

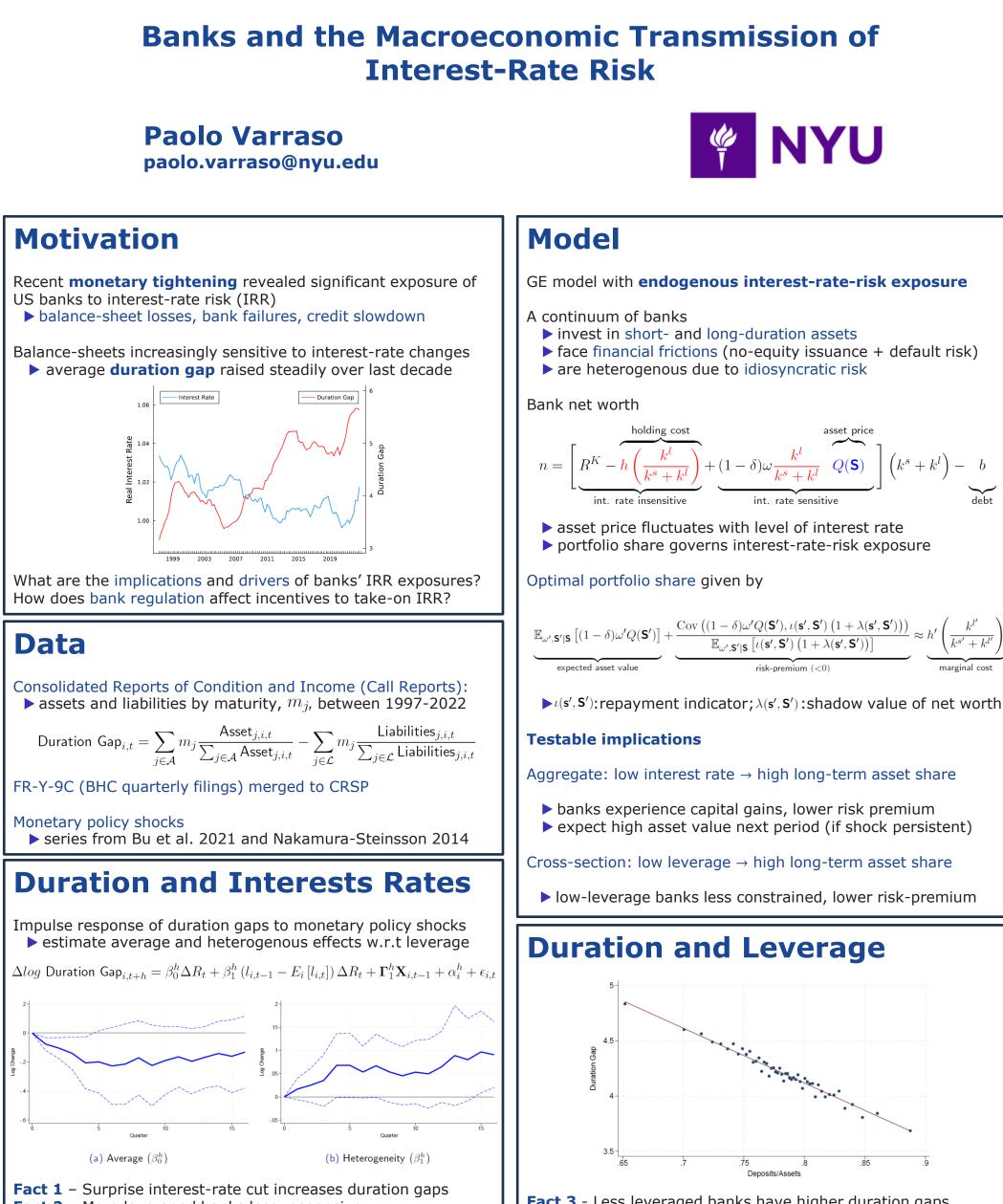


BANKS AND THE MACROECONOMIC TRANSMISSION OF INTEREST-RATE RISK



EUROPEAN CENTRAL BANK

EUROSYSTEM



Fact 2 – More leveraged banks less responsive

Aggregate Implications

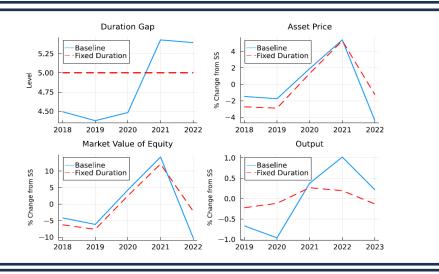
Calibrate model to fit aggregate and cross-sectional banking moments, then feed with sequence of interest rates from data starting in 2003

- reproduce untargeted increase in banks' duration gaps prior to tightening
- generate asset-price contraction in line with empirical counterpart

What is the role of endogenous duration adjustments for macro dynamics?

- compute counterfactual where long-term-asset share kept constant
- account for **30% of asset-price decline** and **40% of equity losses**

Fact 3 - Less leveraged banks have higher duration gaps



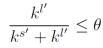
Policy Counterfactuals

Model features inefficiencies:

pecuniary externality + deposit insurance

Use model to conduct two policy counterfactuals

Short-term liquidity requirement



Iimit ability of banks to invest in long-term assets

effective in mitigating effects of interest-rate hike

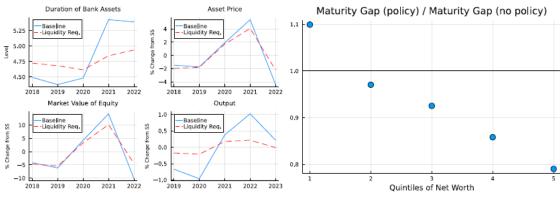
Leverage requirement

 $b' \le \xi \left(k^{s'} + k^{l'} \right)$

- Imit ability of banks to leverage
- worsens impact of tightening by redistributing risk

Heterogenous effects important to understand aggregate impact of policies





Capital Requirement

