Discussant comments on
The risk-taking channel and monetary transmission mechanism in Colombia
Martha López, Fernando Tenjo and Héctor Zárate

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Discussant*: Tobias Adrian
Affiliation: Federal Reserve Bank of New York
Email: Tobias.Adrian@ny.frb.org.

* These comments reflect the views of the author and not necessarily those of the BIS or of central banks participating in the meeting.
The Risk-Taking Channel and Monetary Transmission Mechanism in Colombia
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Discussion by Tobias Adrian
Federal Reserve Bank of New York

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Overview

- What the paper is doing:
  - Estimate probability of default for bank loans
  - Lower rates are associated with more risky loan issuance
  - …and lower default rates of existing loans
  - Important topic and great data but preliminary results

- What I will discuss
  1. Questions about Regression Outputs
  2. Identification
  3. Exploiting the Cross-Section
  4. Theories of Monetary Policy Transmission
Questions about Regressions

- Why is lagged GDP growth associated with higher hazard?
- And future GDP growth associated with lower hazard?
- Opposite result of interest rate --- are these correlations capturing the same?
- Level of the interest rate --- you want to use changes
- Significance of time trend worrisome .. . there should be time dummies (How does the time trend interact with hazard rate?)
Identification

• Holy grail of monetary transmission literature: separate out demand and supply of credit
  – Credit registry data allow to do so in principle

• The paper estimates how realized credit losses depend on past characteristics of banks, borrowers, and macroeconomy
  – How does monetary policy affect realized future losses?
  – Does not separate demand and supply effect

• Less default of existing loans following lower rates might be due to the improving economic, not due to risk taking of firms (note that signs of GDP are the same)

• Today’s rate changes change expectations about tomorrow’s rates: control for term structure
Exploiting the Cross Section

- Key identification of Jimenez, Ongena, Peydro, Saurina:
  - Triple interaction: do banks that are more afflicted by agency issues (lower capital ratio) lend more to risky firms when short-term rates decline?

- This interaction is exploiting cross sectional variation across firms (capital ratio) and within firms (more or less risky borrowers) and relies only on contemporaneous data

- In contrast, the paper by López, Tenjo, and Zárate really only considers time series variation, not exploiting the richness of the cross sectional data
  - Firm and borrower characteristics are only used as controls, not interactions…does not separate demand & supply

- Suggestion: Follow Jimenez, Ongena, Peydro, Saurina’s methodology more closely (SSRN working paper 1018960)
Theories of the Risk Taking Channel

The dataset provides an opportunity to discriminate among various monetary transmission theories:

- Adrian and Shin (2010): tightness of VaR constraint depends on interest rate
- Dell'Ariccia, Laeven, Marquez (2010): tradeoff between monitoring, risk shifting, and leverage
- Stein (1998): tighter policy shifts adverse selection
- Bernanke Blinder (1988, 1992): credit channel
- Bernanke Gertler (1988): balance sheet channel
Conclusion

• Credit registry is a very rich data source that can be exploited to discriminate among various theories

• I would like to know a whole range of elasticities of supply:
  – Relative to risk, rates, liquidity
  – Those can be used in general equilibrium models…for both monetary policy and financial stability

• The current version of the paper does not identify these elasticities
  – More refined identification is necessary
  – Potential for substantive contribution