

# Openness and transparency checklist

From Van Vaerenbergh, Y., Hazée, S., & Zwienenberg, T. J. (2026). Open science: A review of its effectiveness and implications for service research. *Journal of Service Research*. Authors can use this checklist before submission; reviewers and editors can use it to assess how far a paper lives up to open science practices. Some items may not apply to all types of study.

| Transparency in study objectives and design |    |                                                                                                                                                                                                                             |                          |
|---------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Study objective                             | 1a | Specify the study objective(s), research question(s) and/or any a priori hypotheses                                                                                                                                         | <input type="checkbox"/> |
|                                             | 1b | If applicable, specify that no confirmatory tests of any a priori hypotheses are conducted                                                                                                                                  | <input type="checkbox"/> |
| Study type and rationale                    | 2a | Specify whether the study (or parts of it) is exploratory or confirmatory in nature; OR                                                                                                                                     | <input type="checkbox"/> |
|                                             | 2b | Specify the reasoning being used in the study, that is whether it is inductive, abductive or deductive                                                                                                                      | <input type="checkbox"/> |
| Replication                                 | 3a | Specify whether the study (or parts of it) is a replication of prior research                                                                                                                                               | <input type="checkbox"/> |
|                                             | 3b | Specify the level of closeness with the original study                                                                                                                                                                      | <input type="checkbox"/> |
| Sample selection process                    | 4a | Specify the eligibility criteria                                                                                                                                                                                            | <input type="checkbox"/> |
|                                             | 4b | Specify the source(s) (e.g., databases) and method(s) of data selection (e.g., sampling approach, search string), including how many researchers were involved                                                              | <input type="checkbox"/> |
| Sample size                                 | 5a | Explain how the study sample size was determined (e.g., statistical power analysis, along with the exact assumptions and input used) or was arrived at (e.g., theoretical saturation, information power)                    | <input type="checkbox"/> |
|                                             | 5b | Justify that the size is sufficient to address the research question(s)                                                                                                                                                     | <input type="checkbox"/> |
| Data collection and measurement process     | 6a | Describe the method(s) of measurement or coding of all outcome and predictor variables (e.g., items used, scale numbers and labels, coding sheet)                                                                           | <input type="checkbox"/> |
|                                             | 6b | Describe the questions, prompts, instructions and guides (e.g., interview guide, survey questionnaire, blinding procedures, coder instructions)                                                                             | <input type="checkbox"/> |
|                                             | 6c | Specify the research setting where the data were collected                                                                                                                                                                  | <input type="checkbox"/> |
|                                             | 6d | Give details of any treatments received and, if applicable, of the random allocation sequence                                                                                                                               | <input type="checkbox"/> |
| Material availability statement             | 7a | Mention whether the study materials are publicly available, upon request, or not available                                                                                                                                  | <input type="checkbox"/> |
|                                             | 7b | When not publicly available, provide a statement why (e.g., confidentiality agreements, sensitive information, proprietary rights...)                                                                                       | <input type="checkbox"/> |
|                                             | 7c | When publicly available, provide a clear statement where the materials can be accessed (e.g., a public repository, an author website...) and, if relevant, under which conditions (e.g., signing a nondisclosure agreement) | <input type="checkbox"/> |

| Transparency in intentions |    |                                                                                                                               |                          |
|----------------------------|----|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Preregistration            | 8a | Specify whether the study was preregistered or not                                                                            | <input type="checkbox"/> |
|                            | 8b | If preregistered, specify where and when the study was preregistered and provide a link or access code to the preregistration | <input type="checkbox"/> |
|                            | 8c | Describe and explain any amendments to preregistered information                                                              | <input type="checkbox"/> |
|                            | 8d | If not preregistered, clearly differentiate between anticipated and exploratory findings                                      | <input type="checkbox"/> |

  

| Transparency in data and analysis |     |                                                                                                                                                                                                                                                                                                                                |                          |
|-----------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Data preprocessing                | 9a  | Clearly explain the reasons for omitting any data (e.g., failed attention check) and report the number of exclusions                                                                                                                                                                                                           | <input type="checkbox"/> |
|                                   | 9b  | Describe how missing data and outliers were handled                                                                                                                                                                                                                                                                            | <input type="checkbox"/> |
|                                   | 9c  | If applicable, explain how data were transformed (e.g., standardization, normalization, winsorization, feature extraction)                                                                                                                                                                                                     | <input type="checkbox"/> |
| Sample description                | 10  | Give characteristics of the final sample                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> |
| Analytical methods                | 11a | Describe all analytical methods used to assess reliability and validity (e.g., factor analysis, internal consistency, reliability analysis, negative case inquiry)                                                                                                                                                             | <input type="checkbox"/> |
|                                   | 11b | Describe and justify all analytical methods used to produce the main findings, including those used to test the hypotheses (report their sidedness), to control for confounding, to build the model and evaluate its performance, to address model fairness and class imbalance, to code and derive themes from the data, etc. | <input type="checkbox"/> |
|                                   | 11c | Describe methods used for all additional analyses, including subgroup, adjusted and sensitivity analyses, distinguishing pre-specified from exploratory                                                                                                                                                                        | <input type="checkbox"/> |
| Reporting of findings and tools   | 12a | Provide and interpret appropriate outputs, including exact p-values, effect size estimates (e.g., r, Cohen's d, Cohen's f, $f^2$ , $\omega^2$ , odds ratios...), model performance estimates, their precisions (e.g., 95% CI), examples from the data of key themes or categories from the findings, etc.                      | <input type="checkbox"/> |
|                                   | 12b | Report the software, package(s), and version used for data preprocessing and analysis                                                                                                                                                                                                                                          | <input type="checkbox"/> |
| Availability of data              | 13a | Specify whether the full data are publicly available, upon request, or not available                                                                                                                                                                                                                                           | <input type="checkbox"/> |
|                                   | 13b | When not publicly or fully available, provide a statement why (e.g., confidentiality agreements, sensitive information...) and ideally propose an alternative disclosure plan (e.g., subset of data, synthetic data, adding noise...). In case of licensed data, provide instructions for accessing them                       | <input type="checkbox"/> |
|                                   | 13c | When publicly available, provide a clear statement where the data can be accessed (e.g., a public repository, an author website...), in what version (raw, cleaned or both) and format (e.g., .xlsx, .txt, .sav... files; ideally a non-proprietary format) and, if relevant, under which conditions they can be accessed      | <input type="checkbox"/> |

## Transparency in data and analysis

|                                               |     |                                                                                                                                                                                                                                                                               |                          |
|-----------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Availability of analytical scripts and coding | 14a | Specify whether the analytical scripts or coding tree used to analyze the data are publicly available, upon request, or not available                                                                                                                                         | <input type="checkbox"/> |
|                                               | 14b | When not publicly available, provide a statement why (e.g., confidentiality agreements...). In case of licensed scripts, provide instructions for accessing them                                                                                                              | <input type="checkbox"/> |
|                                               | 14c | When publicly available, provide a statement where the analytical scripts or coding trees can be accessed (e.g., a public repository, an author website...), to which software (and version) the scripts apply, and, if relevant, under which conditions they can be accessed | <input type="checkbox"/> |

## Transparency in production

|             |     |                                                                                                                             |                          |
|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Open access | 15a | Check publisher open access policies (e.g., using Open Policy Finder)                                                       | <input type="checkbox"/> |
|             | 15b | Whenever possible, place the post-print version of the manuscript into a public repository (e.g., institutional repository) | <input type="checkbox"/> |