

# Open Science Policy

EJP has signed the Transparency and Openness Promotion (TOP)-Guidelines (see <https://osf.io/9f6gx/>). As a result, **authors have to confirm that their manuscript complies with eight open science standards** (below).

EJP allows variability in how authors address the open science standards, but it asks for transparency about their choices. This policy accommodates circumstances that do not allow authors to meet all of the standards. However, editors give credit to (empirical) submissions that comply with them and do not accept submissions that fail to provide an explanation for why the standards cannot be met.

Material, data and analysis scripts are generally considered “open” if the paper includes an URL to an openly accessible file stored at a permanent public repository (such as the Open Science Framework; OSF). Simply noting that other researchers can request material is not considered “open”. Optimally, a paper-specific URL includes all additional information (material, data, code, supplemental analyses, etc.) at one place.

**IMPORTANT: All manuscripts must have a Data Accessibility Statement after the Discussion that states where Materials and Data can be accessed (or why they cannot be accessed), preferably with a direct URL.** For example, the statement could read: “The study materials, data and analysis scripts used for this article can be accessed at [a permanent and openly accessible URL].”

**IMPORTANT: Eight Open Policy statements must be endorsed in the submission process.**

- **Preregistration statement:** *We report whether our hypotheses were preregistered and if they were, we provide a link to this preregistration (e.g., at OSF).*
  - Deviations from the pre-registrations should be noted and explained.
  - If the paper contains hypotheses that were / were not preregistered, state this in the manuscript (e.g., state at the of the introduction “The hypotheses were / were not preregistered” and add URL, if appropriate).
  - Explicitly describe your research as exploratory if it was exploratory.
  - Exploratory analyses can be added to pre-registered analyses, but should be explicitly described as such.
- **Sampling statement:** *We describe how the sample size was determined for each study. We also disclose any data exclusions, and explain the rationale and criteria for them. We describe the demographic composition of our sample(s).*
  - Statistical power calculations should be based on conservative estimates of the most complex effects that were analyzed.
  - Explain reason(s) for mismatch(es) between the sample size(s) required per power analysis and actually achieved.
- **Open material statement:** *We provide information regarding all procedures and measures used in this study, either in the manuscript or by referring to openly accessible material. We disclose if the data have been used in other paper(s) and, if yes, where (submitted or accepted).*
  - Method section(s) should be sufficiently detailed to allow the research to be directly replicated in principle. In case the data are part of a larger project, the selection of procedures and measures for this specific paper needs to be transparent. Therefore, a full disclosure of all procedures and measures used in the whole research project is required, regardless of whether they are deemed important for the current paper. The Data Accessibility Statement section should include an URL to an openly accessible (e.g., at OSF) codebook or, if this is not (yet) available, to a list of all procedures and measures (including appropriate references or the original wording of items and other material). For large cohort or panel studies, a reference to their websites or overview papers that contain the material is sufficient.
  - Any other papers (submitted or accepted) based on the same data need to be disclosed. Describe how these papers overlap with and differ from the submission. For large cohort or panel studies, this only applies to papers that use the data for related purposes. This can be done in an openly accessible document (e.g., at OSF) that is linked from the article.

- **Open data statement:** *The data needed to reproduce the results are open and we provide information (e.g., URL) on how to access them. Alternatively, we explain in the Data Accessibility Statement section why the data are not made openly accessible.*
  - Stating that data is available upon request is insufficient. If data cannot be made publicly available, authors should explain the reasons for this and consider making at least parts of data openly accessible.
  - If analyses are based on publicly available data, include the URL to this public resource (preferably, to the exact dataset used for analyses).
- **Reproducible script statement:** *We provide openly accessible data analysis scripts that allow reproducing all reported results and include information (e.g., URL in the Methods section) necessary to access these scripts.*
  - Scripts should be provided even when it is not possible to make the data openly accessible, as it makes analyses transparent.
- **Transformation and non-standard scoring statement:** *We describe any data transformations (e.g., collapsing values or otherwise changing their distribution) and have conducted analyses with both the transformed and raw data (e.g., in Supplemental Material). We describe and provide rationale for any deviations from standard scoring procedures (e.g., aggregating measurements in non-typical ways), and also report analyses with the standard procedures (e.g., in Supplemental Material).*
- **Co-variates statement:** *We provide a rationale for including covariates and tested models with and without the covariates.*
- **Effects statement:** *We report basic descriptive statistics, effect sizes, exact p-values, and 95% (or other reasonable) confidence (credible) intervals. Alternatively, we explain why this is not possible or reasonable.*
  - If applicable, all papers should include a table with descriptive statistics of and correlations between all measures (in the main text or Supplemental Material).
  - (Retest) reliability (or at least internal consistency) estimates should be given for all measures where possible.
  - Exact p-values should be given when  $p > .001$ .

**Authors should check that a) the manuscript includes the Data Accessibility Statement section and b) their responses to the Open Policy statements during the submission are accurate and match the Data Accessibility Statement.**

EJP also requires **appropriate citations of all data, program code and other methods**. All previously deposited or published data sets and program code used in a publication must be cited in the text and listed in the reference section. References for data sets and program code should include a persistent identifier, such as a Digital Object Identifier (DOI). Data set citation example:

Campbell, Angus, and Robert L. Kahn. *American National Election Study, 1948*. ICPSR07218v3. Ann Arbor, MI: Interuniversity Consortium for Political and Social Research [distributor], 1999.  
<http://doi.org/10.3886/ICPSR07218.v3>

During submission, authors are asked to apply for **Open Science Badges**: Open material, Open data, Preregistered. The badges are assigned based on how the paper complies with the [open science standards](#).

EJP also encourages **preregistrations** (<https://cos.io/rr>) which involve registering the study design, variables, and treatment conditions as well as statistical analysis plans prior to conducting the research. This can be done in regular articles or, preferably, in [Registered Reports](#). Preregistration is strongly recommended in particular if the study tests specific *a priori* hypotheses or involves replications of published research or other studies included in one's own paper (i.e., only some of the studies in any given submission can be preregistered). If the research is preregistered, permanent links to the preregistration are required.