Implementation and Enforcement of Journal-based Data Policies

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ODUM INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE
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Commitment to research transparency and openness
Established trustworthy digital data repository
Domain knowledge and statistics expertise
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Journal-based Data Policy Implementation

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.

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.

ajps.org/ajps-verification-policy/
1. Article Submission
2. Conditional Acceptance
Curation
- Review materials for completeness
- Identify confidentiality/copyright issues
- Identify incomplete, inconsistent, or missing variable definitions
- Assess file formats for suitability for long-term preservation
- Enhance descriptive metadata

Verification
- Configure computational environment
- Review code for inclusion of commands and comments required to reproduce results
- Compile and execute code
- Identify errors in non-executable code
- Compare outputs to tables, figures, and other results reported in the manuscript
2.11 resubmissions per manuscript

6 workflow hours
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6 workflow hours

System independence
Variances in computing environments preclude any guarantee of computational reproducibility

Task coordination
A largely manual process requires active and ongoing coordination among actors to avoid workflow delays

Verification package deficiencies
Failure to submit packages that meet quality standards extends the amount of time and effort required for verification
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Research and Development

- Effectiveness of journal-based data policies
- Factors affecting data policy compliance
- Gaps and opportunities in existing reproducible research training programs
- Technical approaches for improving data curation and verification workflow efficiency

Robert Wood Johnson Foundation • Institute of Museum and Library Services • Alfred P. Sloan Foundation
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Education and Training

Foundational coding and data skills for computational reproducibility

- Automating research workflows
- Documenting data and code
- Organizing research materials
- Packaging research artifacts for dissemination