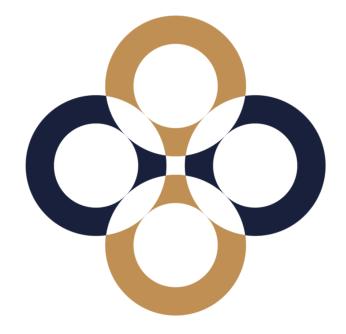


The asymmetric effect of uncertainty on monetary transmission

Péter Horváth

25th Spring Wind Conference





Motivation

Empirical research



Monetary policy



Recent "hot topics":

- Uncertainty
- Asymmetry



Motivation



Hypothesis

The monetary transmission mechanism is less effective when economic uncertainty is high – meaning it's less able to anchor inflation and only able to do so with a higher drop in economic activity.





Source: FRED





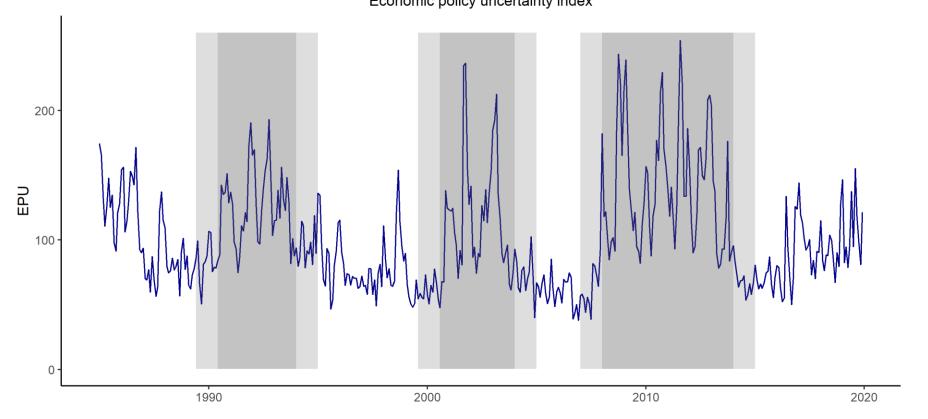
Source: FRED







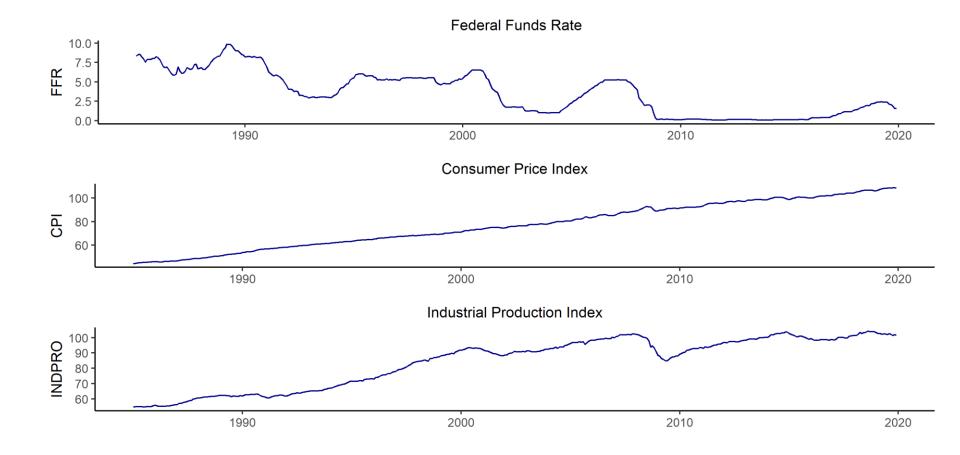
Baker, S. R., Bloom, N., & Davis, S. J. (2016). Measuring economic policy uncertainty. *The quarterly journal of economics*, *131* (4), 1593-1636.





Data

- Monthly US Data
- Range: January 1985 to December 2019
- As used in the model:
 - FFR level
 - CPI 1st difference (monthly inflation)
 - INDPRO 1st difference (monthly growth in output)





Methodology



Estimate a baseline model

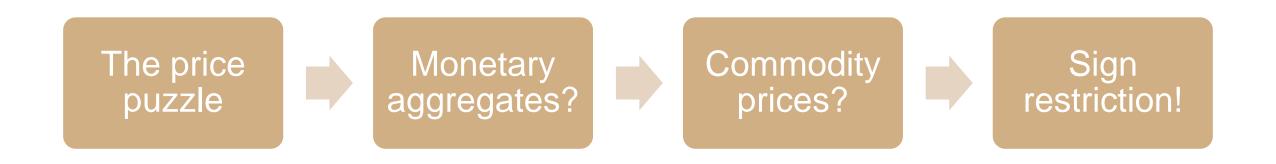
VAR with time varying paramtere assumption

 Estimate VAR-s in 60 month rolling window Impulse responses for assessing results

Point-by-point median aggregation



An empirical challange along the way





Methodology (continued)

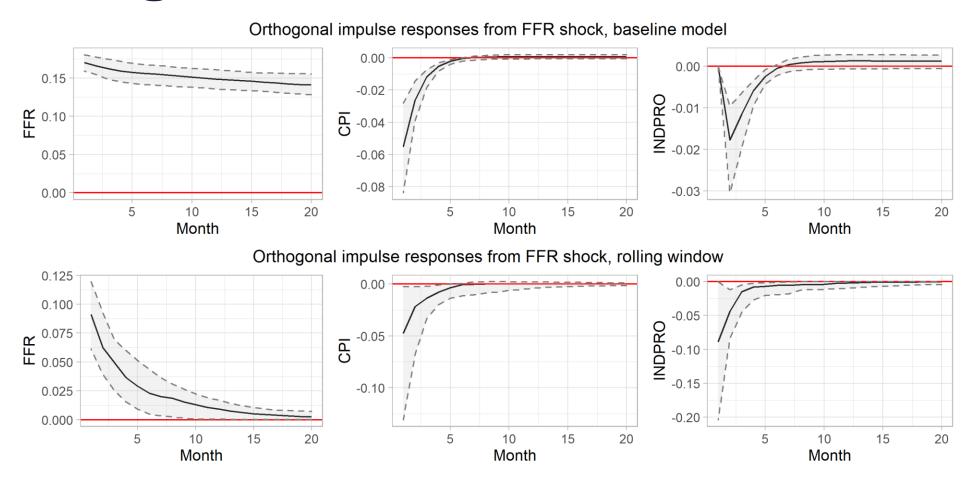
• Sign restriction:

Interest rate	↑
Inflation rate	\rightarrow
Industrial growth	\rightarrow

- Only monetary shock is identified
- Uhlig, H. (2005). What are the effects of monetary policy on output? Results from an agnostic identification procedure. *Journal of Monetary Economics*, *52* (2), 381-419.
- Penalty method vs. rejection method

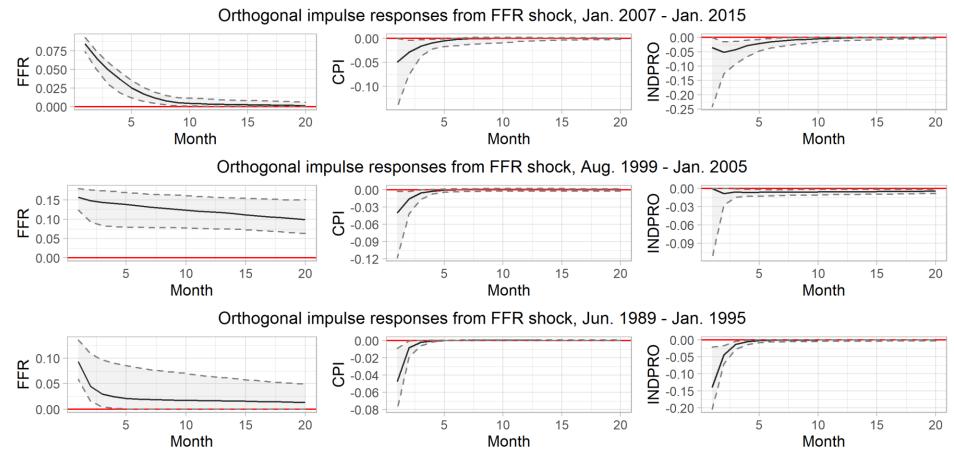


Evaluating results





Dissecting the high uncertainty time periods





Moving forward

- More emphasis on time varying parameter assumption
- Is monthly data appropriate for my purposes?
- More elegant methodology for modelling assymmetries TVAR / Switching VAR



Most important references

- Baker, S. R., Bloom, N., & Davis, S. J. (2016). Measuring economic policy uncertainty. The quarterly journal of economics, 131 (4), 1593-1636.
- Uhlig, H. (2005). What are the effects of monetary policy on output? Results from an agnostic identification procedure. *Journal of Monetary Economics*, *52* (2), 381-419.



Thank you for your attention!

