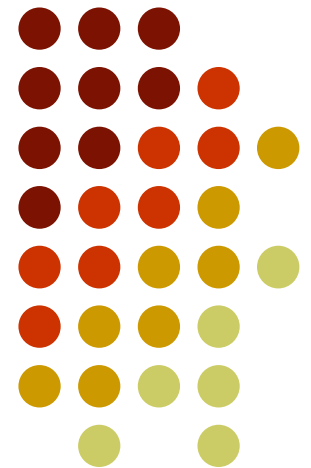


Heterogeneity in Consumers' learning about Inflation

Discussion

Adeline Delavande

RAND Corporation and Universidade Nova
de Lisboa



Objectives of the study



- Evaluate how accuracy of one-year ahead inflation expectation differs from first interview versus second interview 6 months later
- Evaluate whether this difference varies systematically with observable characteristics
- Data from Michigan Survey of Consumer Attitudes and Behavior Series between 1983 and 1996
 - By about what percent do you expect prices to go (up/down) on the average during the next 12 months?
 - No information on uncertainty about inflation
 - Short rotating panel: 40% of respondents are re-contacted 6 months after first interview

Findings



- Forecast error (measured by the absolute value of the difference between one-year ahead expectations and realized inflation) is lower at re-interview
 - By 0.5 percentage point on average
- Heterogeneity in how forecast improves
 - E.g., low income individuals improve their forecast more than middle income individual
 - Younger individuals (<34) improve their forecast more than those aged 34-55
- Individuals who are the least accurate at first interview tend to improve more
 - Less heterogeneity in expectations at second interview

Implications



- Caution when using the inflation expectations data
 - In any given month, 40% of the sample is re-interviewed
- Accuracy of inflation forecast can be changed
- Evidence consistent with adaptive learning
 - Agents potentially learn from their forecast error and improve their forecast over time

What could generate lower forecast error at second interview?



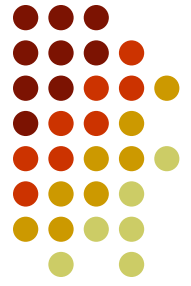
- Selective attrition?
 - Respondents with more accurate expectations are more likely to be re-interviewed
 - Authors take into account attrition

What could generate lower forecast error at second interview?



- Adaptive learning / change in “forecasting equation”?
 - This would mean that only respondents who are interviewed make inflation forecast and learn from their mistakes
 - If inflations expectations are important for decision-making, most individuals should have expectations about inflations, and could learn from observing inflation realizations

What could generate lower forecast error at second interview?



- Change in information set (potentially combined with adaptive learning)?
 - Less heterogeneity in second interview due to more similar information set
 - Being asked about inflation in a survey may increase attention toward information related to inflation so difference in information set between the two waves of interview may be smaller across respondents
 - Do they pay more attention to news/announcement about inflation?
 - Do they pay more attention to price changes?
 - Maybe attention toward information leads respondents to also change their forecasting rules

Why does a survey question lead to (potentially) more attention?



- Do respondents know that they will be re-interviewed?
 - Want to perform “better” at second interview
- Do respondents want to improve their forecast for decision-making?



Implication from policies

- Good news: Limited intervention (one survey question) helps improve accuracy of inflation forecast
- What can be done to increase awareness / attention of consumers?
 - Depends on what individuals focus to make forecast?

Can we learn more from the long panel?



Figure 1: Actual versus Forecast Inflation for First and Second Interviewees

