

Discussion of **Bank Market Power and Monetary Policy Transmission: Evidence from Structural Estimation**

Wang, Whited, Wu, and Xiao (2022, JF)

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How does monetary policy affect bank lending?

- ① Reserves channel (Bernanke and Blinder, 1988)
 - higher rates \rightarrow higher reserves cost \rightarrow shrinks (reservable) Deposit
- ② Bank capital channel (Bolton and Freixas, 2000)
 - duration mismatch \rightarrow higher rates \rightarrow reduce scarce equity capital \rightarrow reduce lending
- ③ Deposit channel (Drechsler, Savov, and Schnabl, 2017)
 - banks have market power \rightarrow higher rate \rightarrow keep deposit rate unchanged \rightarrow lower deposit supply \rightarrow lower lending

This paper:

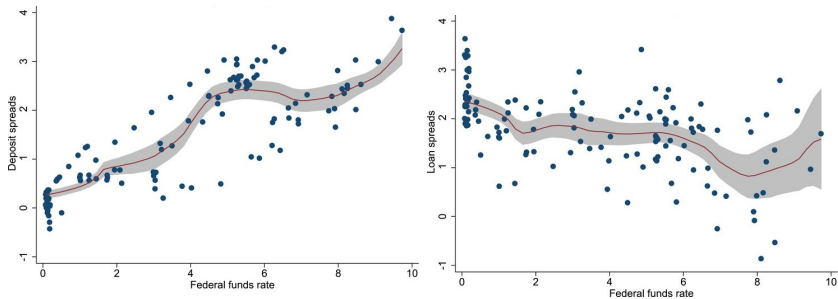
- ① Build and estimate a model with all three channels
- ② **Finding:** Deposit channel is the most important channel, followed by the capital channel, and then the reserves channel

Of course Structural Estimation!

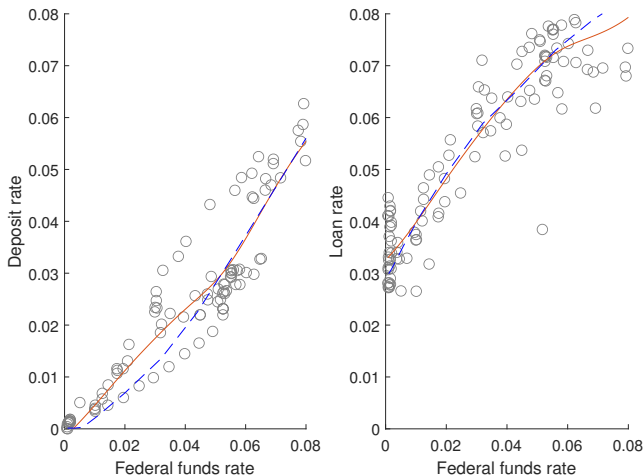
- 1 Estimate deposit and loan demand curves using BLP framework (Berry, Levinsohn, and Pakes, 1995)
- 2 Plug demand curves into a banks' optimization problem (They have 6 representative banks)
- 3 Estimate the model using SMD
- 4 Examine the counterfactual by removing each channel

- ① **Missing channel**
- ② **External validity**
- ③ **Counterfactuals**

Missing channel

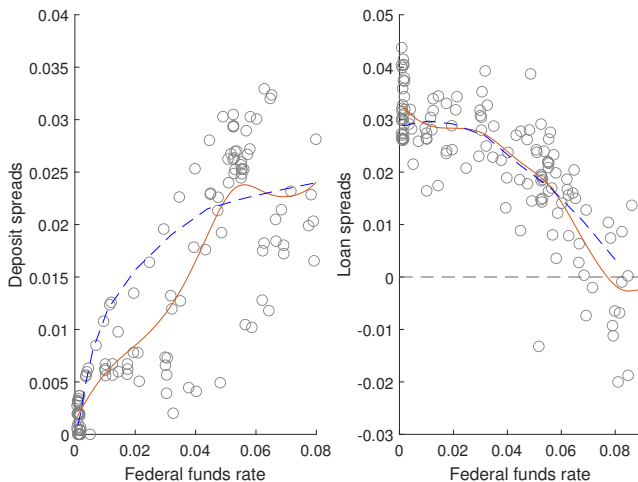


External validity

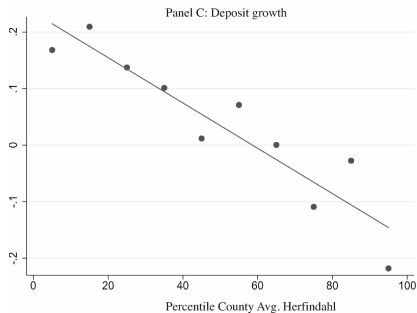
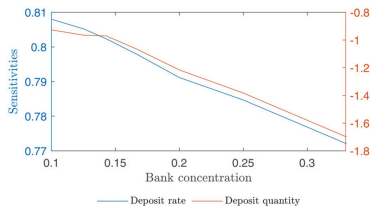


External validity

Replication



External validity



Counterfactuals

	Sensitivity	Change (%)
(1) All frictions	-1.641	-
(2) - Reserve regulation	-1.499	8.65%
(3) - Capital regulation	-1.248	23.91%
(4) - Deposit market power	-1.132	31.00%
(5) - Loan market power	-1.951	-18.91%
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(6) Only Loan market power	-0.913	44.36%
(7) Only Deposit market power	-1.951	-18.88%
(8) No frictions	?	?

- 1 This paper builds and estimates a model with all three channels: deposit, capital, and reserves. And the deposit channel is found to be the most important channel
- 2 The missing channel in this paper is the risk taking behavior of banks, which could be an interesting avenue for future research.
- 3 The external validity of the model is not fully supported by replication results and comparison with other studies.
- 4 The paper needed to provide more details on the counterfactuals. For example, how much of the deposit channel is due to the deposit market power and how much is due to the loan market power?

References I

- Bernanke, Ben S, and Alan S Blinder.** 1988. "Credit, money, and aggregate demand."
- Berry, Steven, James Levinsohn, and Ariel Pakes.** 1995. "Automobile Prices in Market Equilibrium." *Econometrica*, 63(4): 841–890.
- Bolton, Patrick, and Xavier Freixas.** 2000. "Equity, bonds, and bank debt: Capital structure and financial market equilibrium under asymmetric information." *Journal of Political Economy*, 108(2): 324–351.
- Drechsler, Itamar, Alexi Savov, and Philipp Schnabl.** 2017. "The deposits channel of monetary policy." *The Quarterly Journal of Economics*, 132(4): 1819–1876.