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The Labor Market Consequences of Adverse Financial Shocks

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Comments on *The Labor Market Consequences of Adverse Financial Shocks*

Tito Boeri, Pietro Garibaldi and Espen Moen

Discussant: Amartya Lahiri

Jacques Polak Conference 2012, IMF

November 2012

Introduction

- ▶ The Great Recession of 2008-09 started with a financial crisis
- ▶ Existing macro models were found lacking
- ▶ An army of people went to work

Some issues surrounding the financial crisis

- ▶ What caused the financial fragility?
- ▶ What is the transmission mechanism from financial shocks to the real side?
- ▶ Was the crisis related to the pre-crisis boom?

Standard approach to financial frictions

- ▶ Finance flows from households to firms through intermediaries
- ▶ Pre-Great Recession
 - ▶ focus on agency problems between intermediaries and firms
 - ▶ Bernanke-Gertler-Gilchrist, Kiyotaki-Moore, Carlstrom-Fuerst and others
- ▶ Post-Great Recession
 - ▶ focus on agency issues between households and intermediaries
 - ▶ response to the nature of the crisis
 - ▶ Adrian-Shin, Gertler-Kiyotaki, Beaudry-Lahiri and others

Standard approach (cont.)

- ▶ Common feature: formalizing the nature of the key friction
- ▶ Agency cost important for some factor
 - ▶ cost of capital (e.g., Bernanke-Gertler-Gilchrist)
 - ▶ cost of hiring labor (Jermann-Quadrini, Beaudry-Lahiri)
- ▶ Transmission of financial shocks
 - ▶ employment of factor subject to agency cost
 - ▶ all complementary factors also affected

This paper

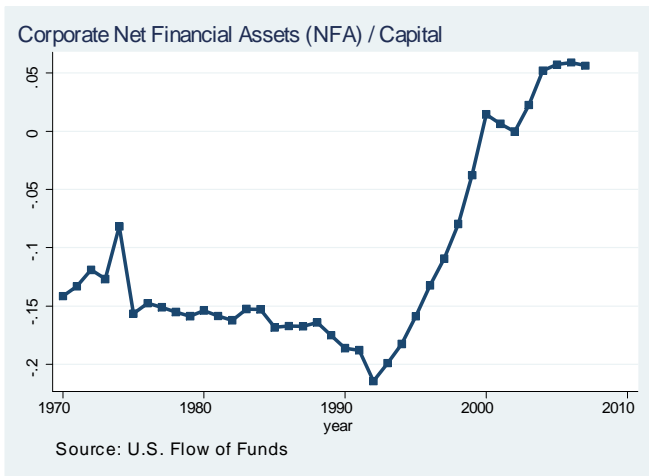
- ▶ Focus on finance and labor markets
- ▶ Story it wants to tell:
 - ▶ deep financial markets lead to more leverage and less buffer stock savings by firms
 - ▶ financial shocks in these markets lead to deep employment cuts by firms
- ▶ Markets with less developed financial markets
 - ▶ less leverage of firms
 - ▶ more buffer stock saving
 - ▶ financial shocks have smaller employment effects

Evidence on basic idea

- ▶ Is there evidence supporting the basic idea?
- ▶ Are firms very liquidity constrained?
- ▶ How large are firm savings?
- ▶ Is there a difference in corporate savings between US-UK and others?

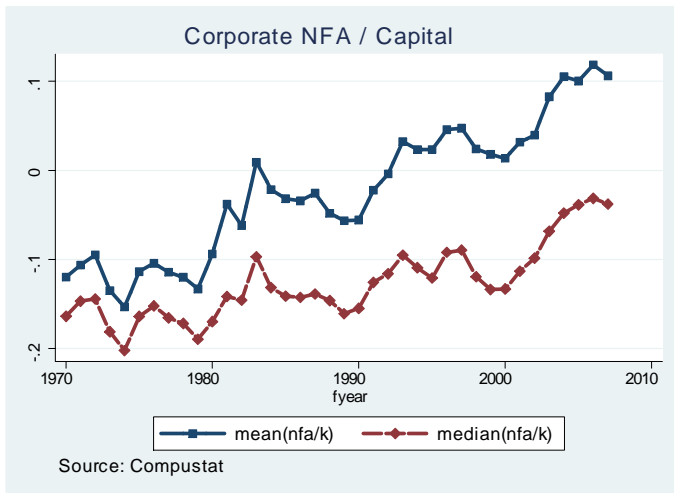
Susceptibility to liquidity shocks

Corporate savings: US flow of funds (Armenter-Hnatkowska 2012)



Firm level savings

Compustat data (Armenter-Hnatkowska 2012)



Implications of this evidence

- ▶ Rising corporate saving over the past 30 years is a global trend
 - ▶ Karabarbounis-Neiman (2012) show it for a sample of 44 countries
- ▶ Raises question regarding how important liquidity shocks are
 - ▶ corporate sector appear to have been self-insuring in the 2000s
- ▶ Maybe small private companies hold less cash
- ▶ Variation in employment changes by size distribution of firms?

What does the paper do

- ▶ Labor search model of matching
- ▶ Firm matches with one worker and borrows to produce output

$$y = \Delta + I^\alpha \quad (\text{normal times})$$

- ▶ Liquidity crisis occur with probability λ_0

$$y = \Delta \quad (\text{liquidity crisis})$$

- ▶ Finance is productive by assumption

Quick comment

- ▶ *Leverage* here is just a label
 - ▶ who produces finance and why is it productive?
 - ▶ what friction is it reflecting?
- ▶ Could re-label leverage as *Energy*
 - ▶ could be any productive input complementary with labor

Results

- ▶ Two equilibria
 - ▶ High credit: borrowing independent of crisis probability
 - ▶ Low credit: borrowing function of crisis probability
- ▶ High credit equilibrium: always destroy jobs during crisis
 - ▶ crisis probability affects both job creation and destruction rates
- ▶ Low credit equilibrium: keep jobs open during crisis
 - ▶ crisis probability affects only job creation rate
- ▶ Additional job destruction margin in high credit zone: bigger effects

Data corroboration 1

- ▶ Cross-Europe firm-level data during the Great Recession
 - ▶ greater leverage was associated with more downsizing
 - ▶ conclude that effect through job destruction
- ▶ Tenuous mapping of data to the model
 - ▶ is leverage important for downsizing firms in normal recessions?
 - ▶ is there variation in responses by country level of financial deepening?
- ▶ Is Europe high or low credit?
 - ▶ implicit idea: US high credit and Europe low credit

Data corroboration 2

- ▶ Cross-country, quarterly, sectoral data from the IMF
- ▶ Some evidence that financial recessions negatively impact sectoral employment growth
- ▶ Effect of financial crisis on sectoral employment growth not dependent on sectoral leverage
- ▶ Tenuous mapping of this to model
 - ▶ Is there a distinction between high and low credit countries?

Overall

- ▶ Important question about finance and employment decisions
- ▶ Needs to take a stance on what friction makes external finance important for firms
- ▶ Needs better mapping of model to the data
- ▶ Model contrasts high and low credit economies
 - ▶ The data used cannot find evidence of this
- ▶ What is a normal recession in the model?
 - ▶ I response to TFP shock in general equilibrium?