

Discussion of

Determinants of bank profitability in emerging markets

The influence of monetary policy on net interest margins: evidence from Albania

Cédric Tille

Graduate Institute and CEPR

6th annual BCC conference

Coping with spillovers from policy normalization in advanced economies

Geneva, September 27, 2018

The relevance of bank profitability

- Banks are the main intermediaries for financing firms, especially small and medium ones.
- International bank flows – including operations through affiliates – have developed rapidly.
- Profitable banks are necessary to avoid disruptive contraction of credit in recessions.
 - Understanding what drives their profitability, and the role of policy, is a central issue.
- First paper considers the drivers of profitability in a broad sample of emerging economies.
 - Higher short interest rates reduce profits, higher long rates boost them, higher loan growth is associated with high profits.
- Second paper focuses on Albania
 - Short interest rate has a non-linear impact for small banks.

Paper 1: role of loan growth

- Large panel of banks in several emerging countries.
- Regress measure of profitability at t (ROA, ROE, NIM) on:
 - Loan growth at t .
 - GDP growth at t .
 - Interest rates at t .
 - Bank characteristics at t .
- Why not lag some variables, in particular bank characteristics?
- Causal interpretation loan growth (“profitability responds positively to credit growth”) is questionable.
 - Both are endogenous and could reflect third factors (risk on).
 - Large literature points that credit booms often end up badly.
 - Include lags of credit growth.
 - Consider «excess» credit growth (deviation from some trend).

Paper 1: Global factors

- The empirical analysis considers domestic variables.
- But banking activity has become much more global.
 - Prominent role of policy in core countries. Literature on global financial cycle.
 - Strong evidence on role of push factors for large movements in capital flows.
- Include variables capturing the global dimension.
 - US policy interest rate.
 - Vix, broker dealer leverage.
 - Banking capital inflows, possibly fine-tuned by country of origin using rich BIS data.

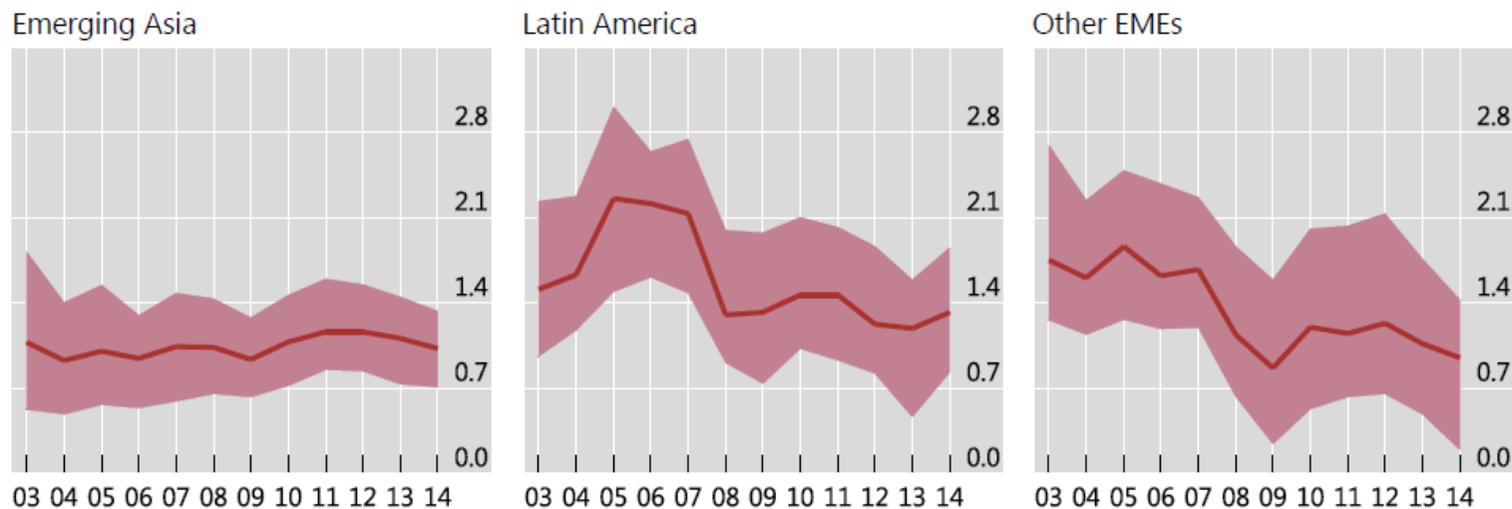
Paper 1: Regional dimension

- ROA quite contrasted by regions (figure 3).

Evolution of ROA by regions

Median and interquartile ranges

Figure 3



- Weak performance in other EMEs, mostly Europe.
- Explore this further.
 - Source countries of international lending: European banks suffered and retrenched more in the crisis.

Paper 2: Model

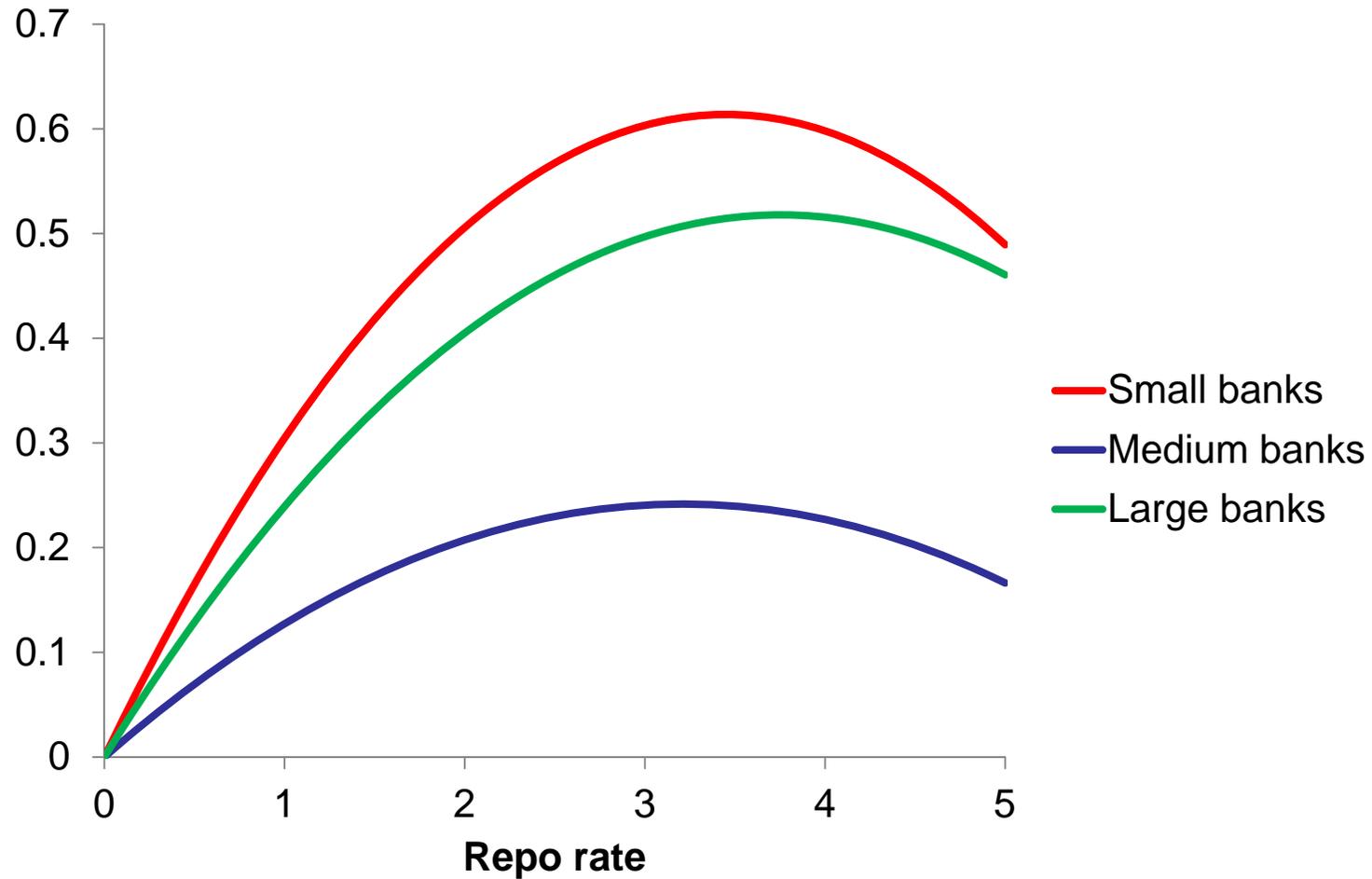
- Equity capital is directly proportional to loans.
 - Higher lending implicitly assumes that new equity is raised.
 - More realistic to have higher lending out of lower position in the money market M .
 - Capital requirements are in terms of assets, not just loans.
- What happens when the number of banks becomes very large?
- Lending and deposit interest rates are identical across banks (function of L not L_i).
 - Allow for different rates across banks, depending on individual bank's lending, not overall.
 - Different elasticities of lending and deposit across banks.
- Instead of N identical banks, consider that there are N_1 small ones and N_2 large ones.
 - Market share of a large is x (>1) times share of a small one.

Paper 2: Focus on quadratic

- Empirical analysis focuses on whether the impact of the policy rate is non-linear.
- The effect of the policy interest rate is often non-significant. At odds with the model.
 - Not surprising given figure 1 (decrease in interest rates) and figure 2 (steady net interest income).
- What are the results if we do not include the quadratic term?
 - Do they match the finding of earlier contributions?
- The impact of the policy rate is quite similar for small and large banks, but only significant for small ones.
 - Suggests that policy rate only matters for low values.
 - Medium sized banks are the one standing out.

Impact of policy rate

$a_1 * \text{Repo} - a_2 * \text{Repo}^2$ (equation 2 in tables 1-3).



Paper 2: Additional variables

- Expand the empirics beyond the net interest margin.
- Components of the margin: lending rate and deposit rate.
- Volumes of lending and deposits.
- Include long interest rates in regression (evidence from paper 1).
- Control for extent of foreign ownership.
 - Are medium and large banks foreign-owned?
 - Relevant funding cost is not the local one but the one in the home country.
- Expand the econometric section and shorten the presentation of the data, focusing on variables that are in the regressions.
 - Charts on maturity structure not needed.