

# Small vs. Large vs. Young Businesses: Secular and Cyclical Dynamics

January 2013

Remarks by

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Without necessarily implying concurrence, these remarks draw heavily on joint research with Ryan Decker, Teresa Fort, Ron Jarmin and Javier Miranda. The analysis and results presented herein also do not necessarily reflect concurrence by the US Census Bureau. All results have been reviewed to ensure that no confidential information is disclosed.

# Background: Why is it important to distinguish between firm size and firm age?

- Young firms are small (in U.S.) but there are many old, small firms.
- Young firms have high overall rates of net job creation (including contribution of startups)
- Young firms have highest dispersion and skewness in growth rates
  - High growth firms are disproportionately Young firms
- $\frac{3}{4}$  of Gross Job Creation accounted for by startups and high growth firms (that are disproportionately young).
- High growth young firms have above average productivity. Exiting young firms have low productivity. The dynamism of young firms contributes disproportionately to productivity growth.
- In contrast, Old/Small firms have negative net job creation. They disproportionately destroy jobs but don't disproportionately create jobs. Old/small surviving have lower than average productivity.

# Trend and Cyclical Concerns for Young Firms?

- **Secular Trends:**

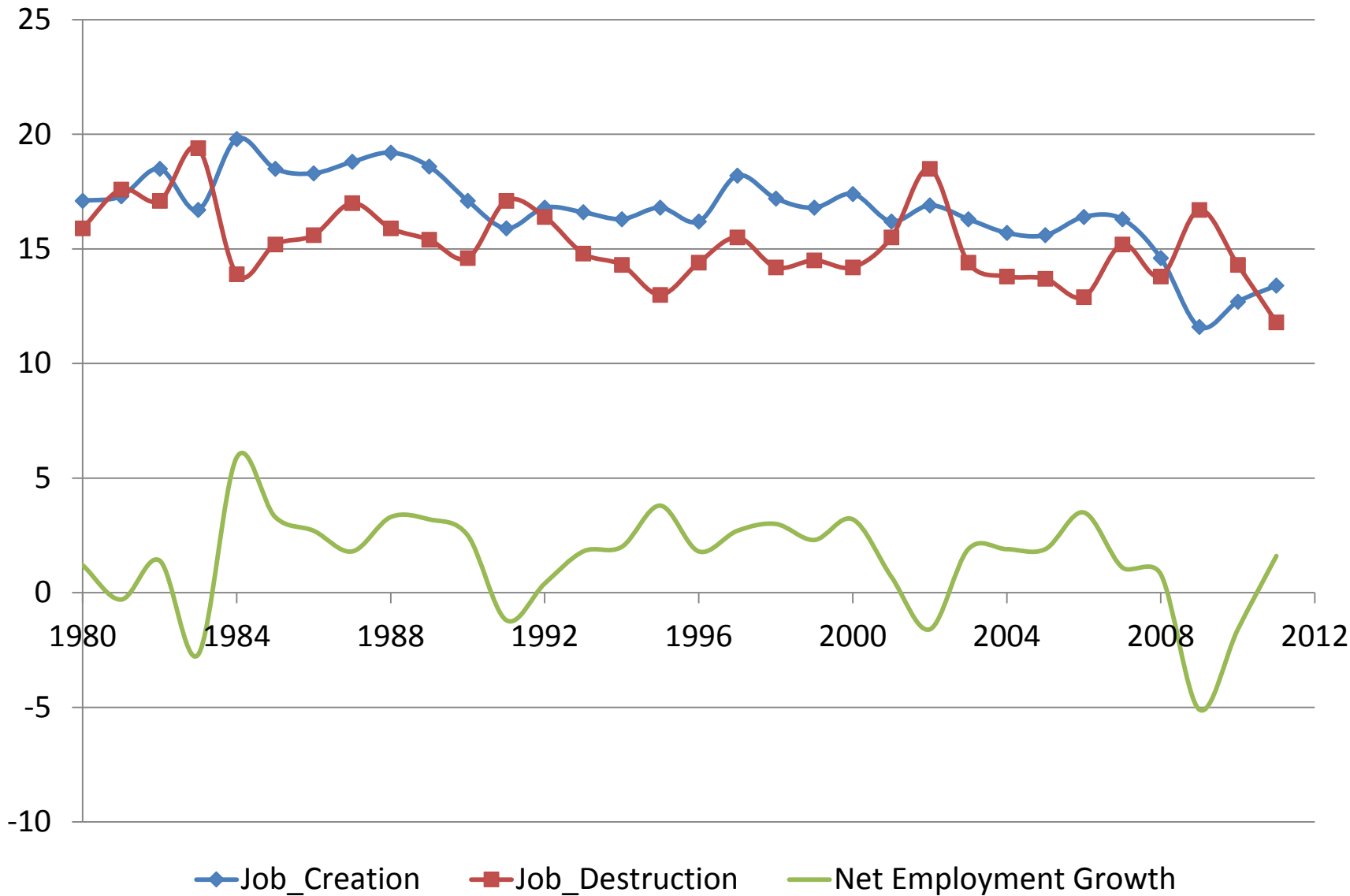
- U.S. has become less dynamic
- Declining pace of Firm Startups
- Shift away from young firms important contributor to the declining dynamism in U.S.
- Why? We don't fully understand this pattern yet (Demographics, Changing Technology, Business Climate)

- **Cyclical:**

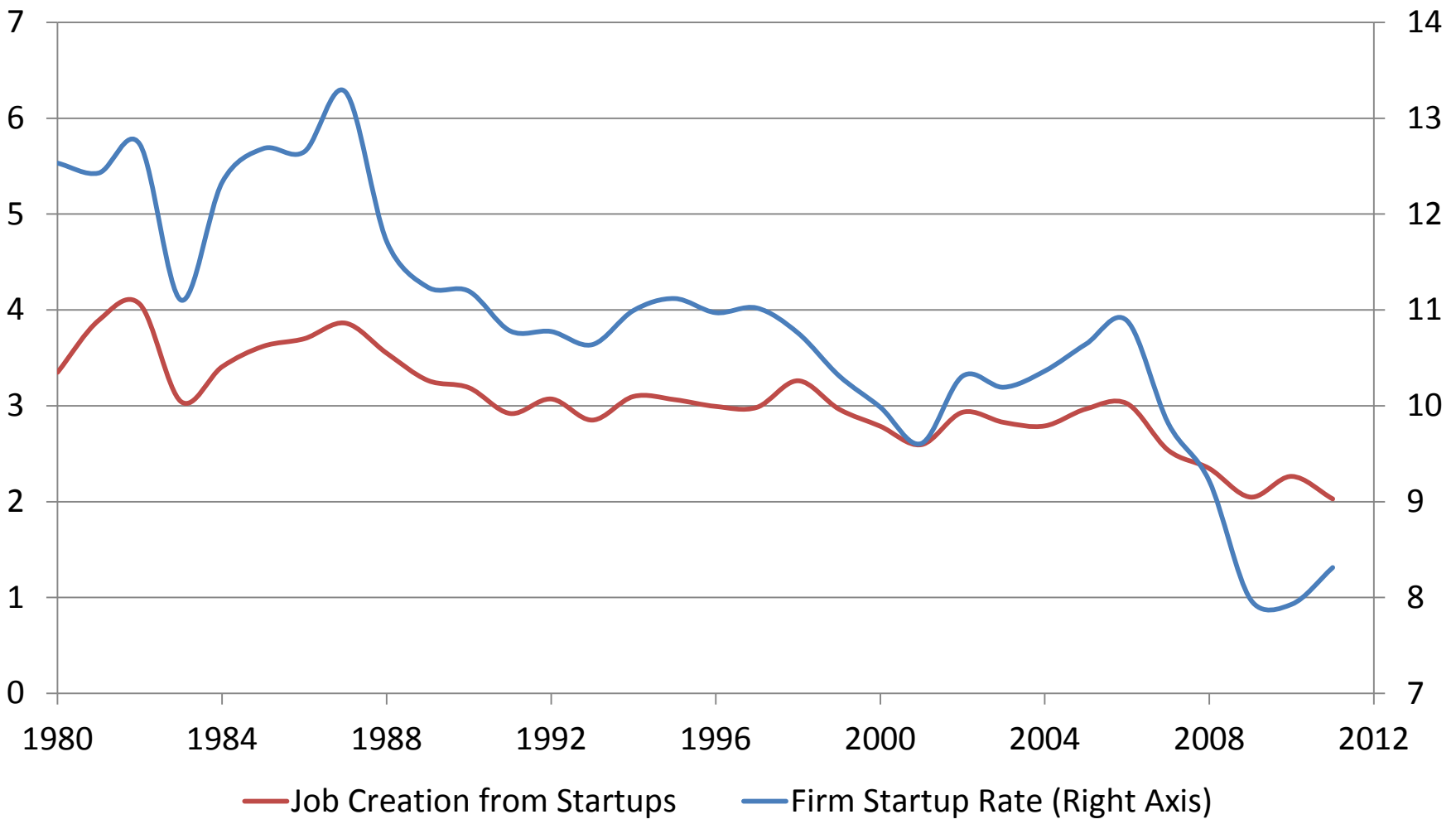
- Young firms (which are small and medium size) hit especially hard in Great Recession.
  - Job Creation from Business Startups 3.5 million in 2006 – less than 2.5 million in 2009, 2010, and 2011. Number of startups fell from 570K to under 400K.
- Why? Collapse of Housing Prices an Important Contributor

# Job Creation and Destruction, U.S. Private Sector, 1980-2011

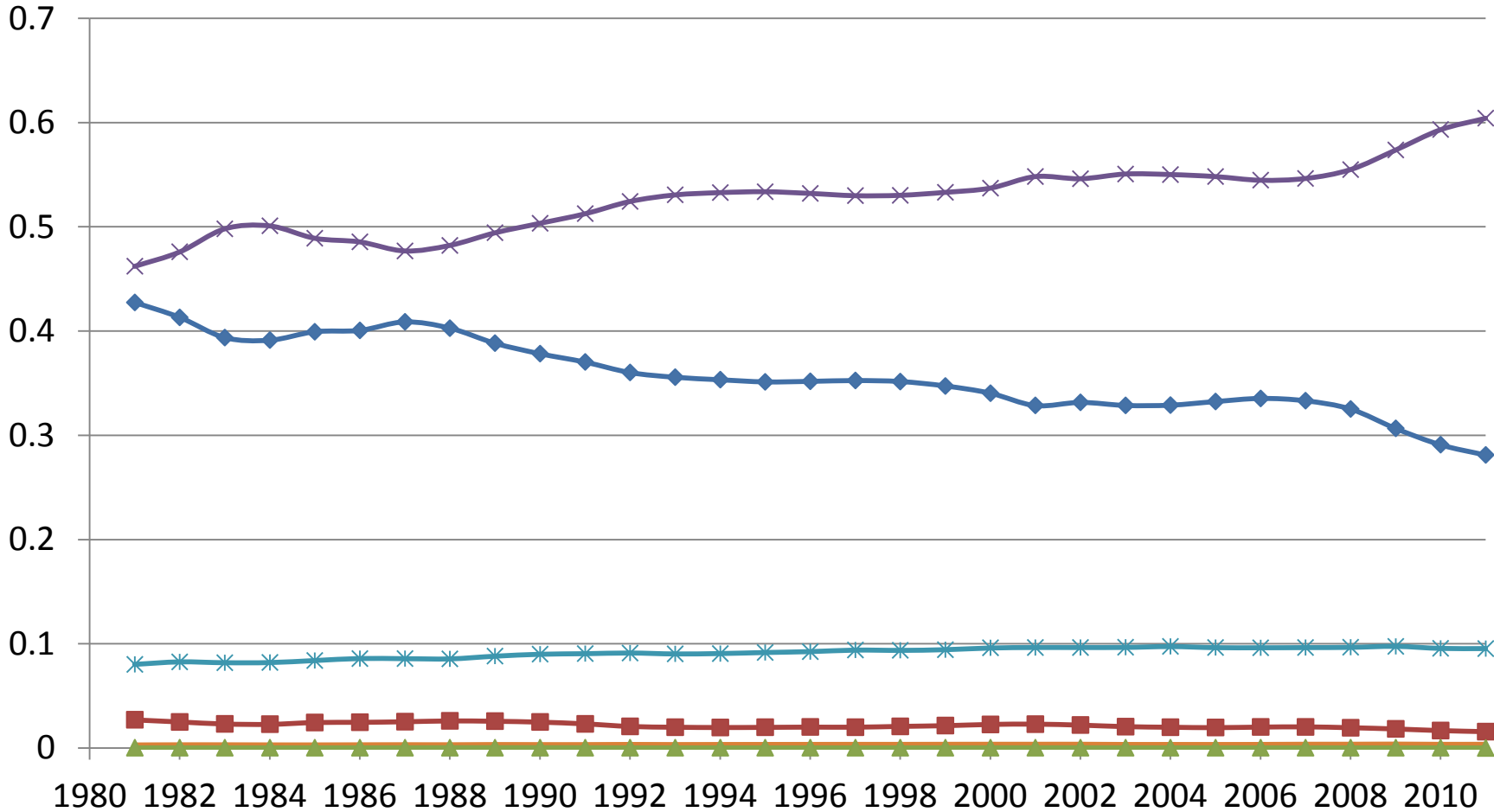
## Census BDS Data



# Job Creation from Startups and Startup Rate, U.S. Private Sector, 1980-2011

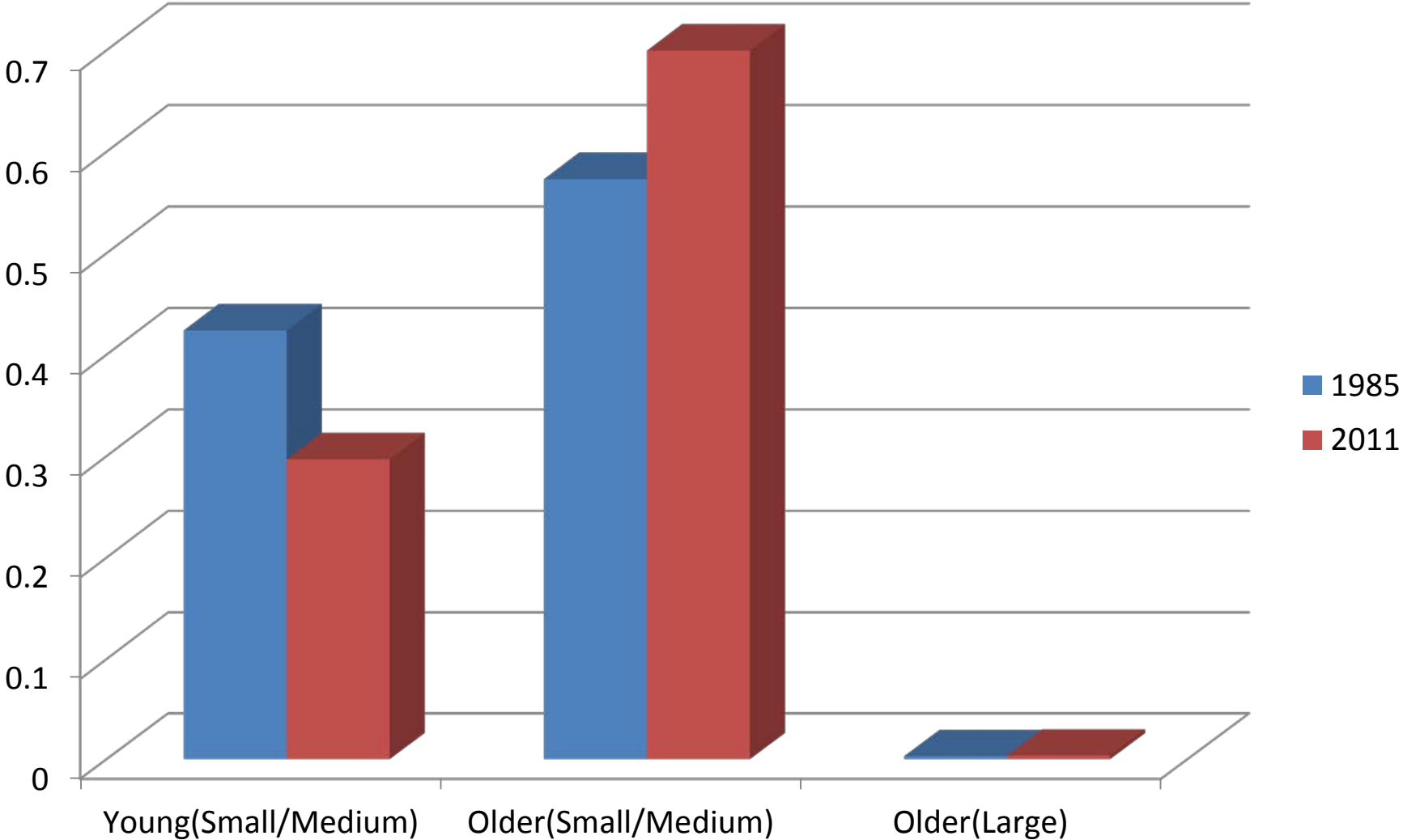


# Share of Firms by Firm Age and Firm Size

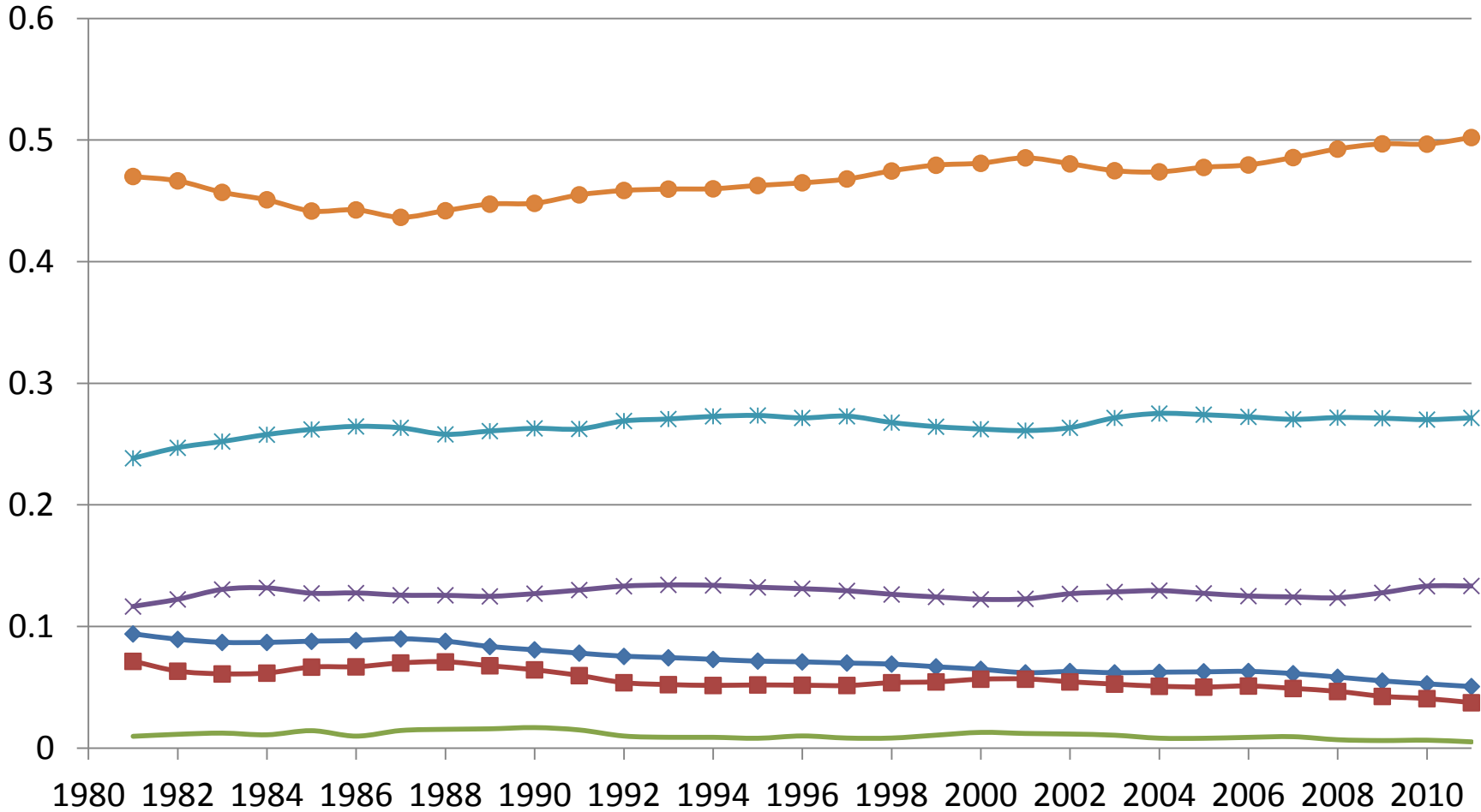


◆ Young, Small ■ Young, Med ✕ Older, Small  
\* Older, Med — Older, Large ▲ Young, Large

# Shares of Firms for Broad Firm Size and Age Classes (1985, 2011)



# Share of Employment by Firm Age and Firm Size

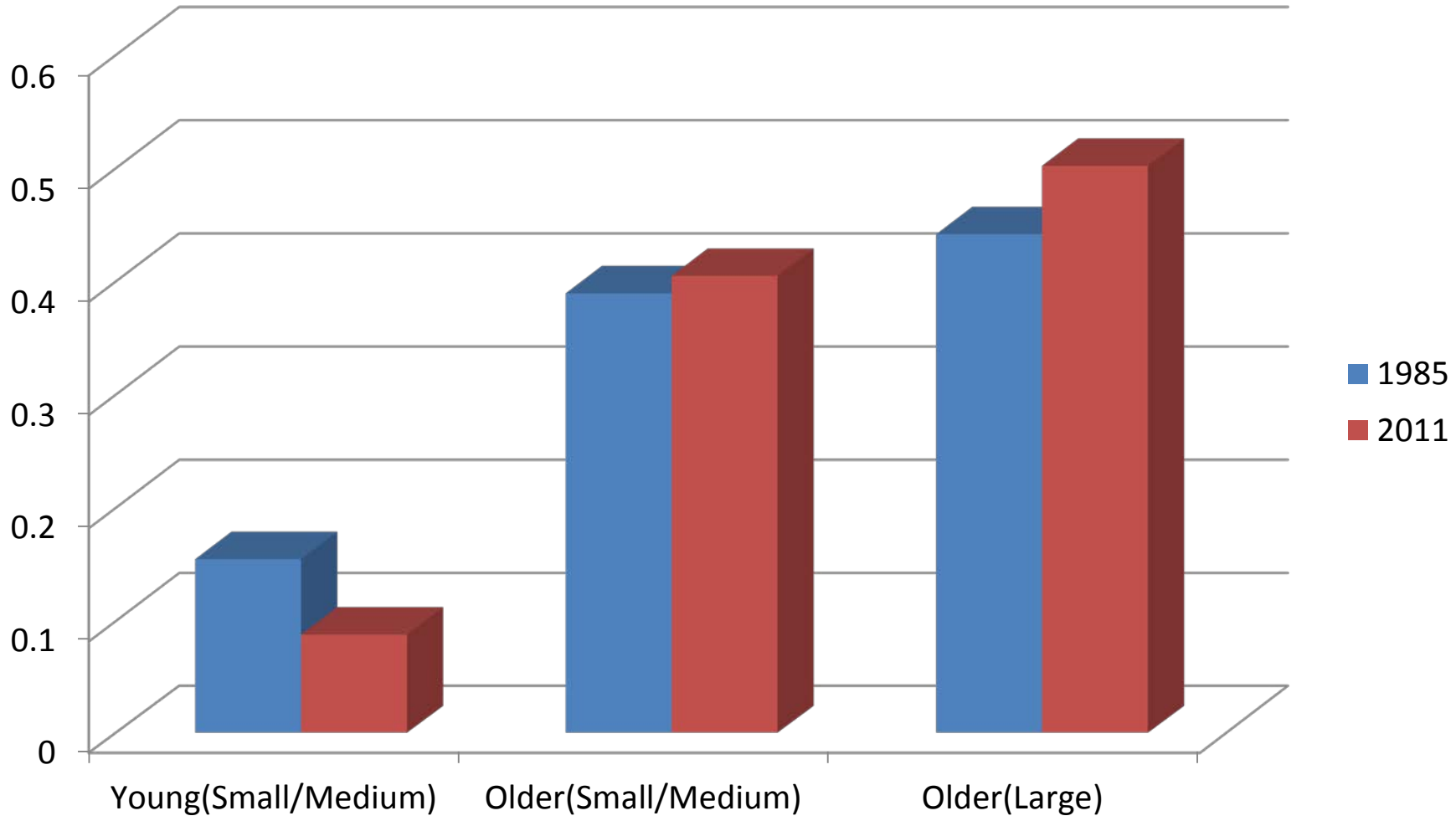


◆ Young, Small    ■ Young, Med    ✕ Older, Small

\* Older, Med    ● Older, Large    + Young, Large

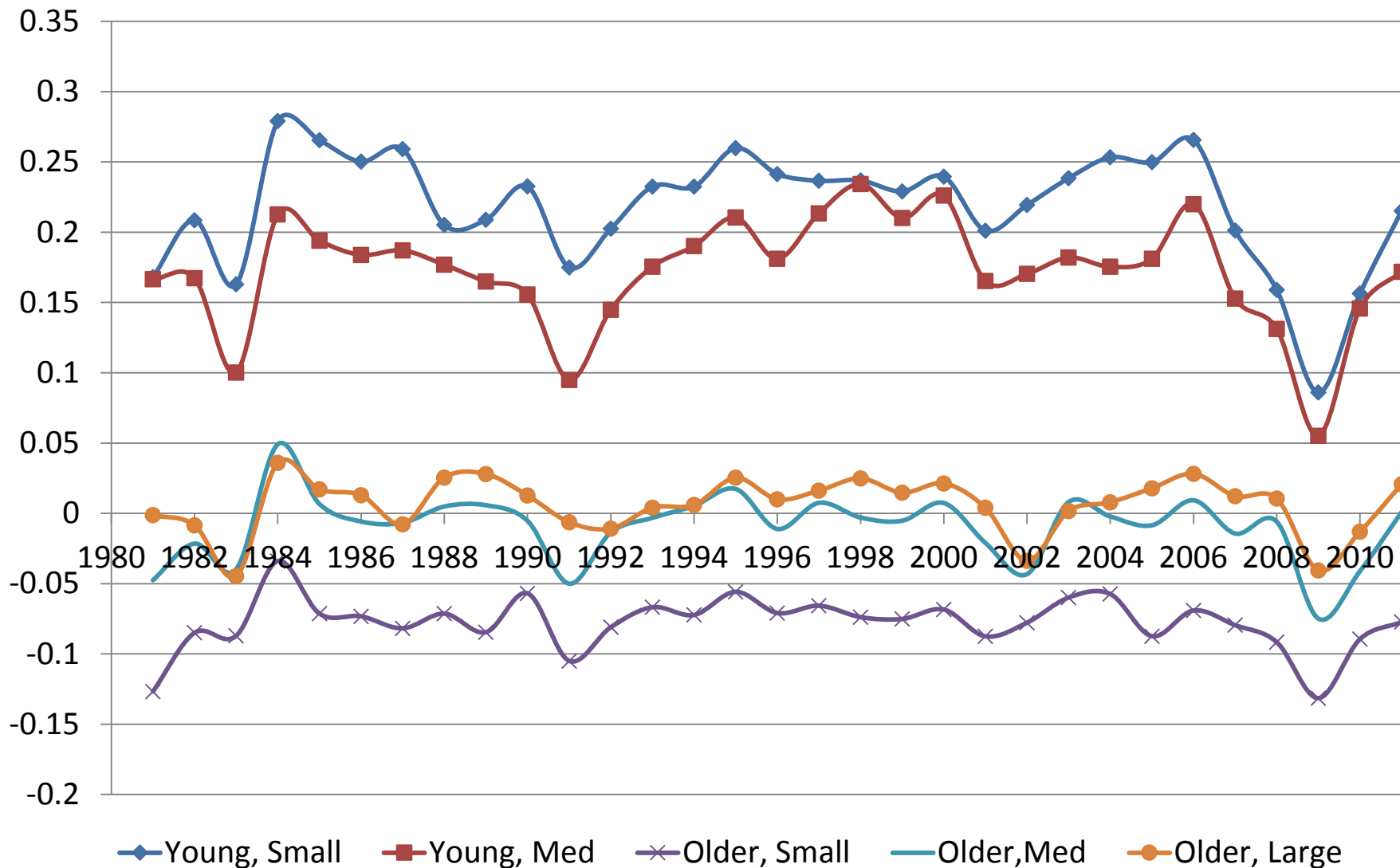


# Shares of Employment for Broad Firm Size and Age Classes (1985, 2011)



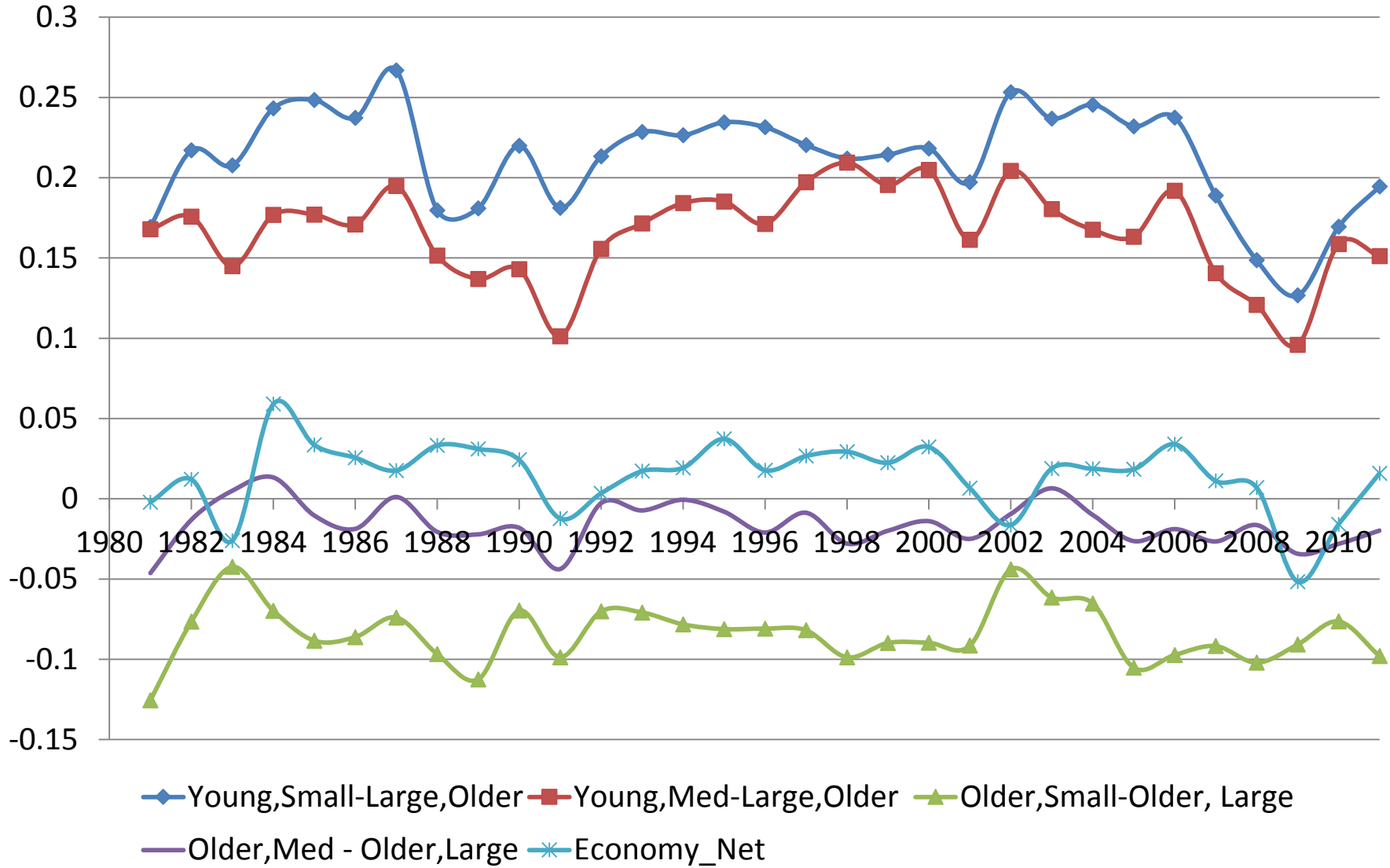


## Net Growth Rates by Firm Age and Firm Size

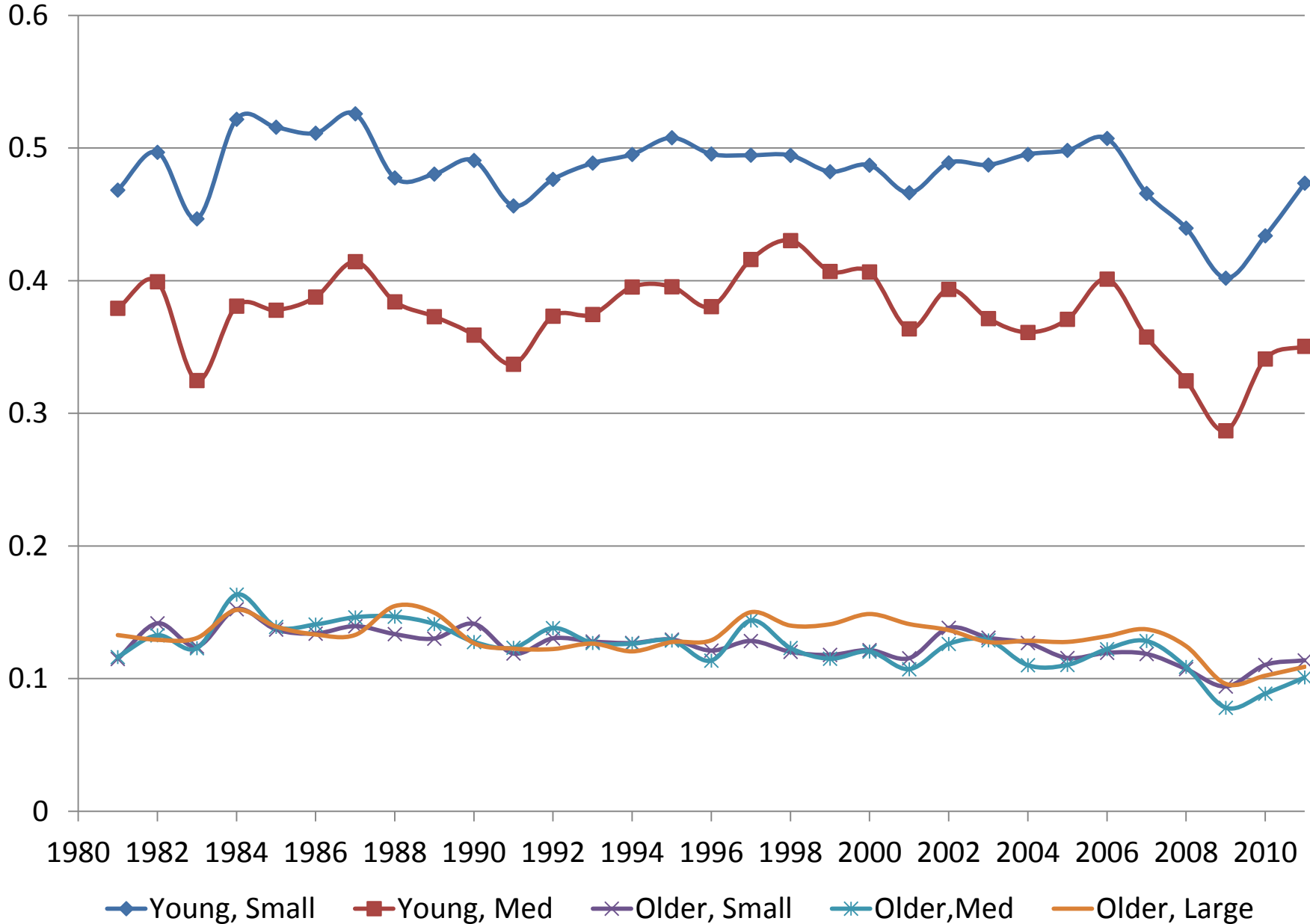




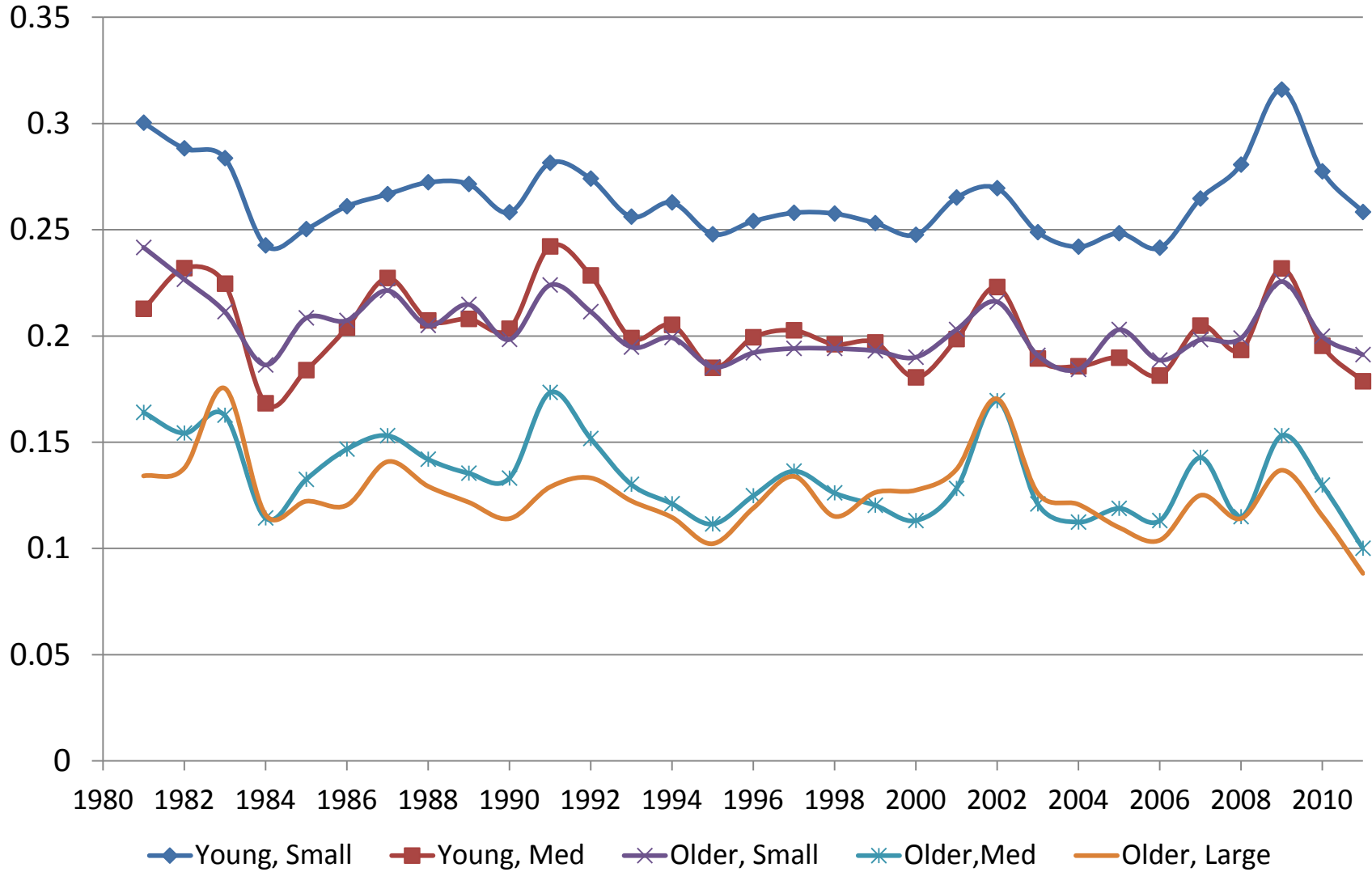
# Differences in Net Growth Rates



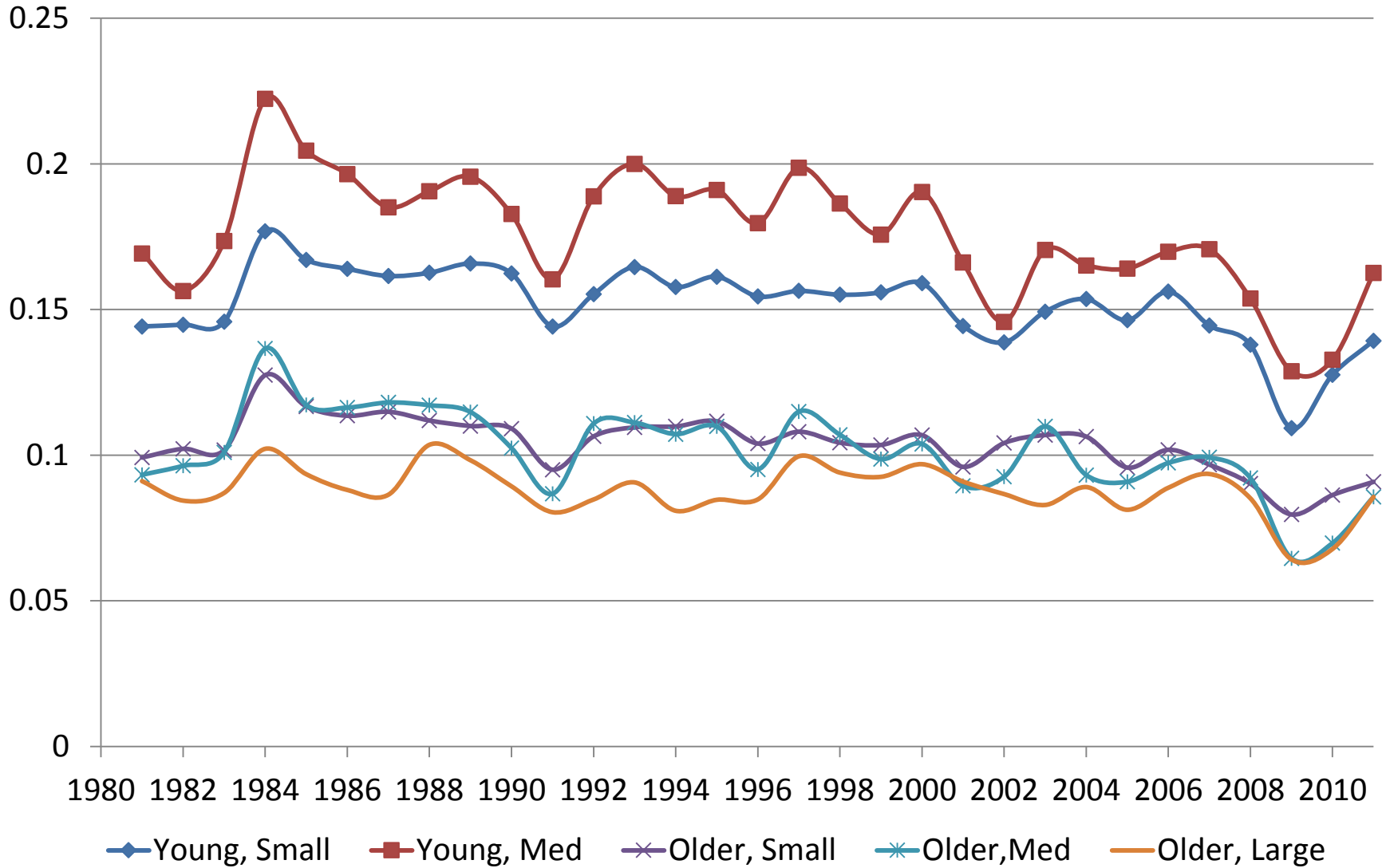
# Job Creation Rates by Firm Age and Firm Size



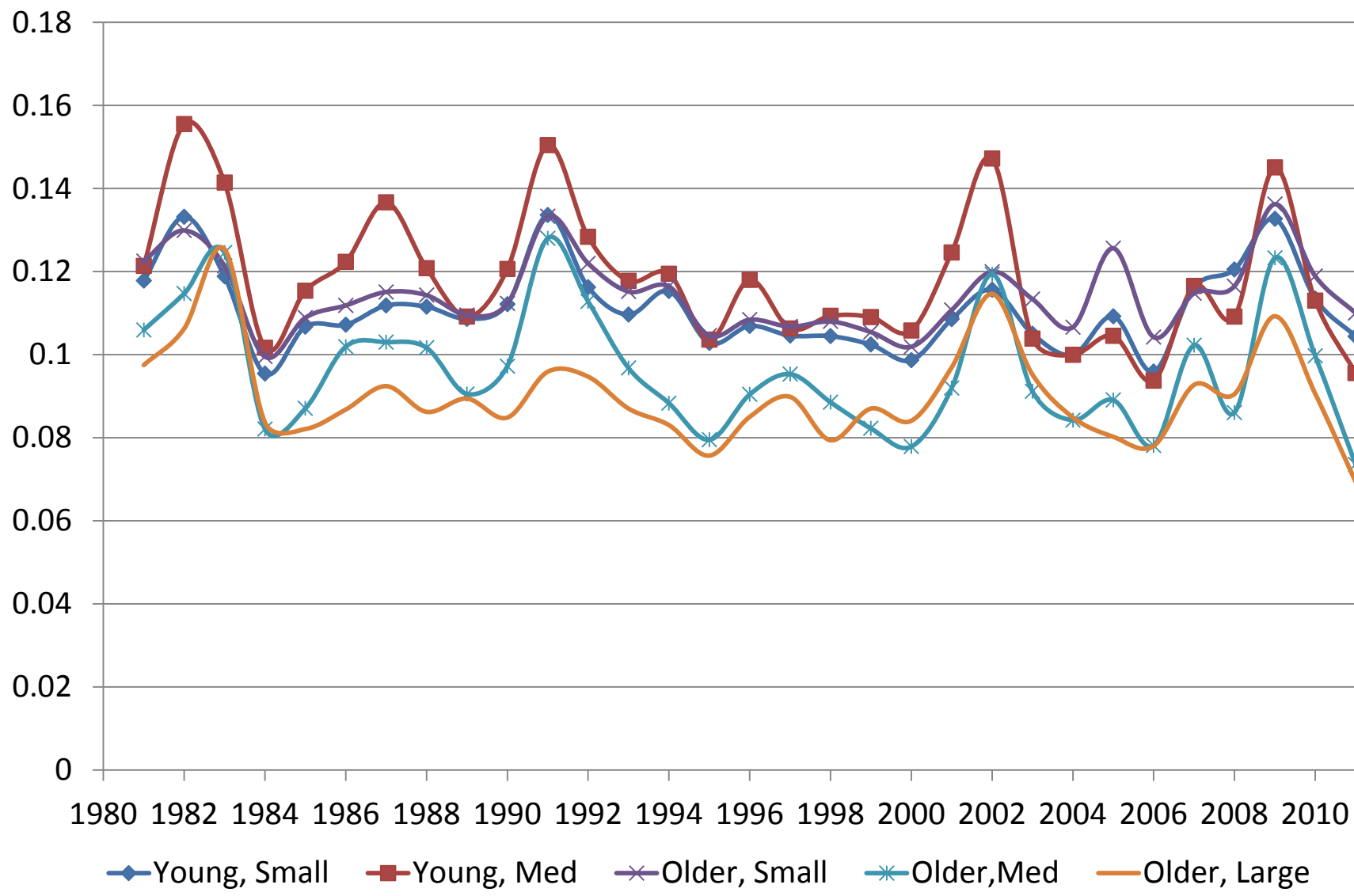
# Job Destruction Rates by Firm Age and Firm Size



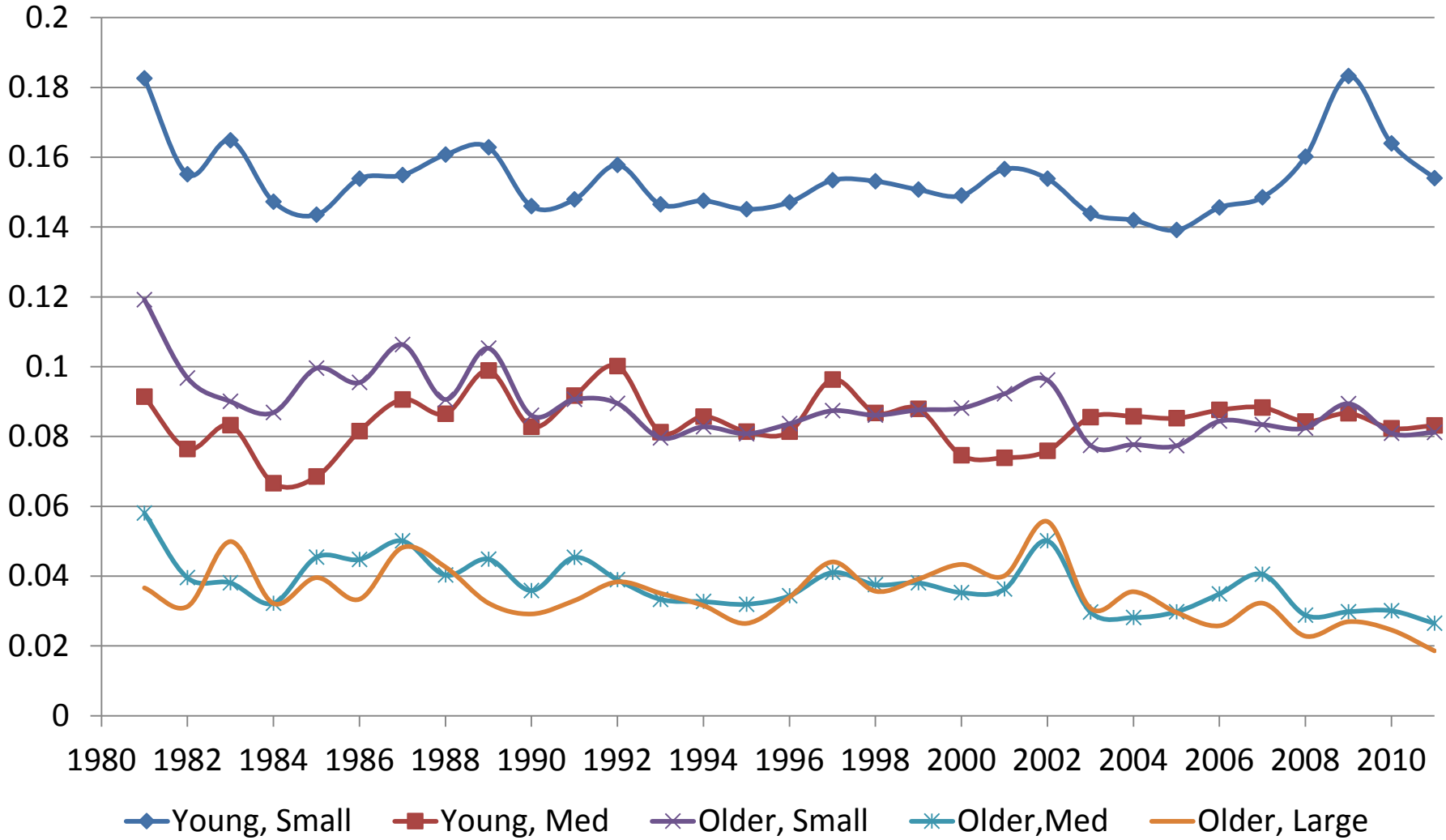
# Job Creation from Continuers by Firm Age and Firm Size



## Job Destruction from Continuers by Firm Age and Firm Size

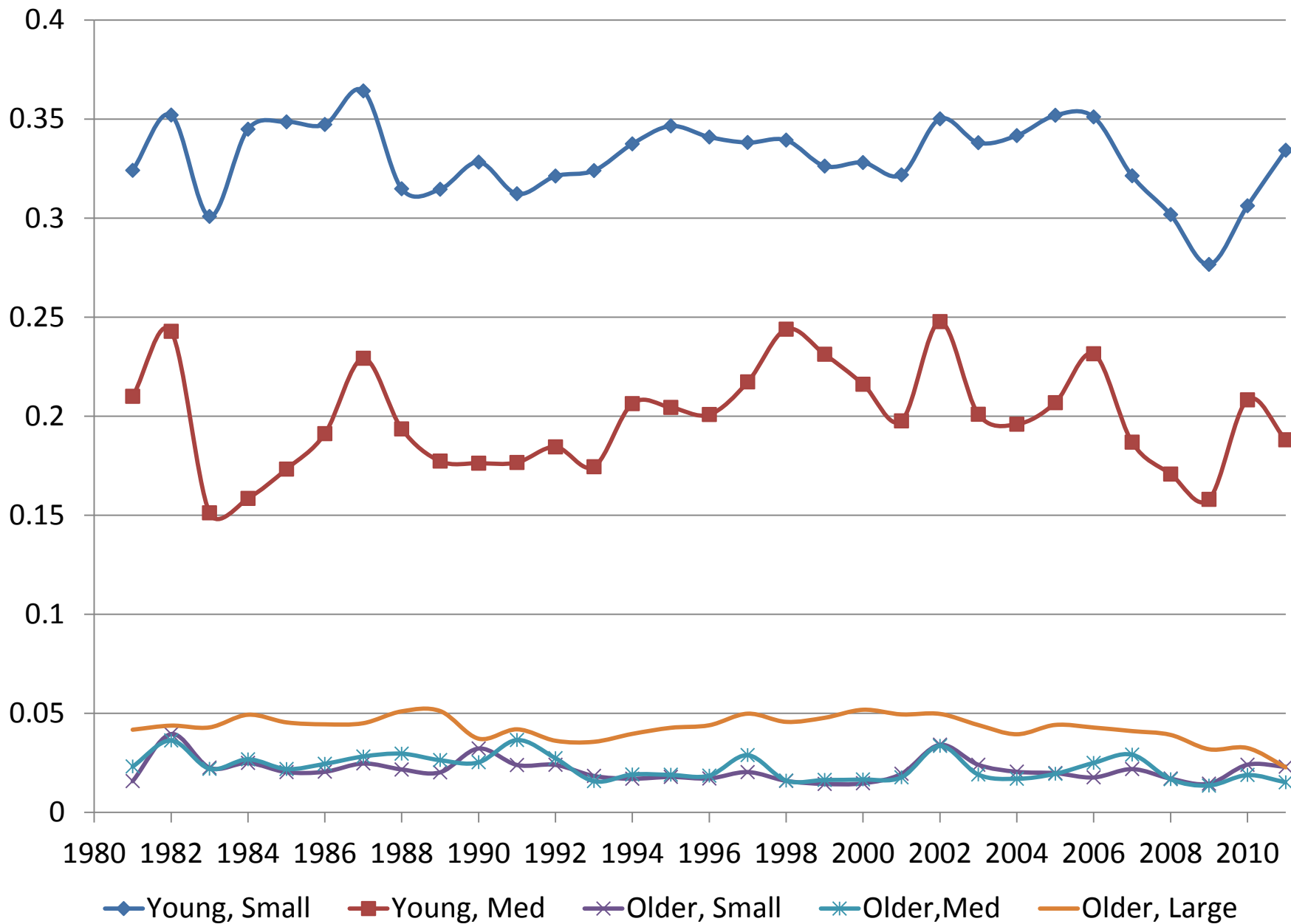


# Job Destruction from Establishment Deaths by Firm Age and Firm Size

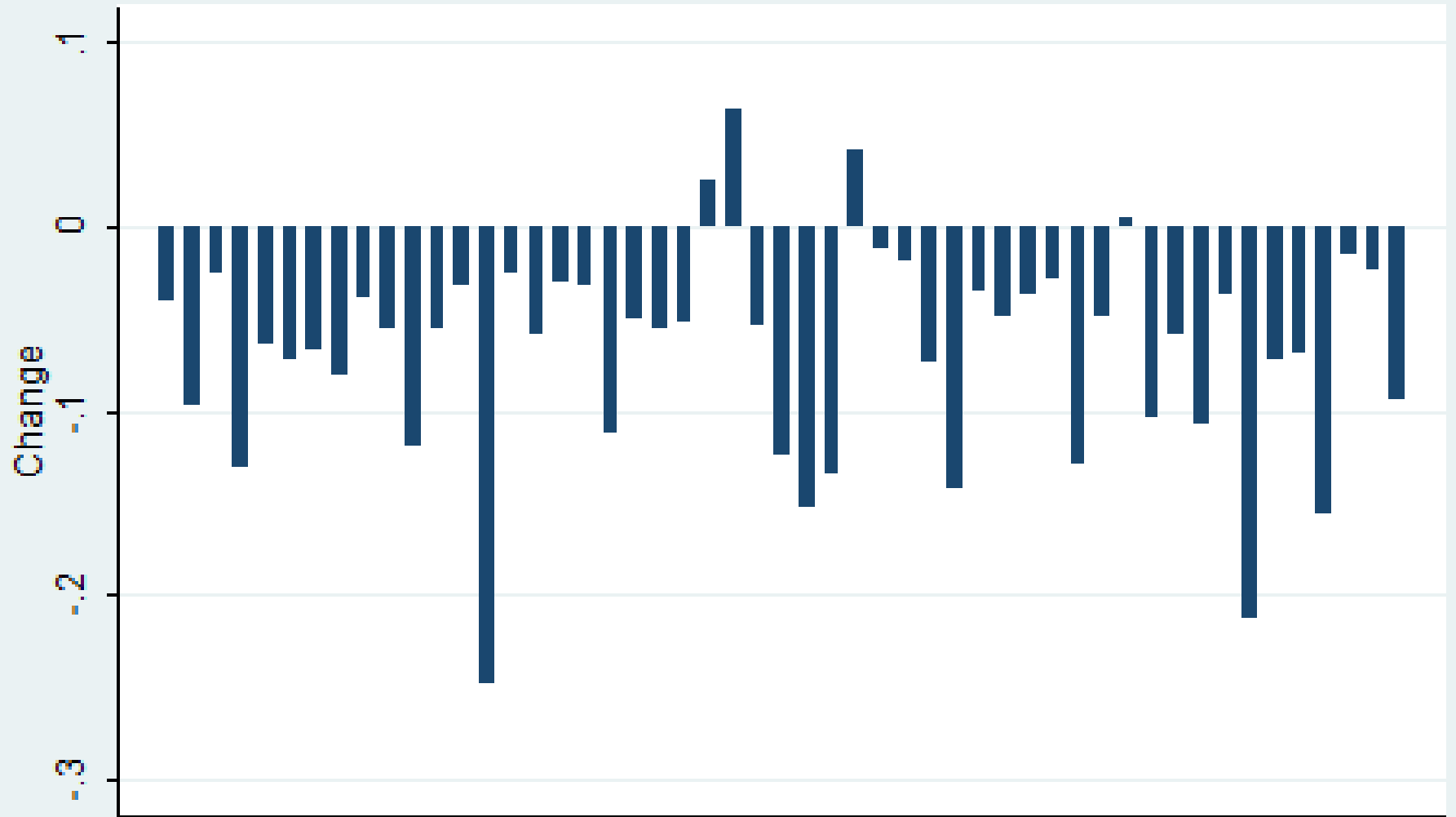




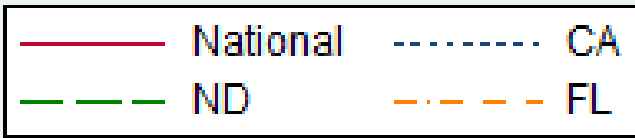
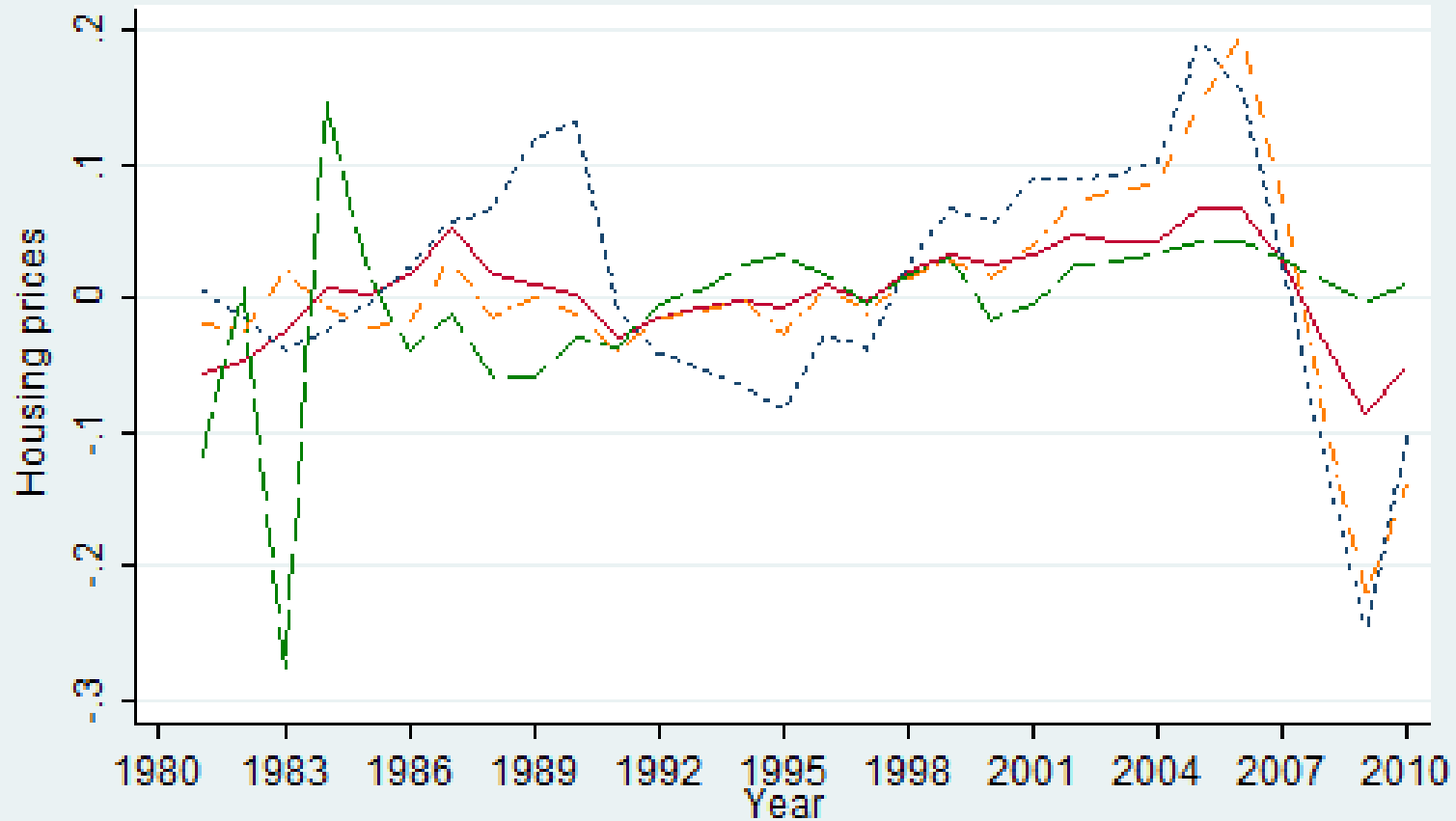
# Job Creation from Establishment Births by Firm Age and Firm Size



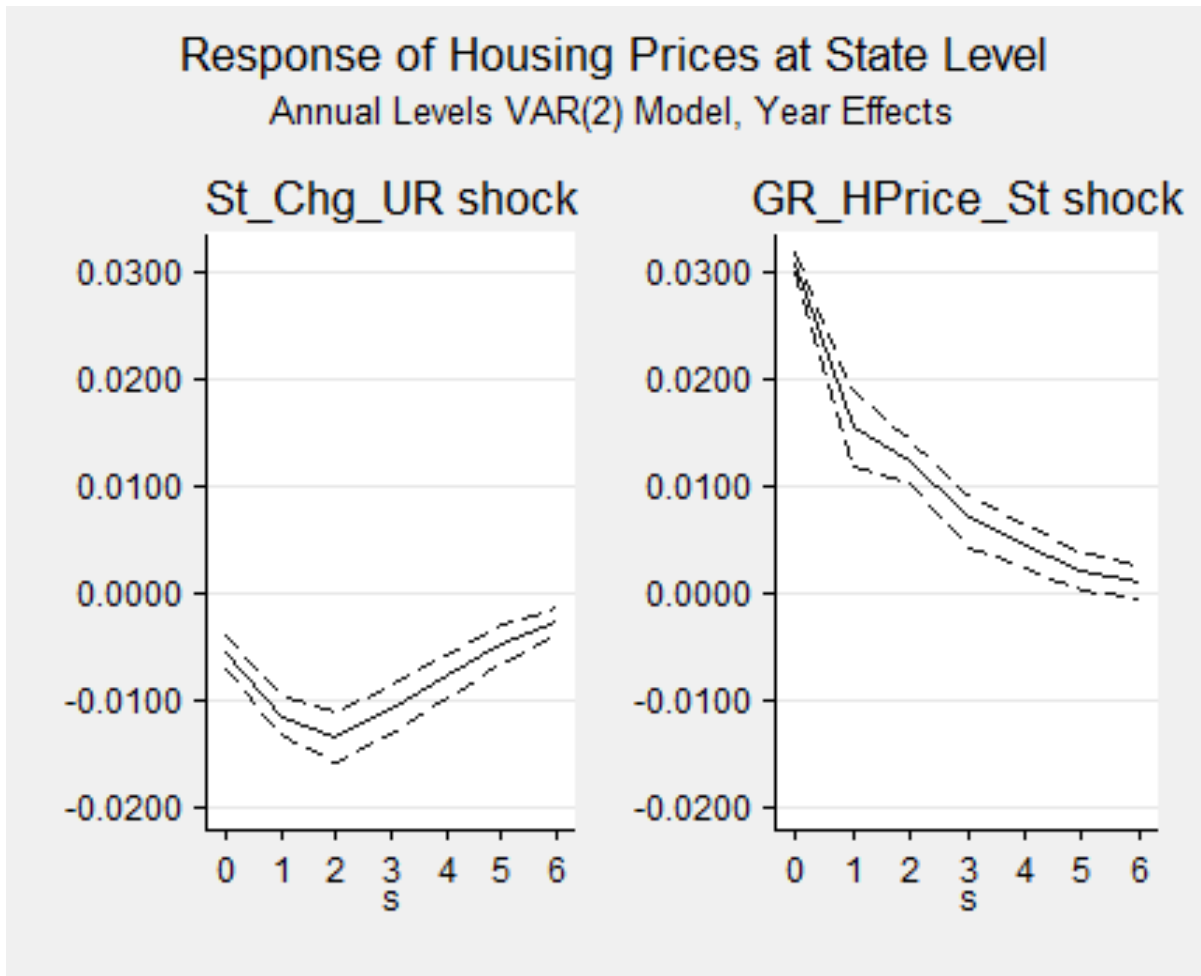
# Change in Net Differential Young/Small and Old/Large 2007-09, By States



# Growth in Real Housing Prices



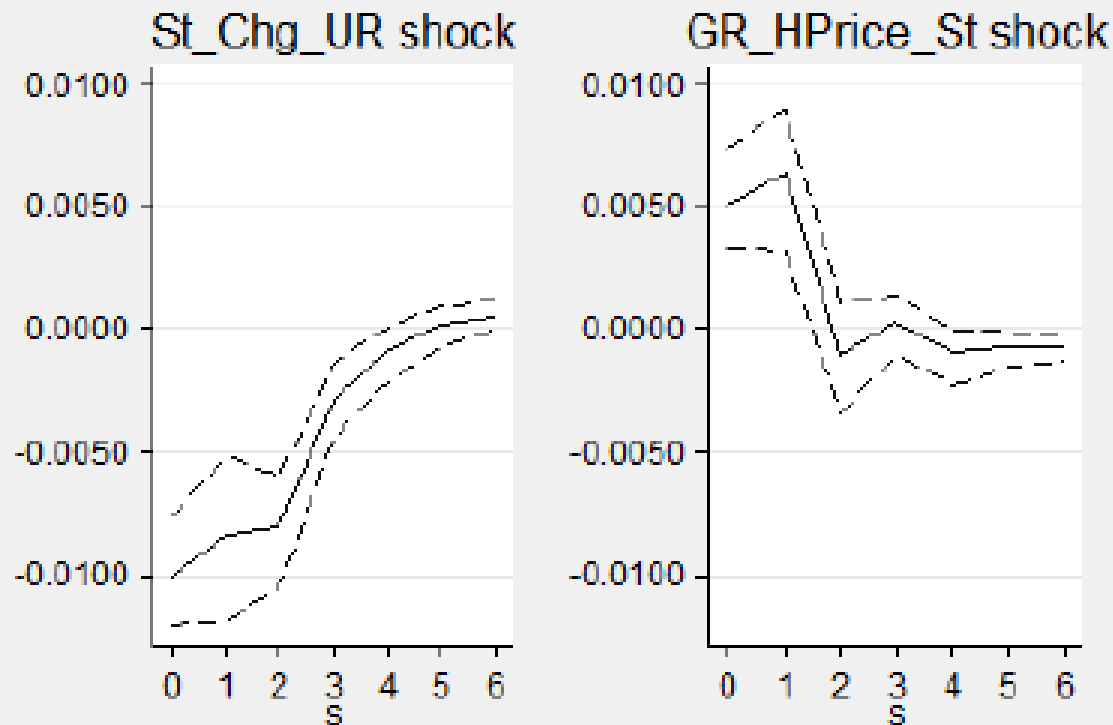
# State-Specific Housing Price Dynamics



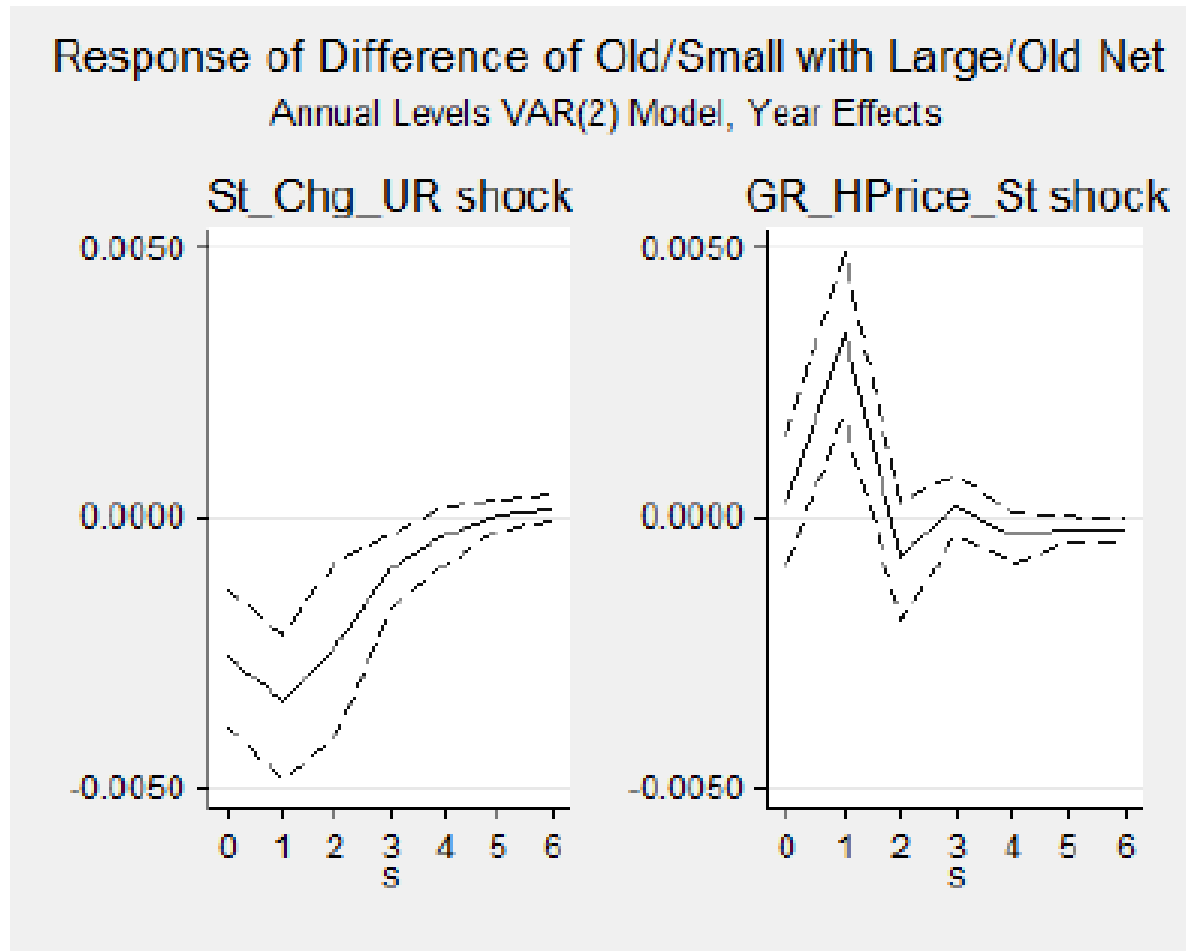
# Impact on Net Growth Young/Small relative to Large/Old for State-Specific Shocks

## Response of Difference of Young/Small with Large/Old Net

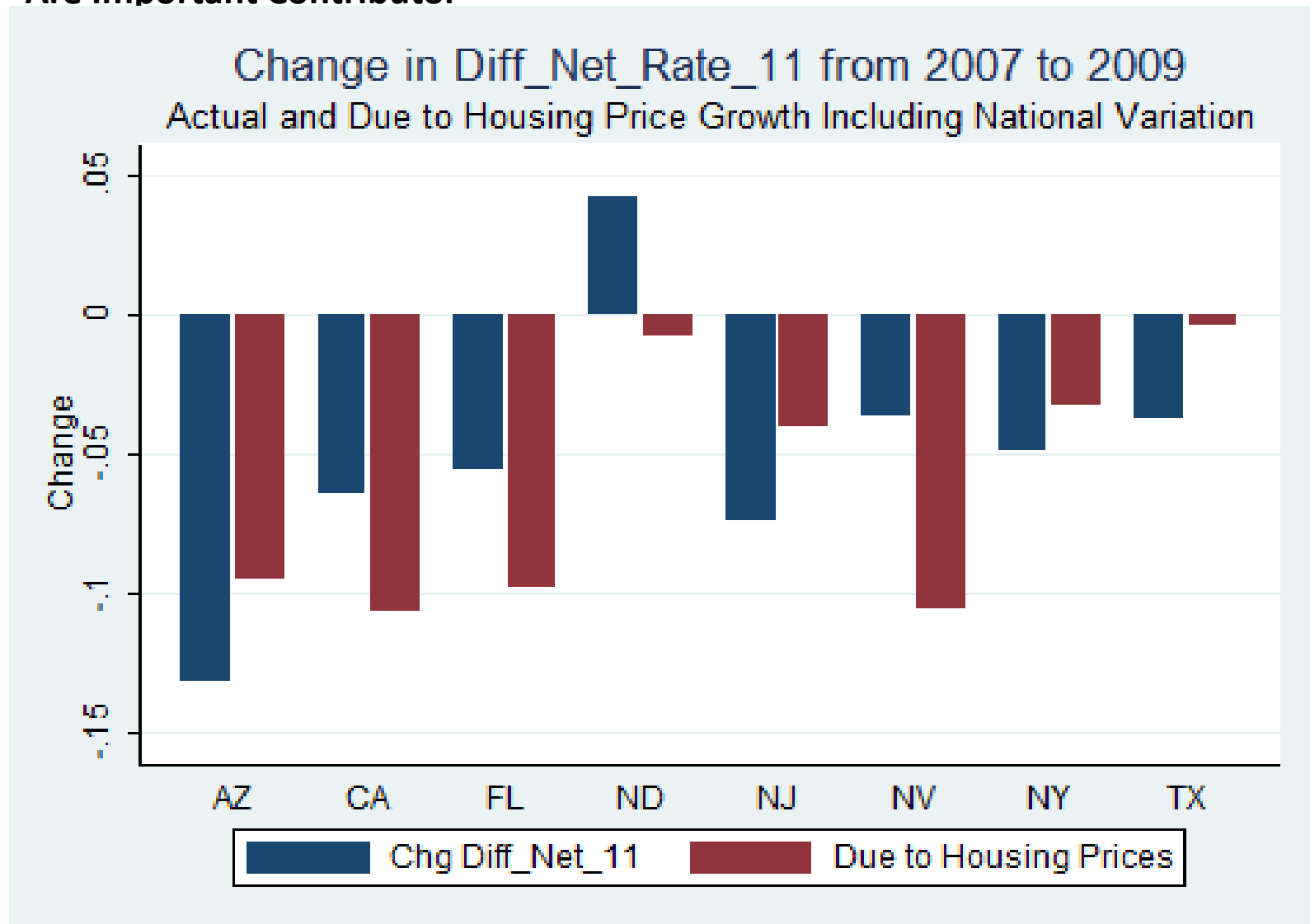
Annual Levels VAR(2) Model, Year Effects



# Impact on Net Growth Old/Small relative to Large/Old for State-Specific Shocks



## Large Decline in Net Differential Between Young/Small and Older/Large – Housing Prices Are Important Contributor



# Alternative Explanations

- All results point to young/small being more vulnerable population. But why?
- The responsiveness of young/small to local cyclical shocks
  - Customer base/Reputation for more established firms
  - Product differentiation (substitution to low price Big Box stores in recessions? Wal-Mart)
  - Young/small firms inherently more tied to local demand (less tradeable or limited geographic reach)
  - Face greater credit constraints
- The responsiveness of young/small to local housing price shocks
  - Home equity financing of young/small businesses
  - Consumption/Household Balance Sheet Channel
  - Housing-sensitive sectors: Construction and FIRE



# Final Thoughts

- U.S. Recovery Obviously Slow
- Why?
  - Interaction of secular and cyclical factors associated with Young/Small businesses?
  - U.S. less dynamic (lower pace of business dynamism driven in part by lower share of young/small firms)
  - Young/Small firms hit especially hard in Great Recession