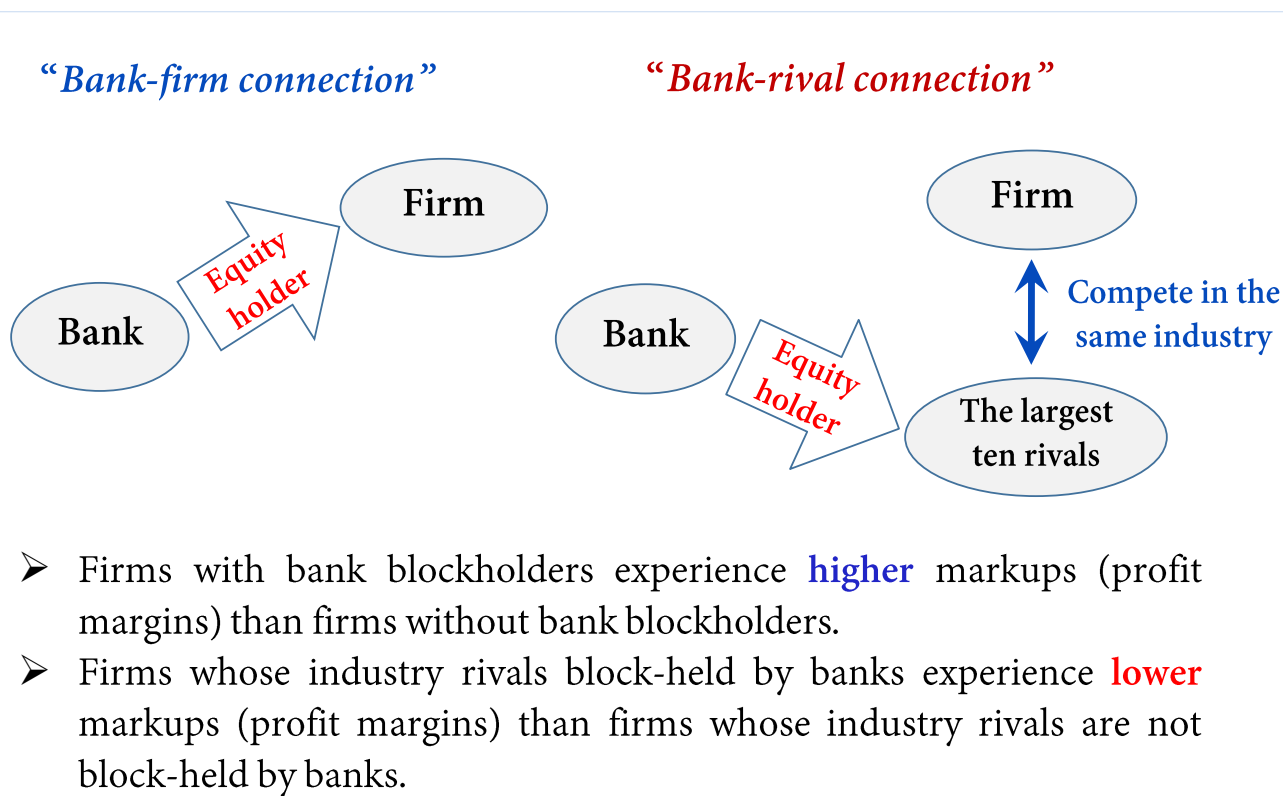
Debates: how banks shape competition

- ❖ Cestone and White (03', JF); Cetorelli (04', JMCB); Cetorelli and Strahan (06', JF)

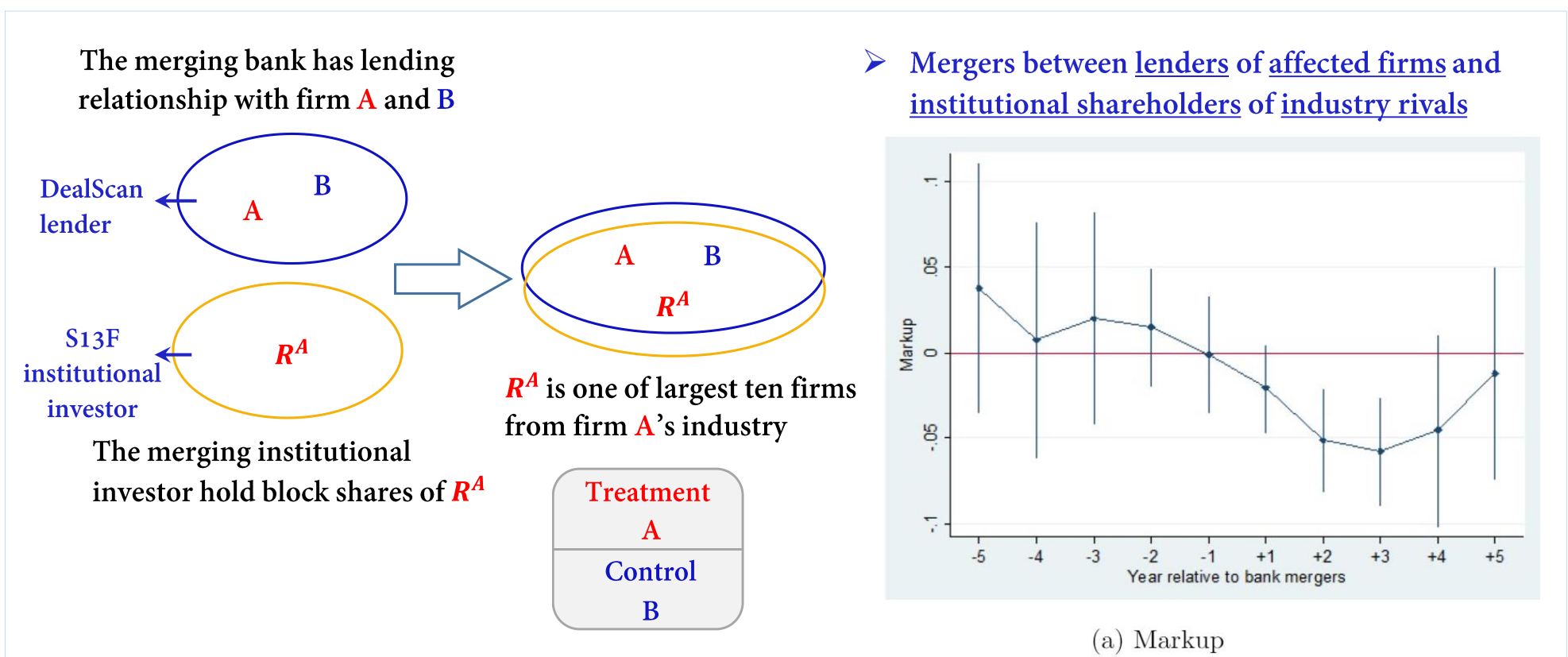
Recently, two papers reawaken this questions:

- ❖ **Common lender could raise anti-competitive concerns**
Saidi and Streitz (21', RFS); De Franco et al. (20', MS)
- ❖ **Common ownership induces less aggressive competition**
Azar et al. (18', JF; 21' FM); Xie and Gerakos (20', AEAPP); Gutiérrez and Philippon (18', AEAPP); Anton et al. (21'), etc.

OLS analysis



Identification + DID analysis



Does banks' incentives matter?

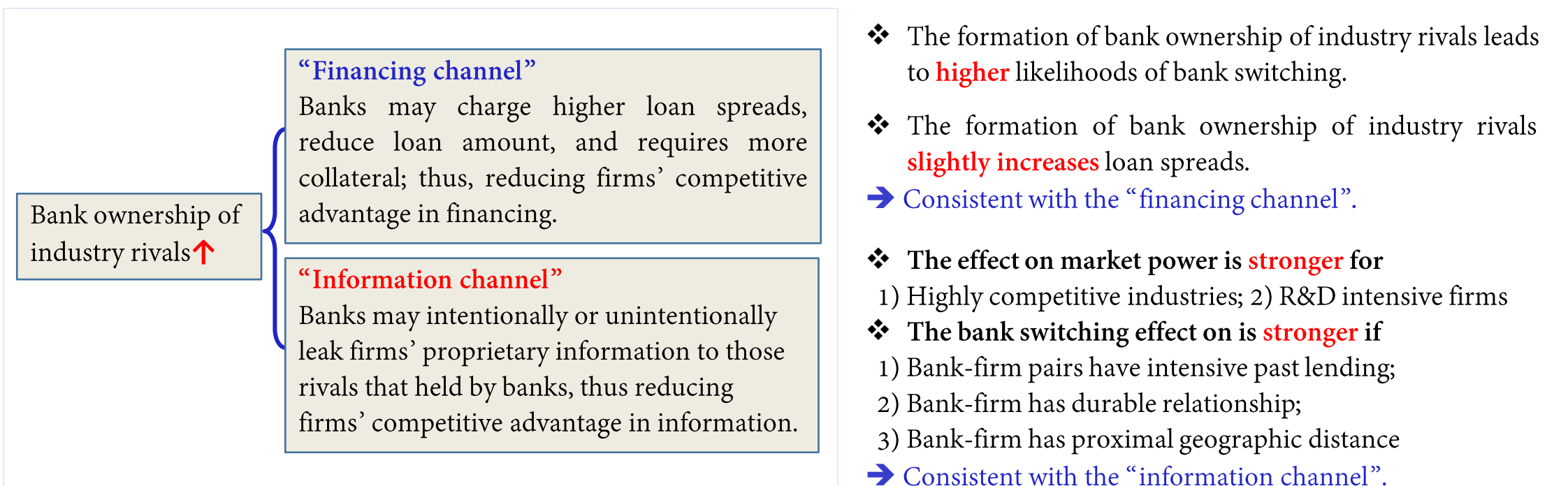
Conjecture 1. As the value of a bank's stock investment in the industry rivals increases, it has a higher incentive to support the industry rivals.

Conjecture 2. If a bank pursues long-term profits in the stock market, it has a higher incentive to support the industry rivals.

Findings:

- ❖ The adverse effect on market power is **stronger** if a bank's investment share in the rivals (measured by the value of the bank's holding of rivals divided by the value of its total stock investment) is above the median.
- ❖ The adverse effect on market power is **stronger** if the bank is a dedicated investor (Bushee (98', 01')).

Two underlying mechanisms



Takeaways

Literature of institutions and competition

- **Bank and competitions:** Cestone and White (03'); Cetorelli (04'); Cetorelli and Strahan (06')
- **Common lenders:** Saidi and Streitz (21'); De Franco et al (20')
- **Common ownership:** Azar et al. (18', 21'); Gutiérrez and Philippon (18'); Anton et al. (21'), etc.

Literature of bank ownership

Firms' performance and valuation (e.g., Gorton and Schmid (00', JFE); Morck et al. (00' JB))
Debt capacity (Santos and Rumble (06'); Santos and Wilson (17'))

Literature of information leakage in financial conglomerates

Acharya and Johnson (07'); Massa and Rehman (08'); Ivashina and Sun (11'); Chen and Martin (11')
Bhattacharya and Chiesa (95'); Asker and Ljungqvist (10'); De Franco et al. (20')

Conclusion

This study explores how bank ownership shapes the competitive strength of firms. Bank ownership of firms could enhance firms' market power. In contrast, bank ownership of the industry rivals could harm firms' market power.

Our mechanism analysis suggests that the *financing channel* and *information channel* are two non-mutually exclusive channels.

Overall, banks ownership of industrial firms induces the reallocation of market power within an industry, thus intensifies concern of unfair competition.