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Bank geographic diversification and financial stability

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Overview

Research Question: How does the geographic diversification of a bank's deposit base affect its funding stability, funding costs, and real economic outcomes?

Key findings

- **Impact of greater geographic diversification**
 - Geographic diversification **reduces deposit volatility** and enhances funding stability
 - Diversification **lowers funding costs** by enabling a shift in liability structure
 - Diversification **boosts liquidity creation, lending, and real economic activity**
- **Economic mechanism**
 - Banks are **less exposed to localized deposit withdrawals shocks**
 - Banks can **reduce reliance on costlier time deposits**
 - More stable funding enables **cheaper and more efficient liability structure**

Contribution

- The paper tackles a central question in banking and financial stability: **how geographic diversification of deposit bases influences funding stability and real economic outcomes**
 - Identifies a distinct channel through which diversification improves funding stability, via lower deposit volatility and liability structure shifts, which had not been emphasized in the literature
 - It is especially timely considering recent banking crises (2023 U.S. bank failures) where unstable deposits played a critical role
- **Significant policy relevance**
 - The analysis informs how branch network structures affect funding stability, which can influence banking regulation and stress testing frameworks
 - Offers insights for bank management on liability strategies and for regulators on deposit insurance design

Contribution

- **Carefully constructed empirical design to address endogeneity**
 - Gravity model predictions use exogenous factors like geographic distance
 - Deregulation indices offer plausibly exogenous shocks to banks' expansion abilities
 - Clear attention to causal inference, not just correlation
- **Extensive robustness checks:** controls for bank characteristics, market power, IT adoption, asset diversification, rate-setting behavior, and macroeconomic volatility; multiple alternative specifications and datasets (e.g., branch-level, bank-county data)

Overall, rigorous and impactful paper that makes a significant and novel contribution to the banking and financial intermediation literature

What is the theoretical mechanism?

- Theoretical narrative is somewhat fragmented—especially how liability-side diversification interacts with bank risk and liquidity creation
- “the same factors that contribute to resilience under certain conditions may function as significant sources of systemic risk under others”, Acemoglu et al., AER 2015
- **Suggestion:** Introduce a conceptual framework or stylized model early in the paper to clearly differentiate the funding stability channel from the asset-side credit risk channel, which dominates prior literature

Trade-Off Between Stability and Liquidity Risk

- Banks substitute time with demand deposits as demand deposits become more stable
 - but this may also increase run risk in extreme conditions
- Broadly, the question is about the cost, in terms of dollar costs and risk, of funding
 - Diversification reduces the risk and allows to shift to more flighty/risky sources of funding at a lower dollar cost
 - But there are several characteristics of the risk distribution that are at play
- **Suggestions**
 - Provide more discussion of this trade-off, maybe also in the context of a model
 - Empirically test whether banks' overall liquidity buffers or capital ratios change with deposit structure shifts

What are the limits of diversification?

- The paper assumes a linear relationship between diversification and outcomes
 - But beyond a point, further diversification may yield diminishing or negative returns (e.g., due to governance frictions)
 - Related additional questions:
 - Why is there heterogeneity across banks in terms of the degree of diversification?
 - Other sources of diversification besides the geography? Corporate vs households, online vs traditional, etc.?
 - Why do some banks diversify their deposit base more than others, in terms of bank business models or strategic choices?
- **Suggestion** Test for nonlinearities (e.g., piecewise linear models or quadratic terms), particularly in:
 - Volatility reduction
 - Funding cost
 - Lending capacity

Policy implications

- Several timely and novel regulatory implications but the paper doesn't develop them fully
- **Suggestion** More explicitly discuss what regulators should do
 - Should they encourage geographic diversification?
 - Should deposit insurance pricing differentiate by diversification?
 - Could be moved into a standalone policy discussion section to enhance clarity