Can Technology Undermine Macroprudential Regulation? Evidence from Peer-to-Peer Credit in China

Discussion by

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Main findings



Paper examines

- » The effect of LTV limits on P2P lending in China
- » Identification strategy exploits differentiated LTV limits across cities in China
 - » Tier 1 and Tier 2 cities introduced lower LTV limits in 2013

Main results

- » LTV limits increase P2P lending
- » A 10 percentage point reduction in the LTV limit from 70% to 60% increases P2P applications by 10.5% and loan volumes by 6.6% per month
- » No effect on house price growth or P2P loan terms

Contribution & prior literature CBS M COPENHAGEN BUSINESS SCHOO



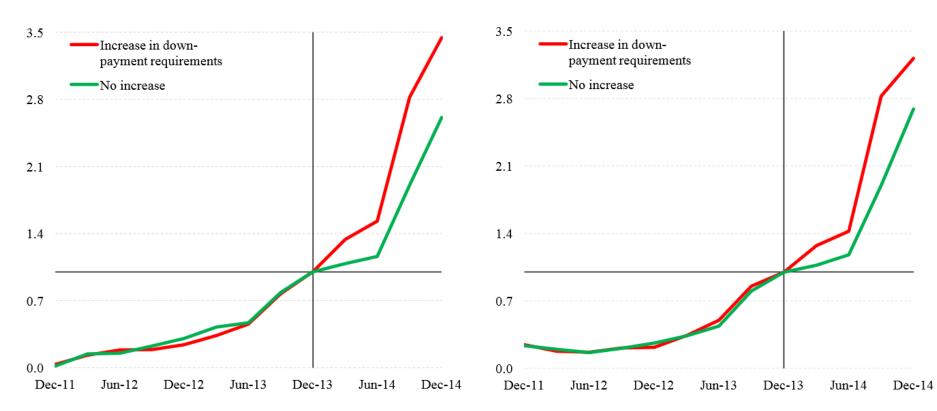
• Estimates the effect of LTV limits on P2P lending

• Main issue

- LTV limits affect the fraction of the house value that can be financed by a mortgage
- Reducing the LTV limit from 70% to 60% increases the need for other sources of financing (equity or bank loans) from 30% to 40%
- Effect of LTV limits might be undermined by household savings or ability to borrow from banks, family & friends or peers
- P2P loans might increase because house owners ability to finance consumptions through their mortgages is affected by the reform
- What is the role of "technology"?
 - P2P lending is an additional source of debt financing
 - But, market is small relative to traditional banking or household savings (particularly in China)

Identification strategy





A. RMB volumes

B. Number of loans

Comments

Potential challenges for the identification strategy

- Credit supply might drive increase in P2P lending in cities where the LTV limit is reduced from 70% to 60%
- Credit supply channel
 - House price growth is driven by local macro economic conditions
 - House price growth drives macroprudential regulation and result in LTV limits
 - Local macro economic conditions are largely unaffected by LTV limits, thus trends in credit supply might confound the analysis
 - Potential channel:
 - Potential house buyers might delay decision to purchase a house and make their savings available for P2P lending
 - Families of potential house buyers might do the same
 - Past house price growth increases credit supply for existing house owners

Comments



Potential challenges for the identification strategy

- The authors control for the credit supply channel by including lender fixed effects
 - Reduces the magnitude of the estimated effect of LTV limits on P2P lending from 6.6% to 2.5% per month
- Unclear why lender fixed effects would control for the credit supply channel?
 - Lender fixed effect controls for the lenders location
- The credit supply channel is time-varying and potentially affected by the reduction in LTV limits
 - To control for the credit supply effect of lenders, the specification should include lender-time fixed effects

Economic significance



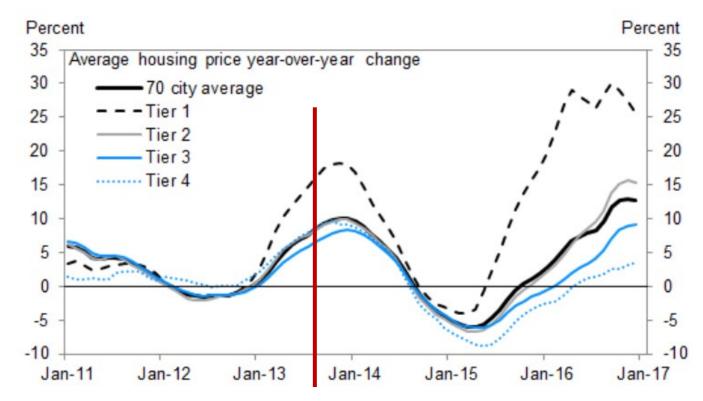
Are the results economically significant?

- P2P lending increases by 2.5% per month after the need for nonmortgage sources of financing increases from 30% to 40% of the house value
- P2P loans have an average size of RMB 59,674 and a maturity of 27 months
 - A 2.5% increase per month in P2P loan size will provide RMB 18,000 of additional financing for house purchases after the reform – for 27 months
- A medium-sized apartment (70 m2) in Shanghai costs RMB 1.8 million, implying that regulation increases the need for financing by RMB 180,000
- P2P lending can account for 10% of the increase in financing need on the short-term
 - P2P loans might be consumption loans (rather than loans to finance house purchase)
 - Increase in P2P loans might have nothing to do with the house market and the effect of macroprudential policies



Comments

Effect of LTV limits on house prices



- Data suggest that there is a large effect of LTV limits in Tier 1 cities, but that Tier 2 cities follow Tier 3 and 4 cities
- A much more careful analysis is needed to conclude that LTV limits do not affect house prices in China

Effects on P2P loans

Pricing and risk of P2P loans

- No effect of increased lending on screening (on-site verification), pricing and duration
- Decline in loan performance in treated cities
 - Delinquency rates increase by 0.9%
 - Default rates increase by 0.9%
 - Effects disappears when controlling for borrower fixed effects
- Main problem with this test is there is no control for the use of the P2P loans
 - Results should condition on loans that are used for financing of house purchases

Conclusion

This study examines how LTV limits affect P2P lending

- » Interpretation:
 - » P2P lending might increase due to LTV limits affecting households ability to finance consumption through their mortgage
 - » Increase in P2P lending does not imply that macroprudential regulation is ineffective
 - » LTV limits might be ineffective in China because of the high savings rate of Chinese households
 - » P2P loans command an interest rate that is significantly higher than the mortgage rate in China, so LTV limits would make financing for houses more expensive
 - » Title is potentially misleading. There is no test of the question posed in the title: "Can technology undermine macroprudential regulation"
- » Good luck ... !