# Entrepreneurship and the Economic Crisis

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#### Important Questions

- Who creates jobs?
  - Small vs. large
  - Young vs. old
  - Debt vs. equity financed
  - Cities vs. suburbs, etc, etc
- What jobs?
  - Quality
  - Durability
- Has the financial crisis and recession impacted the "who" and "what"?

# Paper topics/summaries

- Business creation
  - Firm level (Cross-country)
  - Entry rate positively related to country's income and use of credit
- Business creation
  - Individual level (U.S.)
  - Local unemployment is an important predictor, especially for unemployed workers
- Capital structure of young (2004 vintage) firms
  - Firm level (U.S.)
  - Choice of initial capital structure is difficult to predict, but there is convergence toward common structure over time

#### IMPACT OF THE FINANCIAL CRISIS ON NEW FIRM CREATION

# Business creation is correlated with income and credit



Income and credit are also positively correlated

#### Creation rates have slowed since 2006

New firms (corporations) as % of population



## Comments

- Data limitation narrows definition of new businesses to corporations (excludes partnerships, sole proprietors)
  - Fairlie (2010) using a broader definition of business, finds an increase in business creation in U.S. during recessions
- The regression analysis doesn't add much to the charts
  - Pre-crisis trend in entry density was stronger in higher income countries, and then slowed relative to trend
  - Fit seems too good to have really isolated "economic effects"

#### THE GREAT RECESSION AND ENTREPRENEURSHIP

# Definition: Entrepreneurship Rate

- % of pop. that start a business each month
  - Answer yes to the question: "Do you have a business or a farm"? But did not have a business or farm last survey
  - The business is their main job, and at least 15 hrs/wk
- CPS advantages
  - relatively detailed information on business owner
  - covers all forms of businesses (incorporated/unincorporated/employer/nonemployer businesses)
- CPS disadvantages
  - no information on business performance

### Measurement issues

- Entrepreneurship
  - Does not capture business owners who changed from nonbusiness owners to business owners with < 15 hrs/wk.
  - Treats those moving from <15 to > 15 hrs/wk as a new business
  - Reconciling with other measures of business creation?
- Home equity
  - Is local average home prices a good proxy for an individual's home equity?
  - Linking with other micro-data sources?

# Declines in self-employment and establishment births





#### **Entrepreneurs of Necessity?**

Figure 9: Actual and Predicted MSA Entrepreneurship Rates from Local Unemployment Trends Current Population Survey (1996-2009)



### Education



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# Industry/Occupation





Unemployment Gap: Construction vs. Total



 The unemployed have higher business creation rates than employed workers



#### THE DISTRIBUTION AND EVOLUTION OF THE CAPITAL STRUCTURE OF ENTREPRENEURIAL FIRMS

# **Evolution of Capital Structure**



## Comments

- Robb and Robinson (2010):
  - On average, startups rely on formal credit market access even at their earliest stages of life.
  - On average, debt continues to be a primary source of funding throughout the first four years of the firm's life.
- This paper:
  - Finds initial state-dependence, and convergence of capital structures over time
  - can't explain the initial capital structure choice
  - can't find a large 2007/08 effect on convergence
- Is capital structure of non-survivors different?

- Start-up firms do not appear to be affected in the long term if they start in a recession, unless that recession is prolonged.
  - One implication is that cohorts that started right before or at the start of the 2007–09 recession may have worse outcomes relative to firms starting more recently.
    - After Inception: How Enduring is Job Creation by Start-ups? Michael Horrell and Robert Litan, Ewing Marion Kauffman Foundation, July 2010

# Entrepreneurship and the Economic Crisis

## **CPS: Self-employment measures**

"Last week, were you employed by government, by a private company, a nonprofit organization, or were you self-employed (owned a business)?"

Percent

12.0

10.0

8.0

6.0

4.0

2.0

0.0

2008

2006

#### Self-employment rates, by selected characteristics, 2009 annual averages



#### Construction: self-employment rate 18% (unincorporated) v.s 9% (incorporated)

# Self-employed with employees



#### Gender



#### Race





