

Macrointerest Across Countries

Memo to Editor and Reviewers

Introduction

Framing. We appreciate the reviewers’ careful reading and their suggestions for better framing the piece. Following Reviewer 1’s suggestion, we reorganized the introduction into three paragraphs. The first addresses the relevance of macrointerest. Reviewer 2 asked us to provide more theoretical discussion on macrointerest, and minding the editor’s instruction to limit this to “a bit more,” we did so here. The second paragraph reviews the challenges faced by previous research. R1 specifically suggested that we contrast our work with that of Peterson et al. (2022), and we added that to this second paragraph. (Also at R1’s suggestion, we included an appendix comparing our estimates of macrointerest for the United States with those presented in that article; see Appendix E.) The third paragraph previews our specific contribution and findings. We agree that the original introduction was too brisk, and we see this as a substantial improvement.

One point that both reviewers flagged was the “good times versus bad” framing of the hypotheses regarding the circumstances that prompt higher levels of macrointerest, pointing out that this wording does not correspond very well to the paper’s findings. Here in the introduction and throughout, we adopted the more accurate “good economic conditions” phrase to better reflect the higher mean levels and positive change in GDP per capita plus lower mean levels of income inequality that we found to be associated with higher macrointerest in our analysis.

Replication materials R2 longed to see replication materials. We, as reviewers, have had similar laments. We are told by the *BJPS* editor that making those materials available

to reviewers is not presently possible. In the final version, we will of course provide full replication materials on the Dataverse as well as the link to the repository with the complete revision history on GitHub.

Cross-National Macrointerest: The Source Data

DCP0tools. On the recommendation of R1, we expanded and moved our discussion of the automation of the data cleaning process to Appendix A.

Estimating Cross-National Macrointerest

Method comparison. R1 suggested that we bring our discussion of the merits of the DCPO approach relative to alternatives from a footnote to the text. We have adopted this suggestion at page 4.

Validating Cross-National Macrointerest

Validation. R2 queried of the validity of the DCPO outcome. In the research, we used the validation method that has been applied in publications of APSR and BJPS (Caughey, O’Grady, and Warshaw 2019; Woo, Goldberg, and Solt 2023). At the same method, we agree with R2 that it is difficulty to interpret the results of this method without any benchmarks. Therefore, we listed the correlations of an APSR publication using the similar validation method for readers’ reference (n. XXX). Moreover, we point out to the readers that the correlations can also be affected by other factors.

Testing Theories of Macrointerest Cross-Nationally

Comparison to the ESS R2 asked why we would analyze macrointerest in only the advanced democracies of the OECD when we could simply use the ESS data “and save ourselves all the harmonization effort?” This point is two-pronged. To address its first part, we examine the advanced democracies because that is where the extant theories of macrointerest apply. To our knowledge, political scientists have had relatively little to say regarding, for

example, explanations of the public’s interest in politics in authoritarian countries. We now emphasize that we restrict our sample for theoretical reasons at page 7.

The question of the payoff of our estimates is easily answered, even within this sample of relatively data-rich countries. Our macrointerest estimates, by drawing on all of the available survey data on political interest, provide *many* more country-years to work with than the ESS (which is, as R2 implied, the best alternative). The ESS includes only 17.3% of the country-year observations that our macrointerest data make available. We review this key advantage in Appendix C.

Two-Step Approach R1 raised the question whether the analysis “could be achieved in a single step by integrating hierarchical priors into the model.” We were somewhat puzzled by this comment, but we guessed the reviewer was referring to combining the measurement and analysis steps into a single model, as in Claassen (2022). We prefer to avoid such an approach, because it assumes that the indicators of macrointerest are missing at random with regard to the independent variables, and therefore that the relationship between macrointerest and these variables is the same in the countries when and where macrointerest is poorly observed as in the country-years where macrointerest is well observed, and this assumption is difficult to justify. If the reviewer had a different “single step” approach in mind, we apologize for not figuring it out.

Uncertainty. In response to R1’s suggestion to provide more details about how we incorporated uncertainty in our analysis, we made a specific discussion at page 11. We used the “Method of Composition” to account for the uncertainty in the ex post analysis based on the estimated latent variable together with others. This is a method that has been used in a series of latent variable analyses in political science. We listed several other applications and also direct readers to a more detailed technical note of how the method is incorporated in the DCPO framework.

Conclusions

Participation. R2 provides an intriguing insight for the theoretical implication of the theory test section of our research that the findings suggest the distinctiveness of macrointerest with other types of participation/engagements. Although there is little room for a more sufficient

discussion due to the word limit, we pointed out this insight to the readers and direct them to relative literature for further comparison.

Appendices

Survey Items Used to Estimate Macroeconomic Interest

Full survey references R2 asked for additional information in Appendix A on the source data, requesting “references to all survey datasets used in the analysis.” We now provide citations to all of the surveys in Table A2. As the reviewer anticipated, this did indeed “take many pages,” but we agree that it is a valuable addition.

Legibility of Figure A1 R2 also pointed out that Figure A1 was hard to read and suggested splitting it. We split that figure into several panels by region to allow it to be split across pages and so expanded for better legibility.

Included projects R2 queried if “single-country and single-wave projects should be included.” All of the survey items we employ include at least five country-years of data (a point we now make explicit at page 2). This means that single-wave projects include at least five countries, as exemplified in these data by the survey “Values and Political Change in Post-Communist Europe, 1993-1994.” Even such small cross-national surveys contain at least some information regarding the differences across countries. The cost is that country-specific item bias cannot be estimated and so is set to zero, potentially resulting in additional measurement error (see Solt 2020b, 6). It also means that single-country projects incorporate at least five years (in fact, the minimum in this dataset is seven, in both the Canadian National Election Studies and the Korea Barometer). This provides considerable information about changes over time within those countries, and country-specific item bias is of course not an issue for data drawn from only a single country.

The DCPO Model

Source data sample representation. We thank R2 for pointing out the matter of sample representation. We have added a paragraph here discussing the issue here. The short of it is that unlike the model employed by Caughey, O’Grady, and Warshaw (2019), the DCPO

model does not incorporate a poststratification component to correct for this problem, and the result is greater measurement uncertainty in the estimates where data is relatively rich and potential bias in the estimates where data is more sparse.

Scaling of estimates. R1 suggested that we consider employing the cumulative distribution function (CDF) of the normal distribution—that is, the probit transformation—as an alternative to the logistic transformation, for scaling responses on the unit interval within the DCPO framework or at least discuss the relative merits of the two in the appendix. We appreciate the suggestion of the probit transformation. The preference for the logistic function in the DCPO model is grounded in its inherent flexibility and enhanced tolerance for deviations from standard normal assumptions. Pertinently, within the macrointerest context, we see little reason to presume that the source data are devoid of extreme values or adhere to a symmetric distribution. The logistic transformation exhibits greater leniency under such conditions compared to the normal CDF. On the other hand, we concur with R1 that the interpretation of the probit transformation is more intuitive. We have added a discussion of these points to Appendix B, our summary of the DCPO model. And as the DCPO model is published as open source software on CRAN (Solt 2020a), future researchers have the option of modifying the transformation method if they see fit.

Macrointerest Scores Over Time

R2 pointed out that the “appendix should show the trajectories for all countries.” We have added those plots here.

Reference

- Caughey, Devin, Tom O’Grady, and Christopher Warshaw. 2019. “Policy Ideology in European Mass Publics, 1981–2016.” *American Political Science Review*, 1–20.
- Claassen, Christopher. 2022. “Including Measurement Uncertainty in Time-Series, Cross-Sectional Analyses: The Case of Mood and Democracy.” *Available at SSRN 3924934*.
- Peterson, David A. M., Joanne M. Miller, Kyle L. Saunders, and Scott D. McClurg. 2022. “Macrointerest.” *British Journal of Political Science* 52 (1): 200–220.

- Solt, Frederick. 2020a. “DCPO: Dynamic Comparative Public Opinion.” Available at the Comprehensive R Archive Network (CRAN). <https://CRAN.R-project.org/package=DCPO>.
- . 2020b. “Modeling Dynamic Comparative Public Opinion.” SocArXiv. <https://osf.io/preprints/socarxiv/d5n9p>.
- Woo, Byung-Deuk, Lindsey A. Goldberg, and Frederick Solt. 2023. “Public Gender Egalitarianism: A Dataset of Dynamic Comparative Public Opinion Toward Egalitarian Gender Roles in the Public Sphere.” *British Journal of Political Science* 53 (2): 766–75.