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.

  → **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?*

  → **in financial press:** classify doves and hawks (Financial Times, Bloomberg, Forbes, . . . )
• Dominant approach in academia: reaction function framework

• Here: Ideal-Point estimation → 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.
  → on a dove hawk dimension we place policy choices and ideal points ($x_n$)
  → 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:

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

with non-informative priors on \( \alpha_t, x_n, \beta_t \).

\( \rightarrow \) logit model with everything unobserved:

- \( y_{nt} \): observed vote of committee member \( n \) at time \( t \)
- \( \alpha_t \): vote-difficulty parameters or meeting specific intercepts (capture all factors relevant to vote decision)
- \( \beta_t \): discrimination parameters: makes model flexible \( \rightarrow \) positive and large:
  - \( x_n \) matter
  - \( x_n \): ideal points

Hierarchical extension:

\[ x_n \sim N(\gamma v_n, \sigma_x^2) \rightarrow v_n \text{ are ideal point predictors} \]
If $x_1 = \alpha_2$,
then $\logit^{-1}(x_1 - \alpha_2) = \logit^{-1}(0) = 0.5$

If $x_1 > \alpha_1$,
then $\logit^{-1}(x_1 - \alpha_1) > 0.5$

\begin{align*}
\text{dovish} & \quad -2 \quad \alpha_1 \\
\text{Vote difficulty} \quad \Rightarrow \quad \alpha_2 \quad 0 \quad \Rightarrow \quad \text{hawkish} \quad 2
\end{align*}

\textbf{! Assume $\beta = 1$}
• 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
  → Some do not like this!
  → Reduce complex decision making process to points on a single latent dimension?
  → No, ideal points are a statistic, a summary and abstraction.
  → 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. Each CB has unique features which warrants carefulness when generalizing.

We have three papers (all ongoing):

1. Inferring hawks and doves from voting records
   *update of work by Hix et al.; focus on Bank of England*

2. Estimating the preferences of central bankers: an analysis of four voting records
   *Focus on Poland, Czech Republik, Sweden, Hungary*

3. 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
  → FOMC participants provide an explicit interest preference during FOMC meeting
  → Official voting record might be a bit less useful: e.g. under Greenspan a “autocratic-collegial committee” (Blinder 2009)
  → coded as decisions on 2 alternatives
  → sample: 1989-2007 (**will be extended**)

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

• Focus on determinants of individual preferences:
  → career before FOMC
  → Board Governors vs. (Regional) Bank President
  → appointing US president
Some results

- Robust result: Board Governors are on average more dovish than Bank Presidents → 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

- Career experience: no or little effect of previous jobs (NGO, financial industry, ...)

- US president effect: negligible

↔ 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. → *Who is the most dovish?* becomes a probability statement.

- FOMC board evolves over time (*high turnover*), but:
  - median ideal point very stable → no influence due to political appointments, (pol.) business cycles
  - median ideal points of Board members and Bank presidents varies over time!
  → balance each other
Median, max and min ideal points at the FOMC

Hawkish

Dovish

Board Governors and Bank Presidents

Hawkish

Dovish

Bank Presidents

Board Governors
• 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
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

→ reasonable idea, but based on $n = 1$ !
→ 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), . . .
→ Be careful with generalizing lessons.
Conclusion 3

- 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)!
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