Monetary Policy Committees and Voting Behavior.

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MPCs and voting

• Most central banks are governed by **committees** who decide (often vote) on policy.

- Fairly **few** make voting records public (e.g. BoE, Fed, Riksbank).
- But voting records may tell us a lot.

 \rightarrow in academia: learn about preferences which feeds into discussion on governance and design

Is it a good idea to have regional representation (cfr Fed)?

Should one use a scheme of rotation?

Should we have different types of appointments e.g. internals-externals as in BoE ?

Does career background matter?

 \rightarrow in financial press: classify doves and hawks (Financial Times, Bloomberg, Forbes, . . .) S. Eijffinger, R.Mahieu, L.Raes • Dominant approach in academia: reaction function framework

• Here: Ideal-Point estimation \rightarrow roll call analysis very popular and developed in quantitative political science. Few applications in the area of central banks (main exception: Hix, Hoyland and Vivyan 2010).

• Ideal Point Estimation: try to infer latent ideal points (preferred policies) from observed votes.

 \rightarrow on a dove hawk dimension we place policy choices and ideal points (x_n) \rightarrow Answer the question: "Assume policy makers only differ in their dovishness-hawkishness, how should we rank them to explain the observed votes?"

Spatial voting model

Basic model:

$$P(y_{nt}=1) = \text{logit}^{-1}(\beta_t x_n - \alpha_t),$$

with non-informative priors on α_t , x_n , β_t .

 \rightarrow logit model with everything unobserved:

 y_{nt} : observed vote of committee member n at time t

 α_t : vote-difficulty parameters or meeting specific intercepts (capture all factors relevant to vote decision)

 β_t : discrimination parameters: makes model flexible \rightarrow positive and large: x_n matter

x_n: ideal points

Hierarchical extension:

 $x_n \sim N(\gamma v_n, \sigma_x^2) \rightarrow v_n$ are ideal point predictors



• Strength: Flexible and powerful methodology (see further); Weakness: no link with theory However an observer stated: "a lets look at the data without pre-conceptions paper"

- We rank MPC members on a single latent dimension
- \rightarrow Some do not like this!

 \rightarrow Reduce complex decision making process to points on a single latent dimension?

 \rightarrow No, ideal points are a statistic, a summary and abstraction.

 \rightarrow Model fits data really well (paper on BoE), little need for higher dimensions

Reminder! Research on central banks is in essence a range of case studies. \rightarrow Each CB has unique features which warrants carefulness when generalizing

We have three papers (all ongoing):

- Inferring hawks and doves from voting records update of work by Hix et al.; focus on Bank of England
- Stimating the preferences of central bankers: an analysis of four voting records Focus on Poland, Czech Republik, Sweden, Hungary
- Hawks and doves at the FOMC Focus on FOMC + efforts to extend methodology

Results on the FOMC: Elements

- Data: not real votes, but stated preferences from transcripts
- \rightarrow FOMC participants provide an explicit interest preference during FOMC meeting
- \rightarrow Official voting record might be a bit less useful: e.g. under Greenspan a "autocratic-collegial committee" (Blinder 2009)
- \rightarrow coded as decisions on 2 alternatives
- \rightarrow sample: 1989-2007 (will be extended)

• 1 dimensional spatial voting model, static, hierarchical extension, Bayesian

- Focus on determinants of individual preferences:
- \rightarrow career before FOMC
- \rightarrow Board Governors vs. (Regional) Bank President
- \rightarrow appointing US president

Some results

• Robust result:

Board Governors are on average more dovish than Bank Presidents \rightarrow all things equal, we expect a Board Governor, confronted with two policy rates in a discussion, more likely to prefer the lower policy rate than a Bank President

 \bullet Career experience: no or little effect of previous jobs (NGO, financial industry, $\ldots)$

• US president effect: negligible

 \leftrightarrow literature Why?

- 1) Watch out for data duplication.
- 2) Take uncertainty seriously.

Some results

1) No data duplication (N \neq central bankers):

if we have 10 FOMC members who voted each 100 times, we still have only 10 ideal points. So we should not act as if we have 1000 latent preferences

2) Preferences are latent i.e. unobserved, so we are not certain and we take uncertainty into account

 \rightarrow Who is the most dovish? becomes a probability statement

• FOMC board evolves over time (high turnover), but: -median ideal point very stable \rightarrow no influence due to political appointments, (pol.) business cycles -median ideal points of Board members and Bank presidents varies over time!

 \rightarrow balance each other





Conclusion 1

 \bullet ideal point estimation may be useful for scaling FOMC members + presents better picture of uncertainty on ranks

• preferences cannot simply be explained by determinants like appointing president or career; only robust divide is Board Governor vs. Bank President

• median ideal point of FOMC as a whole is stable, but variation of median Board Governor and median Bank President

• divergence of opinions (distance between most dovish and most hawkish members) varies substantially over time

Conclusion 2

• The vast majority of papers on MPC's and voting are case studies of the Bank of England and the FOMC

• Hard to draw strong lessons for other central banks.

Example: Jung and Latsos (2015) conclude that rotation is a good thing at the FOMC and draw lesson for EBC

 \rightarrow reasonable idea, but based on n=1 ! \rightarrow ECB: 1 country = 1 vote (regardless of size); alternative rotation scheme; appointments are *less* centralized (e.g. 5 Board Governors for 12 FOMC members vs. 6 executive board members for 21 Governing Council members with voting rights), ...

 \rightarrow Be careful with generalizing lessons.

- \bullet More openness needed e.g. publish records with a lag like transcripts at FOMC
- MPC's are sometimes *well designed* but often the result of political compromise (cfr. ECB) !

References



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