Comment on

"International Spillovers and Local Credit Cycles"

by Baskaya, di Giovanni, Kalemli-Ozcan, Ulu

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The views are my own and don't necessarily represent the views of FRBSF, Federal Reserve System or any other individual affiliated with the Federal Reserve

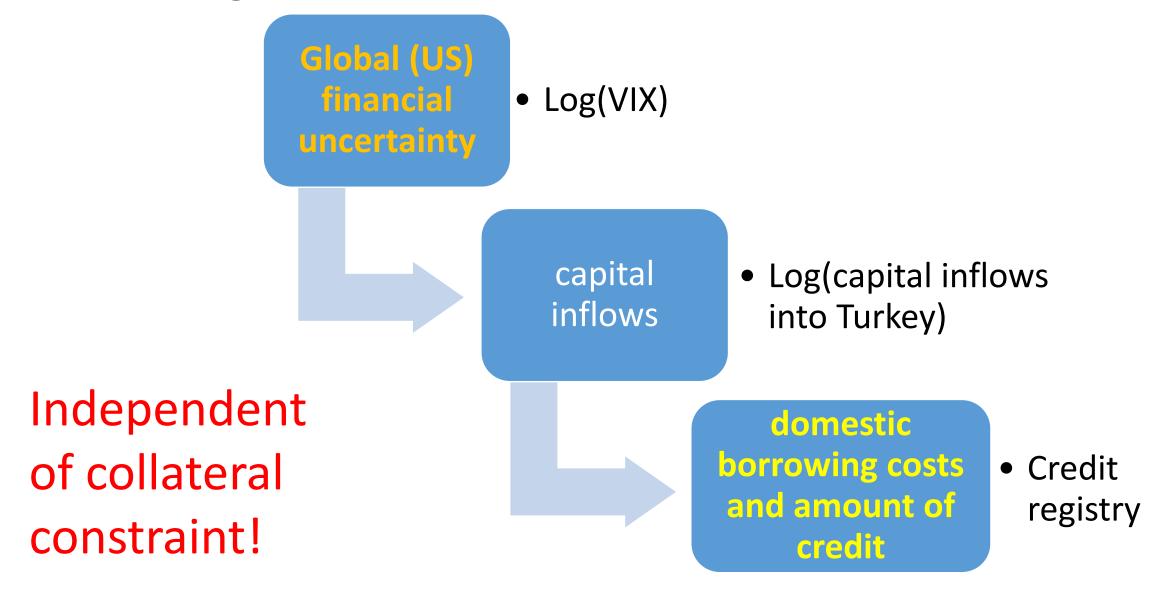
As you would expect, a well executed paper that addresses an important question

- Important question How does global uncertainty affect credit to firms in emerging economies?
 - Speaks to literature on global shock spillovers more generally

High-quality execution

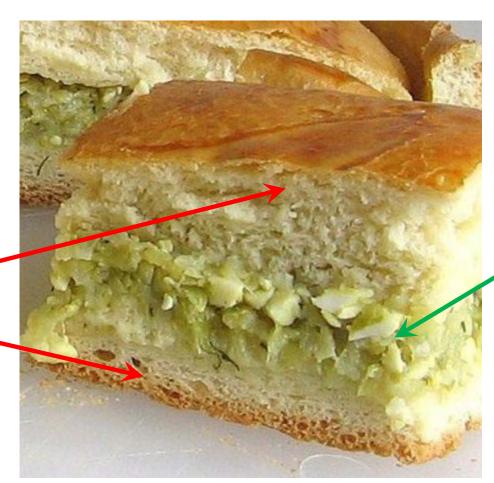
- Firm-bank-loan (including small) data
- ➤ Strong identification through heterogeneity of banks and firms (approach similar to IBRN)

Main findings



Crust is as important as the filling. Also, they need to be well connected

- Conceptual framework .
- Interpretation and conclusions



- Data
- Empirical setup
- Empirical results

PIE CRUST

(For a 9-inch lower crust. Double recipe for two crusts)

1¼ cupfuls Igleheart's Swans ¼ teaspoonful salt

Down Cake Flour 5 (level) tablespoonfuls short-

1/4 teaspoonful baking powder ening

1/4 cupful cold water (about)

Sift together the flour, baking powder, and salt; cut in the shortening, then add water, a little at a time and mix with a knife to a paste of a consistency to clean the mixing bowl of all flour or paste.

"A new international spillover mechanism"

Needs to be better explained:

What mechanism?

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VIX
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-> - country risk premium (in UIP)

New, but not - firm risk premium (idiosyncratic)

well explained -> domestic cost of credit

(tested indirectly Not new -> cost and quantity of loans for firms)

extended to firms
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My "model" of the link VIX -> risk premium on loans

- VIX = volatility (uncertainty) in U.S. equity market
 - > Not price of risk, quantity of risk (more on that later)
- Global banks have trading book and loan book. Risk of trading book increases with VIX
- The VaR constraint => have to reduce risk in loan book
- Reduce lending to riskiest borrowers & increase risk premium on loans => higher costs of credit to local banks
- Local banks reduce supply of loans, especially to riskier borrowers
 - ➤ Additional test of mechanism: is there an increase in excess bond premium (BP)? Will results of IV and reduced form regressions hold for BP instead of VIX?

(See Gilchrist & Zakrajsek, 2012; Moreno & Serena-Garralda, 2018)

Semantics+

- I don't think the presence of risk premium as UIP failure it is evidence of imperfect asset substitutability
- Also, UIP not holding is not arbitrage there is risk involved
- Real interest rates are found to be 8pp higher for lira loans than for foreign loans. Will mean inflation of nearly 9%, this is not evidence of UIP failing, but rather PPP assumption not holding

I know it looks like I am defending the UIP – I am not, I am asking for more careful argument. Also, not central to the paper – less focus on UIP and more on mechanism will help the reader.

 Both global uncertainty and domestic fundamentals can be viewed as credit supply factors (domestic fundamentals determine creditworthiness = > supply)

Crust-filling connection

Is there a culinary term for this?

Conceptual Framework equations can be better connected to regression equations [Take 1]

- Take exact UIP with imperfect asset substitutability (multiplicative risk premium)
- Country level

$$1 + i = (1 + i^*)(1 + \hat{E^e})\rho$$

• Firm level

$$1 + i_f = (1 + i^*)(1 + \hat{E^e}) \rho \rho_f$$

• Logs

$$log(1+i_f) = log(1+i^*) + log(1+\hat{E^e}) + log\rho + log\rho_f$$

What is risk premium?

- Risk premium = quantity of credit risk * price of risk
- Quantity is country- or firm-level variable
- Price of risk is affected by VIX (the "crust part", assume linearly)

• =>
$$\rho = VIX * \alpha$$

$$log(1+i_f) = log(1+i^*) + log(1+\hat{E^e}) + 2logVIX + log\alpha + log\alpha_f$$

- close to what is estimated, but not quite ("2"; no interactions)

Matters for magnitude interpretation

unless
$$\rho = \alpha^{VIX}$$

Conceptual Framework equations can be better connected to regression equations [Take 2]

- Take approximate UIP with imperfect asset substitutability (additive risk premium)
- Country level

$$i = i^* + \hat{E^e} + \rho$$

Firm level

$$i_f = i^* + \hat{E^e} + \rho + \rho_f$$

Logs

$$i_f = i^* + \hat{E^e} + VIX * \alpha + VIX * \alpha_f$$

- Also not exactly what was estimated – no logs, but interactions

FILLING

34 pound cooked and stoned prunes

34 cupful sugar 1 tablespoonful S. D. Cake Flour

1 teaspoonful butter
½ teaspoonful salt
Juice ½ lemon

Prune juice

Identification is good

- I think IV regression is solid
- Heterogeneity allows for sufficient fixed effects to fully control for demand factors
- I find econometric results quite convincing

A few questions/comments

- Most analysis is done for loan volume and borrowing cost as two independent regressions, but the argument is about loan supply – can it be recast in terms of Demand-Supply system and estimated with 3SLS?
 - Firm*time FEs can be demand instruments
 - VIX is already used as supply instrument
- Are there cross-border loans or only local?
- Can you provide more detail on capital inflow variable (also keep its name consistent across tables)?

Summary

- Great paper!
- Highly recommend for everyone to read
- Message can be sharpened