Is It All About Globalization?

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Brookings Conference: What's (Not) Up for Inflation?

Washington, DC

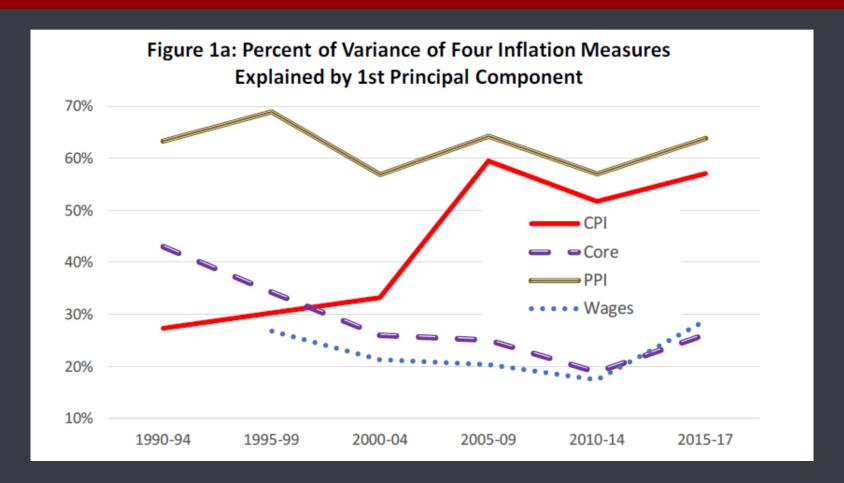
October 3, 2019

Is it All About Globalization?

- Question has motivated recent research
 - Obstfeld (2019), Ha, Kose and Ohnsorge (2019)
 - Forbes (2019): "Inflation Dynamics: Dead, Dormant or Determined Abroad", Sept. BPEA
- > The answer: Some of it (but not all) is about globalization
 - Particularly for CPI inflation & the cyclical component of inflation over the last decade
 - But less so for core and wage inflation
- Supported by results from 3 approaches (Forbes, 2019)
 - Principal components
 - Augmented Phillips curve regressions
 - Trend-cycle analysis



Principal Components of Different Inflation Measures over Time





Augmented Phillips Curves

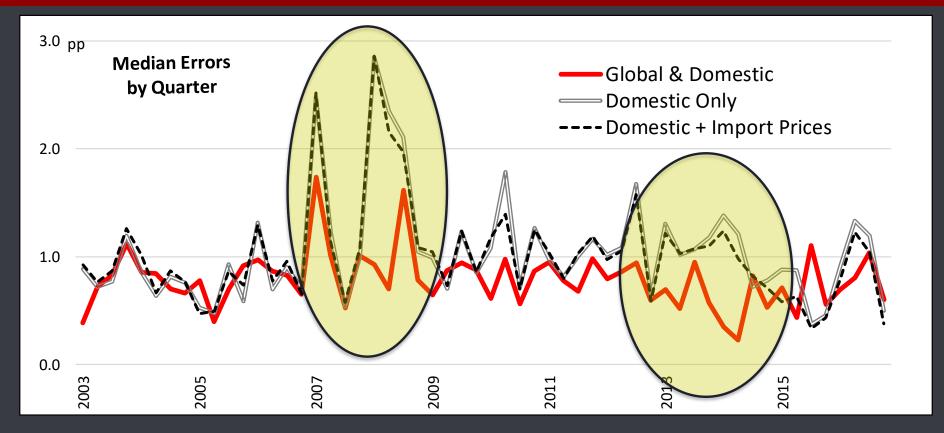
Domestic variables only:

$$\pi_{it} = \beta_1 \pi_{it}^e + \beta_2 \pi_{it}^L + \beta_3 SLACK_{it}^D + \alpha_i + \epsilon_{it}$$

- Full "Triangular"/Supply shock (Gordon....) $+\gamma_1 ImpPrices_{it}$
- Solution Global Model $+\gamma_1 Oil_{it}^W + \gamma_2 Comm_{it}^W + \gamma_3 ER_{it} + \gamma_4 SLACK_t^W + \gamma_5 GVC_t^W$
- Solution Global Model with "flattening" $+\beta_3(SLACK_{it}^D*ImpSh_{it})$

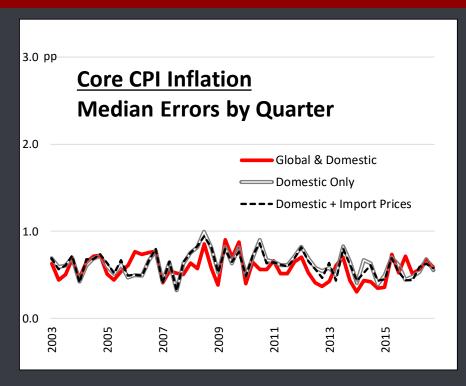


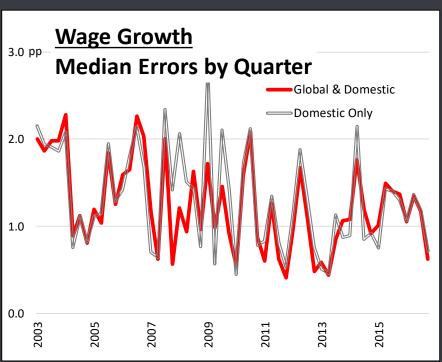
Rolling Regressions: Median Errors Actual vs. Predicted CPI Inflation





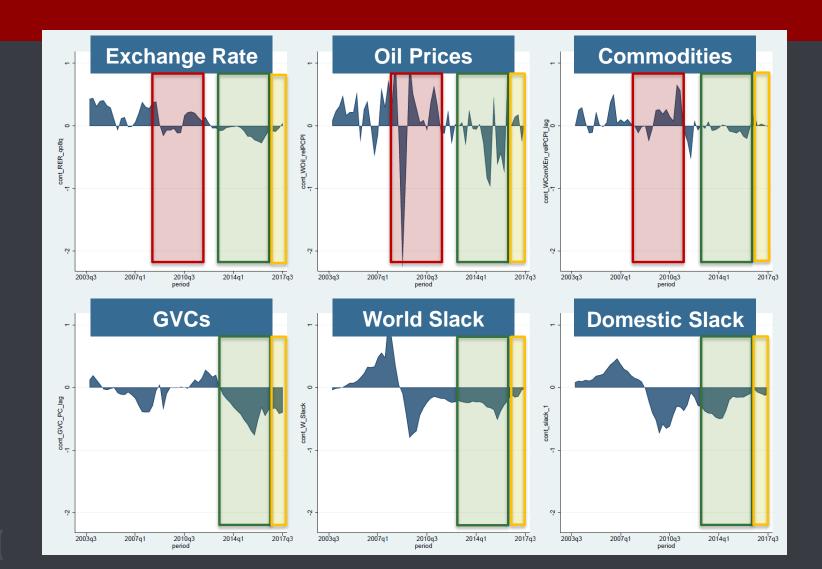
Rolling Regressions: Median Errors Actual vs. Predicted Core & Wages







Which Global Variables Matter? Estimated Contributions for US CPI



Final Thoughts

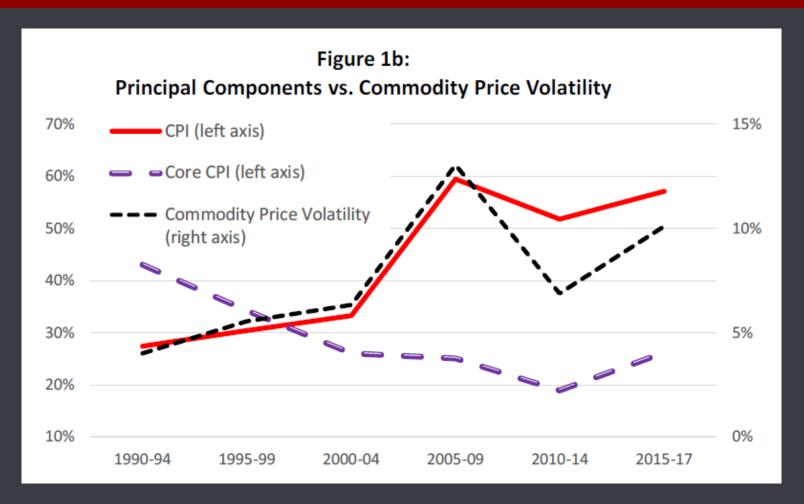
- Key results confirmed in trend-cycle analysis
- Globalization increasingly important for CPI (and cyclical) inflation
 - But wage, core & underlying trend inflation still largely a domestic process
- Key global effects for CPI inflation
 - Import exposure has contributed to some (but not all) of "flattening"
 - Other effects of globalization work through multiple channels—effects vary by time



EXTRA

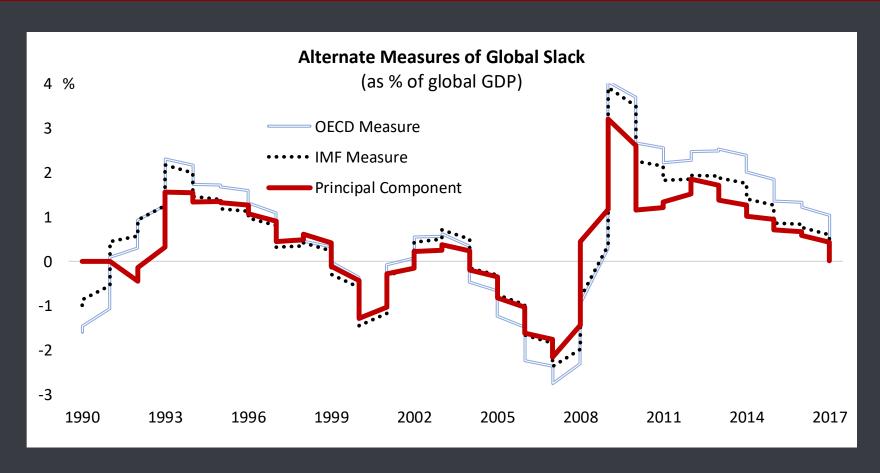


Role of Commodities?



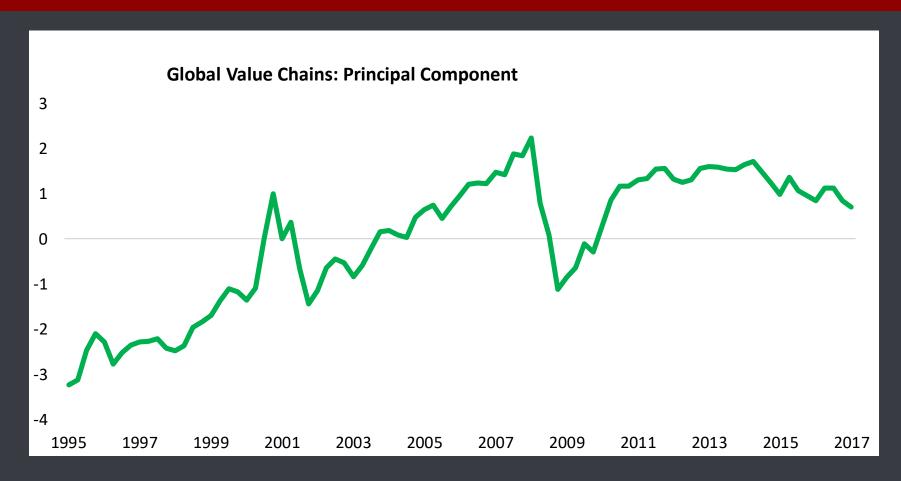


Role of Global Slack?



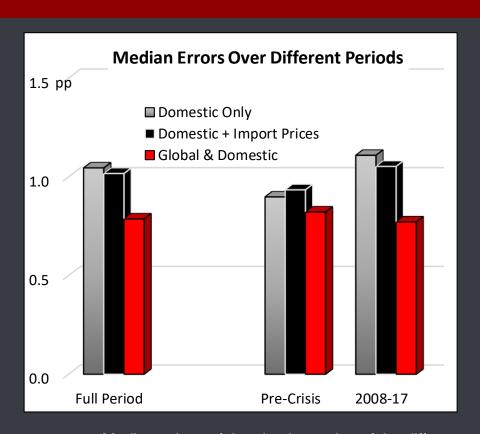


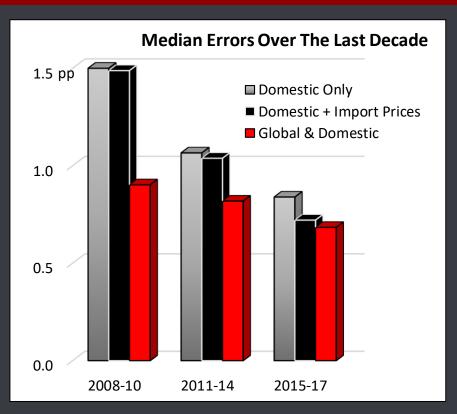
Role of Global Value Chains?





Rolling Regressions: Median Errors Actual vs. Predicted CPI Inflation





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