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Promoting Reproducibility and Replicability in Political Science

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Promoting Reproducibility and Replicability in Political Science

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Abstract

This article reviews and summarizes current reproduction and replication practices in political science. We first provide definitions for reproducibility and replicability. We then review data availability policies for 28 leading political science journals and present the results from a survey of editors about their willingness to publish comments and replications. We discuss new initiatives that seek to promote and generate high-quality reproductions and replications. Finally, we make the case for standards and practices that may help increase data availability, reproducibility, and replicability in political science.

Keywords: Reproducibility, replicability, political science

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Ensuring the credibility of research findings hinges on the crucial role of reproduction and replication. By testing and verifying published research, both reproducibility and replication initiatives play vital roles in shaping scientific knowledge. These efforts enable us to evaluate the robustness of findings, transforming science into a self-correcting system that identifies and rectifies inaccuracies, ultimately influencing policy-making in significant ways. *Reproducibility* here is defined as testing if results and conclusions of original studies can be reproduced using the original studies' data, while *replicability* is defined as testing if results and conclusions of original studies can be repeated using new data.

When attempting to reproduce published results, researchers often face roadblocks (Colliard et al., 2021). Published assessment studies generally report reproducibility rates below 50%, and sometimes the success rate is single-digit (Avelino et al., 2021; Gertler et al., 2018; McCullough et al., 2006). This may be due to the data not being publicly available because of their nature: administrative, proprietary and/or copyrighted data (Christensen and Miguel 2018). Furthermore, for many other studies, the required computer code is not available or incomplete (Chang and Li, 2022; Gertler et al., 2018).

A few large-scale replication projects have taken place recently, including one in psychology (Open Science Collaboration, 2015), one in experimental economics (Camerer et al., 2016) and a social science replication project (Camerer et al., 2018). Replication here means that the original study's main significant result was the focus of a new study using similar methods and tests on a fresh sample. Pooling the results of these large replication projects yielded a replication rate of about 50%.

Beyond lab experiments and especially for studies based on observational data, large-scale reproduction and replication projects have not been attempted.² Instead, most reproductions and replications involve reproducing or replicating the claims of one original study, often evoking lengthy debates about the interpretation of results. Yet, some recent reviews point at systematic problems such as p-hacking in studies based on observational data and that these problems are worse than for experimental/RCT data (see e.g., Brodeur et al., 2020; Young, 2019), which, if true, would translate into even lower replicability rates than for experimental studies. Experimental studies, in turn, are often said to be more prone to external and construct validity concerns, with obvious implications for their replicability in new settings (Esterling et al. 2023, Findley et al. 2021, Peters et al. 2018).

Low reproducibility and replicability rates may be due to many factors. First, many previous studies have been performed on small sample sizes or look at small effects, implying low statistical power (Ioannidis et al., 2017). Arel-Bundock et al. (2022) assess statistical power for about 2,000 articles in political science. They report that the median analysis has about 10% power. Second, there are typically many ways of testing a hypothesis, giving researchers many “researcher degrees of freedom” in their analysis (Simmons et al. 2011). Specification searching (or “p-hacking”) has been found to be a problem in political science and related disciplines (Brodeur et al, 2016;

² Another type of meta-replication recently being conducted involves many research teams using the same data. For instance, in Breznau et al. (2022), seventy-three independent research teams used identical data to test the same hypothesis.

Gerber and Malhotra, 2008). Third, researchers might be tempted to select their hypotheses after the results are known (called “HARKing”) on the basis of whether they yield significant results (Kerr, 1998). All these factors make it hard to disentangle true results from false positive and false negative ones.

Reproduction and replication studies are an important part of changing incentives and improving the quality and credibility of original research. They may themselves also generate new knowledge and findings that the original authors did not achieve. Other strategies to enhance transparency and credibility in scientific research include pre-registration of hypotheses and data analysis plans. Reproduction and pre-registration are complements, not substitutes. Pre-analysis plans can address the problem of p-hacking datasets and generating false positive results. Reproduction and replication, the focus of this paper, address the integrity and robustness of data and findings, and may allow for collecting additional data and testing new hypotheses. Recent efforts have sought to combine replication and pre-analysis plans, as exemplified by initiatives like the Metaketa initiative (<https://egap.org/our-work/the-metaketa-initiative/>), where research teams coordinate their efforts, pre-register their analyses, and often replicate the core treatments and outcomes in different settings.

In addition to the technical and logistical hurdles that prevent researchers from reproducing past evidence, the current publication incentives remain unfavorable to reproductions (Coffman, 2017; Clemens, 2017). Publication outlets may tend to favor novel conceptual insights over new tests of a published idea, regardless of what these tests find. Furthermore, it is possible that researchers aiming to publish reproductions as standalone projects may face incentives to engage in selective reporting, implying that reproduction efforts might also suffer from p-hacking and other questionable research practices (QRPs, see Bryan et al. 2019).

In this article, we first provide definitions for reproducibility and replicability. Next, we review data availability journal policies. We then present the results from a survey of editors of leading political science journals about their willingness to publish comments and replications. We discuss new initiatives that seek to promote and generate high-quality reproductions and replications. Last, we make the case for standards and practices that may help increase data availability, reproducibility, and replicability in political science.³

Definitions of Reproducibility and Replicability in Political Science

Several definitions of reproducibility and replicability have been used and proposed (see, e.g., Clemens 2017, Christensen and Miguel 2018, Ankel-Peters et al. 2023a). Dreber and Johannesson (2023) recently proposed definitions and indicators for economics that we summarize here and believe can be useful also for political science. As mentioned above, *reproducibility* is defined as using the original studies’ data, while *replicability* is defined as using data other than what was used in the original studies.

³ We focus on reproducibility for quantitative research as the set of considerations for qualitative reproducibility is outside of the scope of this paper. For guidelines and frameworks for qualitative replication studies see Demgen-ski et al. (2021), Karcher et al. (2021) and O’Brien et al. (2014).

Reproducibility is furthermore divided into three types. *Computational reproducibility* tests the extent to which results in original studies can be reproduced using the data and code from the original studies. *Recreate reproducibility* tests to what extent results in original studies can be reproduced using the information in the original studies without access to the processed data set and/or the analysis code, while *robustness reproducibility* tests to what extent results in original studies are robust to alternative plausible analytical decisions using the same data as in the original studies.

Replicability is divided into two types. *Direct replicability* tests to what extent results in original studies can be repeated on new data using the original studies' research design and analysis (with three further sub-categories depending on if data from the same population, a similar population, or a different population is used). *Conceptual replicability* also uses new data to test to what extent results in original studies can be repeated, but for this type of replication an alternative research design and/or alternative analysis is used to test the same hypothesis as in the original study (and conceptual replicability is also further sub-divided into the same three sub-categories as direct replicability). See Dreber and Johannesson (2023) for further details and proposed indicators of reproducibility and replicability to be reported for each type.

Lack of Reproducibility and Replicability in Political Science

Reproducibility and replication efforts contribute in essential ways to the production of scientific knowledge. Within the social sciences, political scientists have pushed the frontier of research transparency on several dimensions, such as raising the issue (King, 1995), developing guidance to rigorously document research designs (Blair et al., 2019), and being early adopters of data and code availability for replication (see, for instance, Bueno de Mesquita, 2003). Other contributions include developing innovative methodologies to combat p-hacking (Young and Holsteen, 2017, Breznau et. al. 2022), proposing standard operating procedures to document deviations from pre-analysis plans (Lin and Green, 2016) and establishing a trusted repository to archive time-stamped registrations (EGAP).

Despite the importance of reproductions and replications for the production of scientific knowledge, progress has been slow. Existing reviews of published reproduction activities mostly document small or even miniscule replication rates (Mueller-Langer et al. 2019). The present situation is unsurprising in light of the many barriers that prevent researchers from assessing the reliability of existing research. Indeed, access to data, codes and protocols is to this date not universal in political science (Dafoe, 2014).

We investigate the prevalence of data availability journal policy on a sample of 28 leading political science journals (see Appendix for more details). The analysis was conducted in early June 2023. We see this analysis as an update to the review by Gleditsch and Janz (2016). We also investigated whether the journal has a data editor or reproducibility analyst. While data editors neither check the robustness of numerical results nor their replicability, they ensure that the data and codes necessary for a computational reproducibility are available. For some journals, data editors also conduct computational reproducibility. In the event that the data cannot be shared for confidentiality reasons, the data editors typically require the authors to provide detailed information describing how other researchers may obtain the data.

Table 1: Data Availability Policy and Data Editor

Journal	Data availability policy?	Data editor?
American Journal of Political Science	Yes	Independent
American Political Science Review	Yes	No
American Politics Research	Encourage	No
British Journal of Political Science	Yes	No
Comparative Political Studies	Yes	No
Comparative Politics	No	No
European Journal of Political Research	Yes	No
International Organization	Yes	No
International Studies Quarterly	Yes	No
Journal of Conflict Resolution	Yes	No
Journal of Experimental Political Science	Yes	No
Journal of Law, Economics and Organization	Yes	No
Journal of Politics	Yes	Yes
J. of Public Administration Research & Theory	Yes	No
Journal of Theoretical Politics	Encourage	No
Legislative Studies Quarterly	Encourage	No
Political Analysis	Yes	Yes
Political Behavior	Yes	No
Political Communication	Yes	Yes
Political Geography	Encourage	No
Political Psychology	Encourage	No
Political Research Quarterly	Yes	No
Political Science Research and Methods	Yes	Yes
Public Choice	Encourage	No
Public Opinion Quarterly	Yes	No
Quarterly Journal of Political Science	Yes	Yes
Research & Politics	Yes	No
Review of International Organizations	Yes	No

With regard to the second question, four of the journals have dedicated data/replication editors, namely, *Journal of Politics*, *Political Analysis*, *Political Communication*, *Political Science Research and Methods*, and *Quarterly Journal of Political Science*. The *American Journal of Political Science* also has a verification process carried out by the Odum Institute for Research in Social Science at the University of North Carolina at Chapel Hill. This is an independent verification process that computationally reproduces numerical results for accepted articles. With regard to the first question, just one of the journals has no information on its website with regard to data or codes – *Comparative Politics*. Of the remaining 27 journals that were sampled, six encourage the sharing of data/codes and 21 mandate it.⁴

It is worth emphasizing that some journals also recommend or mandate reporting standards. For instance, the *Journal of Experimental Political Science* recommends adherence to reporting standards, with a reporting guidelines checklist and guidance on how to not p-hack. *Public Opinion Quarterly* requires authors to comply with disclosure requirements in the AAPOR Code of Professional Ethics -- see section III at <https://aapor.org/standards-and-ethics/>.

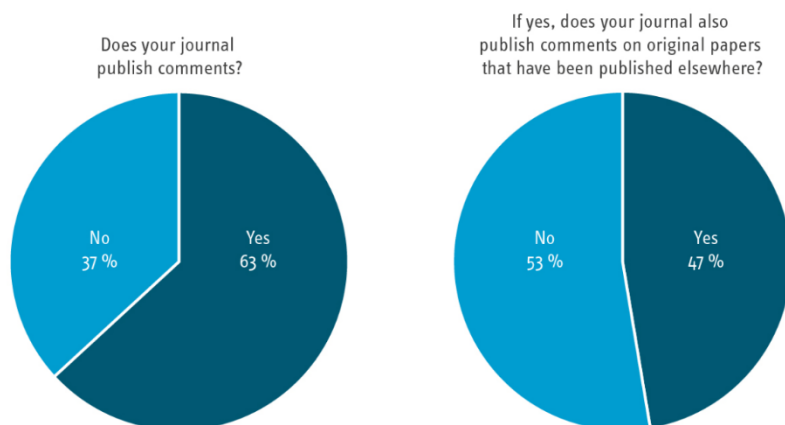
Survey of Editors

To examine the demand for replications among journals, we surveyed editors of leading journals in Political Science about their journals' policies to publish replications and comments (henceforth 'replications,' see Figure 1 for the exact wording used in the survey). The editors were approached by email by late May 2023 and a reminder was sent early June for those who did not initially respond.⁵ The journals were selected through a crowdsourcing procedure -- asking the political science Institute for Replication (I4R) board members to nominate journals and review the list. In total, 19 of 28 contacted editors responded. Figure 1 summarizes the results; the responses disaggregated by journal can be found in Table A1 in the Appendix. Most editors, 63%, stated that their journal would generally publish reproductions/replications of papers originally published in their own journal. Of those, 47% responded that they would also consider replications of papers in other journals (although for both questions, some constrained this by further criteria like the replicated paper being very relevant to the journal's readership; see the detailed responses on I4R's website – <https://i4replication.org/publishing.html>). In addition, we checked the websites of these 28 journals for whether their Aims & Scope or Guide for Authors state that replications or comments are considered for publication: nine of 28 journals do so. See Table A1 for journal specific details.)⁶

⁴ Of note, we did not check whether the 21 journals without a data editor enforce their mandatory data availability policy. Brodeur et al. (2024) provide evidence that data availability remains low for several economic journals with a mandatory data and code availability policy.

⁵ A small number of journals were initially approached by email on December 6-7, 2021. We reached out once more to the journals that did not respond in May 2023 and to those whose editor-in-chief changed.

⁶ We checked the journal websites on June 7, 2023. See as well Ankel-Peters et al. (2023a) for a similar exercise in economics. Here, 79% of editors of Top 50 journals stated that they would publish a replication on a paper published in their own journal; out of these 62% would also publish a replication of a study originally published in another journal.

Figure 1: Survey among editors of leading Political Science journals

Notes: The exact phrasing of the questions were: 1) Do you publish comments in <insert journal name here>? By comment we mean a paper that discusses and potentially challenges the empirical results from another paper, for example based on a reanalysis or additional robustness checks. 2) If yes, do you only publish comments on original papers that have previously been published in <insert journal name here> or do you also publish comments on original papers that have been published elsewhere?

Moreover, it is noteworthy that recently new opportunities to publish replications have emerged. Several journals, some new and some established, now prominently invite submissions of replications in their Aims & Scope (e.g., *Journal of Experimental Political Science* and *Political Science Research and Methods*). *Research & Politics* has replications as a category for submission:

- Research & Politics invites authors to consider submitting a paper that is along the lines of one or more of the following replication types:
- *Theoretical replication*: The submitted article argues that the original theoretical model is missing at least one key element. The missing element(s) are addressed and included in the empirical analysis.
- *Technical replication*: The submitted article identifies faults in the original research design or analysis, thereby arguing that the original results might not hold; and/or
- *Concept replication*: The submitted article questions the validity of the original study. An alternative measurement or operationalisation is proposed which yields different substantive results.

Although taking these steps represents progress, practical challenges hinder the widespread publication of replications. These obstacles include entrenched biases favoring the status quo and difficulties in securing reviewers willing to assess debates laden with intricate technical details, demanding substantial effort. Additionally, previous efforts by journals to signal a need for replications have not invariably translated into an increased supply of replication studies. In economics, the *Journal of Political Economy* and *Labour Economics* discontinued formats dedicated to replication due to a lack of submissions (Hamermesh 2007). Likewise, the *American Economic Review* features an online format for replications with only one published comment, according

to the editors due to a lack of submissions as well (see Ankel-Peters 2023b). Hence, there are reasons to believe that the dearth of replications in journals is also a supply problem, probably because scholars have little incentives, intrinsic or extrinsic, to engage in reproductions and replications.

Generating and Promoting Reproductions and Replications

Several authors of this article founded the Institute for Replication to address the above issues by promoting and generating reproductions and replications on an ongoing basis. I4R's main goals are to assess and improve the computational reproducibility of research and its replicability.

As of 2023, I4R reproduces and replicates studies published in the *American Journal of Political Science*, the *American Political Science Review* and the *Journal of Politics*. I4R recruits replicators for studies published in 2022 onward in those outlets. I4R's team or a data editor computationally reproduces the numerical results, allowing replicators to focus on robustness reproductions and replicability.

To assist with the recruitment of replicators, I4R set up a board of editors from various research fields and with various institutional ties, thus allowing it to cast a very wide net. An editor's task is specifically to identify potential replicators. The institute currently has a board of editors for economics, finance, and political science, which actively recruits and selects replicators for studies recently published in top journals in each field. Of note, replicators may be faculty members or graduate students.

I4R also recently developed replication games to generate reproductions and replications in political science. Replication games are meet-ups ("hackathons") open to faculty, post-docs, graduate students and other researchers. Participants join a small team and are asked to first computationally reproduce, then to carry out additional reproducibility analyses of a published paper or study in their field of interest. In practice, teams work during the event and the following weeks on testing the robustness of the results of a prior study using the same data but different analytical decisions than made by the original investigator. All replication reports are then combined into (mega) meta-papers, and all replicators are offered coauthorship.

Reproducibility and Replicability in Class

We argue that reproduction and replication of research by graduate students plays a pivotal role in upholding the integrity and credibility of scientific inquiry, laying the foundation for the advancement of knowledge. Reproducing and replicating the work of others is a fundamental and essential aspect of graduate education (Janz, 2016). Every year, students, and more generally, researchers around the world, carry out reproduction exercises, generating important pieces of new knowledge. Unfortunately, those reproductions and replications exercises are rarely publicly documented or rewarded. One recent platform developed to deal with this issue is the Social Science Reproduction Platform (SSRP). This resource standardizes and crowdsources exercises of computational reproducibility, and provides extensive guidance on how to carry out a reproduction exercise. First, students and researchers typically verify the existence of reproduction materials for an article. Second, they assess how reproducible these materials are. Third, they might

make some improvements to these materials (from fixing file paths and libraries, to translating code into a different programming language). Finally, they often explore different specifications to see which results may or may not robustly hold.

How to Make Adversarial Exchanges More Collaborative:

Reproductions and replications in academia can sometimes become adversarial. The process can potentially lead to tensions between the replicators and the original authors if the replication study fails to replicate the original findings (Laitin and Reich, 2017). This can occur due to various reasons such as differences in sample characteristics, variations in experimental conditions, or even methodological limitations of the replication study itself. When the replication results contradict the original findings, it may challenge the credibility and impact of the original study,⁷ leading to a defensive response from the original authors.

Another factor that can contribute to adversarial relations is that the original authors may perceive the replication as an attempt to undermine their work, and as a result, may respond defensively or dismissively, seeking to protect their intellectual contributions.

To mitigate adversarial dynamics, fostering open communication, transparency, and collaboration between replicators and original authors is crucial. I4R, for instance, deals with communication between original authors and replicators (Brodeur et al., 2023). By acting as an intermediary between authors and replicators, it helps researchers collectively contribute to a more robust and reliable body of knowledge and makes exchanges less adversarial. An additional approach for enhancing the efficiency of conflict resolution might involve embracing the framework of adversarial collaborations as proposed by Kahneman and Klein (2009) which are increasingly being used in different areas of the social sciences (e.g., Clark and Tetlock, 2023).

Incentives for Replicators

Engaging in replication studies can carry potential negative consequences for the career of replicators. These consequences can arise from a variety of factors, including the prevailing limited incentives.

First, replicators may find it challenging to gain recognition and visibility for their work, as replication studies may be difficult to publish and are often less recognized by their peers.⁸ Additionally, replication studies can elicit negative reactions from original authors, as discussed earlier. If replicators challenge or refute the original findings, they may face criticism, or even personal attacks from the authors or their supporters. These adversarial interactions can create a hostile environment for replicators and potentially damage their professional relationships within the academic community.

⁷ Schafmeister (2021) provides evidence that failed replications are cited equally to successful replications, while Serra-Garcia and Gneezy (2021) find that they are cited more.

⁸ Nonetheless, there are many instances in which the replicator(s) received acclaim for work that overturned important findings. See, for instance, McCrary (2002). There are also large-scale debates about the suitability of regression discontinuity applications.

Second, dedicating time and resources to replication studies may divert replicators' attention from pursuing their original research agendas. The time spent replicating studies and addressing potential challenges can slow down their career progression and limit their ability to build a unique research portfolio.

To mitigate some of these negative consequences, we make the case for a growing recognition of the importance of replication studies within political science. One solution is to combine replications into large meta-papers. Being granted coauthorship to a meta-paper encourages researchers to replicate studies and changes incentives and the way replication is conducted. This is in part due to the fact that replicators work in teams and are not as pressured to show that the original findings are not replicable or robust. Moreover, meta-papers allow for estimating a replication rate within a discipline or subfield. Inferring the replication rate from published one-on-one reproductions and replications is not possible since problematic reproductions and replications are more inclined to be conducted in the first place and also more likely to be published. Last, one key editorial policy at I4R is that replicators may remain anonymous and still get coauthorship to a meta-paper. However, the identity of the replicator is known to the editorial board that vetted this person and their work.

Conclusion and Recommendations

Leading political science journals have recently adopted innovative open science practices, incorporating policies that emphasize the availability of data and code, along with the inclusion of reproducibility analysts. We believe more journals ought to implement similar policies in a way that does not stifle creativity and that minimizes excess burden for researchers, editors and journal staff.

A key question going forward, which we have not addressed is “Which papers should be replicated?” We believe greater reflection is warranted on this matter. Interesting options include crowd forecasts to determine which papers are likely to run into replication failures. Crowdsourcing may also be helpful in prioritizing the papers that most demand replication (either because the papers are very important or because their findings are especially dubious).

We urge researchers, journal editors, and funders to start holding political science to higher open science standards, and supporting and facilitating the conduct and publication of replication and reproducibility studies. We make three recommendations:

- (1) We call on the *American Political Science Association* sections (or at least the experiments section) for an award for best replication/extension study.
- (2) We urge the creation of an outlet dedicated to replications backed up by one of the large disciplinary professional associations (for which impact factor might not be a primary consideration).
- (3) We also recommend that more political science journals start using data editors to improve computational reproducibility.

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Online Appendix

Table A1: Responses to the survey among editors of 28 Political Science journals

Journal	Contacted editors	[Q1] Do you publish comments?	[Q2] If yes, do you also publish comments on original papers that have been published elsewhere?	Does the website mention that the journal publishes comments or replications?
American Journal of Political Science	Kathleen Dolan, Jennifer Lawless	No	No	No
American Political Science Review	Aili Mari Tripp	Yes	Yes	Yes
British Journal of Political Science	Robert A. Johns	Yes	Yes	Yes
Comparative Political Studies	David Samuels	No	No	No
Comparative Politics	Yekaterina Oziashvili	No	No	No
European Journal of Political Research	Emiliano Grossman	Yes	Yes	No
International Organization	Erik Voeten	Yes	Yes	No
International Studies Quarterly	Brandon C. Prins	Yes	No	No
Journal of Conflict Resolution	Paul Huth	Yes	No	No
Journal of Experimental Political Science	Kevin Arceneaux	Yes	No	Yes
Journal of Public Administration Research and Theory	Mary K. Feeney	No	No	No
Legislative Studies Quarterly	Guillermo Rosas	Yes	Yes	No
Political Analysis	Jeff Gill	No	No	Yes
Political Communications	Regina G. Lawrence	No	No	Yes
Political Research Quarterly	Seth C. McKee	No	No	No
Public Opinion Quarterly	Eric Plutzer	Yes	Yes	Yes
Quarterly Journal of Political Science	Anthony Fowler	Yes	Yes	No

Journal	Contacted editors	[Q1] Do you publish comments?	[Q2] If yes, do you also publish comments on original papers that have been published elsewhere?	Does the website mention that the journal publishes comments or replications?
Research & Politics	Kevin M. Esterling	Yes	Yes	Yes
Review of International Organizations	Axel Dreher	Yes	Yes	Yes
No responses from editors				
American Politics Research	-			No
Journal of Law, Economics and Organization	-			No
Journal of Politics	-			No
Journal of Theoretical Politics	-			No
Political Behavior	-			No
Political Geography	-			Yes
Political Psychology	-			No
Political Science Research and Methods	-			Yes
Public Choice	-			No

Notes: For Q1 and Q2, we further specified the word comment: "By comment we mean a paper that discusses and potentially challenges the empirical results from another paper, for example based on a reanalysis or additional robustness checks." The last column is based on a review of journal websites, while Q1 and Q2 were part of the editor survey. The APSR website mentions in its Q&A section that letters can be submitted in case an "error [in a previously published paper] might not be a 'mistake' (e.g. in interpretation or coding), but instead reflect a substantive scholarly debate about theory, evidence, or method in political science."

Full Answers from Survey of Editors

1- *American Journal of Political Science* – Kathleen Dolan and Jennifer Lawless

“We don’t publish comments.”

2- *American Political Science Review* – Aili Mari Tripp

“Q1: Yes, we would consider publishing a comment in our Letter (research notes) format that challenges the empirical results from another paper if

i) the article is of interest to a sufficiently broad section of our readership; or ii) if the article makes a methodological advance that would be of interest to a broader readership.

Q2: We have generally avoided publishing comments on manuscripts published elsewhere. We privilege commentary on our own articles, as we believe that the responses to articles in other journals belong in those journals. But this is not to say that we would never consider doing this. It would depend on the importance of the debate and the extent to which the issues are of general interest. But as a general principle, we would not do so.”

3- *British Journal of Political Science* – Robert A. Johns

“Q1: Yes, we do. Not many -- perhaps one every second issue, or something like that -- but some.

(Quite a few -- maybe even half -- of these are accompanied by a follow-up rejoinder from the original author, although that's as far as we take an exchange.)

Q2: We don't have a rule against comments on papers published elsewhere, and occasionally that happens, but the clear majority of our comments are on BJPoS papers. That's partly because we feel more of an obligation to correct/refine findings published in our own journal. It's also because I guess there's a natural 'level' issue here: we probably wouldn't publish a comment on an article in a journal well below us in the rankings/prestige/hierarchy, simply because the original contribution is unlikely to have been of a size that we'd have published in the first place; meanwhile, someone wanting to comment on an article in the AJPS is unlikely to want to publish it with us.”

4- *European Journal of Political Research* – Emiliano Grossman

“The quick answer is that we do not have a specific format for this.

We have done it recently in an ad hoc move in response to an author who approached us regarding a recently published paper (by us). We published his comment as a "research note", an existing format. While we may do this again, subject to agreement bw the three editors, we do not currently have a policy on this.”

5- International Organization – Erik Voeten

“We do not have a separate comments or letters to the editors section.

We do publish research notes that are based on replications of articles we have published and occasionally articles that were published elsewhere. Those notes go through the regular review process.”

6- International Studies Quarterly – Brandon C. Prins

“Q1. Yes.

Q2: Only publish responses to manuscripts published in ISQ.”

7- Journal of Experimental Political Science – Kevin Arceneaux

“This is a bit of a theoretical question for us, because we have yet to receive a submission directly challenging something published in the journal, but if we did, we would be open to publishing it as a comment that allows the authors of the original piece to respond. For your second question, I have a complicated response. We would only consider publishing a paper that “comments” on a publication in a venue other than JEPS if it consisted of original research (e.g., a replication study), but we would not consider it if it only re-analyzed data published elsewhere. I should also add that these policies are not written in stone and perhaps a future editorial team will do something different!”

8- Political Research Quarterly – Seth C. McKee

“As a rule, no, we do not publish comments in Political Research Quarterly. We have not done this at all under our editorial tenure.”

9- Public Opinion Quarterly – Eric Plutzer

“Q1: Yes we do. But we do not distinguish these from any other submission.

Indeed, every submission “discusses” empirical results from other papers and a large majority of submissions “challenge” prior empirical results. A “Comment” is often a special case, one that focuses on a single paper’s conclusions. If we receive such a submission, we treat it like any other, with one exception: at least one author of the targeted article is invited to serve as a reviewer in the double-blind condition. If the commenter is assured that one of the original authors will be a reviewer, I think there is a pressure towards professional, less aggressive and less pejorative framing. The original author can choose to disclose their identity or not. We can take into account potential conflicts of interest when reviewing the full set of reviews. Here is a recent example: Urbatsch, R., 2020. Revisiting “The First-Daughter Effect”. *Public Opinion Quarterly*, 84(2), pp.523-537. I think the process worked well in this case. Q2: This is irrelevant since we do not

treat comments differently from any other submission. If the contribution to knowledge is substantial, it makes no difference where the original findings were published (and vice versa). It's useful to add that if a third party points out a simple error (e.g., a variable was reverse coded and thereby mis-interpreted by the authors, or the authors incorrectly included or excluded cases, etc.), the preferred mechanism is collegial: (a) the person who identified the error contacts the authors, hopefully copying us in the email thread, and then (b) the authors formulate a corrigendum, (c) which we publish. There is no need for the "corrector" to have authorship in these cases. We publish corrigenda from time to time and many are the result of these normal collegial interactions. We've never had a retraction, but in the case of a more serious error, that could occur. That is how science ought to work."

10- Research & Politics – Kevin M. Esterling

"Yes to both questions. R&P does strongly encourage and publish both replications and comments.

We have a clear policy for dealing with replication studies which is detailed here: <https://journals.sagepub.com/author-instructions/RAP#ArticleTypes>."

11- Review of International Organizations – Axel Dreher

"Q1: Yes. Q2: Also elsewhere (explicit journal policy)."

12- Journal of Politics: No response.

Data Availability Journal Policy

American Journal of Political Science

The corresponding author of a manuscript that is accepted for publication in the American Journal of Political Science must provide materials that are sufficient to enable interested researchers to verify all of the analytic results that are reported in the text and supporting materials.

All verification files must be stored in a Dataset within the AJPS Dataverse, on the Harvard Dataverse Network.

When the final draft of the manuscript is submitted, the materials will be verified to confirm that they do, in fact, reproduce the analytic results reported in the article.

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American Political Science Review

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American Politics Research

Authors can upload the code associated to their published article so that readers can view and execute it.

British Journal of Political Science

Authors of accepted articles using quantitative data are required to deposit (1) their data, (2) the code-book or any other relevant description of the data, which includes information about the source of the analysis data and instructions for extracting the analysis data from source data, (3) a file containing the exact and detailed commands used by author to reproduce all tables, figures, and exhibits (i.e., “do” or “run” files), and (4) a file containing the actual output from the statistical software used (i.e., “log” or “output” file) on the BJPoIS Dataverse

Comparative Political Studies

Papers that present quantitative analyses will not be granted final acceptance until replication materials (data, code, log files etc.) have been deposited at the CPS Dataverse.

Comparative Politics

No policy.

European Journal of Political Research

Manuscripts accepted for publication must be in line with the common ECPR policy on data access and research transparency. This implies that we will request authors of papers partially or fully relying on

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International Organization

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International Studies Quarterly

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Journal of Conflict Resolution

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Journal of Theoretical Politics

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Legislative Studies Quarterly

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Political Analysis

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Political Research Quarterly

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American Journal of Political Science



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- ethics certificates or approvals from all organizations that approved the research and/or
- other research documentation, such as survey instruments, interview guides, or other codebooks; and
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copy (e.g., a pdf printed from the repository with redactions) of the research plan as a separate .pdf file. The *anonymized* research plan will be provided to reviewers.

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American Politics Research

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British Journal of Political Science

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Authors of accepted articles using quantitative data **are required** to deposit (1) their **data**, (2) the **codebook** or any other relevant description of the data, which includes information about the source of the analysis data and instructions for extracting the analysis data from source data, (3) a **file containing the exact and detailed commands** used by author to reproduce all tables, figures, and exhibits (i.e., “do” or “run” files), and (4) a **file containing the actual output** from the statistical software used (i.e., “log” or “output” file) on the *BJPoS* Dataverse:

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Comparative Political Studies

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Comparative Politics

European Journal of Political Research

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International Organization

Research transparency

Prior to final acceptance, results of papers using quantitative data and proofs of formal models will be verified by *IO* staff. The editors will not issue final acceptances until all results of all reported analyses are confirmed. Authors of papers using quantitative data must provide the data and accompanying command files to reproduce tables presented in the paper and support any other claims made in the manuscript based on analysis of the data (for example, results verbally described in the main text or in footnotes). The editorial staff will request data at the time of conditional acceptance; authors do not need to provide data or command files upon initial submission. Authors of papers including formal models must provide complete proofs at the time of initial submission. We also encourage authors of papers using qualitative data to be as transparent as possible about their research methodology and, with ethical considerations in mind, provide as much information as feasible to allow others to verify their claims.

***IO* Dataverse**

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*International Studies Quarterly***Data and Formal Models**

Authors should present quantitative data and elucidate statistical models in forms that are accessible to a general audience. Statistical tables should include names for both variable rows and model columns that are comprehensible, and should report both coefficients and standard errors. Asterisks or other indicators to denote statistical significance should be included where relevant, but must be consistent across the manuscript.

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Authors using formal models should clearly specify their technical innovation(s) as one of the contributions of the manuscript. When presenting formal models, authors should strive for simple and parsimonious notation. Purely technical developments, such as proofs, should be presented in a clearly written appendix, which may be submitted as supplementary materials. This technical appendix should enable any sophisticated reader to check the mathematical proofs.

Journal of Conflict Resolution

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Journal of Politics

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Journal of Public Administration Research and Theory

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Journal of Theoretical Politics

2.4 Declaration of conflicting interests

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Legislative Studies Quarterly

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Expects Data Sharing	Required	Optional	Optional	British Journal of Social Psychology
Mandates Data Sharing	Required	Required	Optional	Ecology and Evolution
Mandates Data Sharing and Peer Reviews Data	Required	Required	Required	Geoscience Data Journal American Journal of Political Science

¹ A data availability statement confirms the presence or absence of shared data.

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Political Analysis

Making Data Available for Replication

Political Analysis requires conditionally accepted manuscripts to go through a rigorous replication process and demonstrate full reproducibility. The authors of conditionally accepted manuscripts must provide data, code, and other necessary materials and make them publicly available prior to publication. The editor should be notified at the time of submission if access to the data used in the paper is restricted or limited, or if, for some other reason, the requirements above cannot be met. The replication team at *Political Analysis* will assess compliance with these guidelines, and replicate and verify the information and results of the manuscript prior to approval and formal acceptance by the editor.

The below document describes how to prepare a replication package, including both general principles and specific instructions. The objective is to establish a broad standard for the information that must be made available to demonstrate the reproducibility of the results that appear in *Political Analysis* and to allow the broad scientific community to evaluate and use the methodology proposed in the research. *Political Analysis* recognizes that the guidelines may not cover all the situations that may occur. Therefore, some adjustments can be made on a case-by-case basis. Nevertheless, the following principles should sufficiently address the vast majority of research contexts.

Political Behavior

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Political Geography

Research data

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Political Research Quarterly

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Political Science Research and Methods

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Data and replication code for your article, as well as a log demonstrating smooth running of all the replication files, must be uploaded in a single .zip file to the PSRM Dataverse at <https://dataverse.harvard.edu/dataverse/PSRM>. (See the [PSRM Dataverse Guide](#) for a step-by-step walkthrough for uploading your material, which is also linked to on the PSRM Dataverse homepage). This is a necessary condition for publication of the manuscript. All manuscripts are accepted contingent on their replicability, which will initially be assessed by PSRM staff. Manuscripts that are not replicable will be rejected for publication. If your analysis relies on simulation techniques (MCMC, MC experiments) we require authors to set and communicate a seed, so that exact results can be replicated. If this is impossible due to the design of the analysis, replication results need not deviate by more than 5 per cent from published results in the manuscript.

Public Choice

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Public Opinion Quarterly

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Our *Open Science and Replication Policies* require all authors of accepted manuscripts to either (a) place replication data and code in a permanent archive or (b) secure an exception from the editors whenever (i) the safety and privacy of the respondents would be jeopardized, (ii) disclosure is prohibited by the owners of the data, or (iii) there is another compelling ethical rationale for not placing the data in the public domain.

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Quarterly Journal of Political Science

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Research & Politics

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Review of International Organizations

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- Only sharing metadata about the research data
- Stating the procedures for accessing your research data in your article and managing data access requests from other researchers