

## Responsible NLP Checklist

Paper title: *Beyond Topology: Generative Node Importance Estimation via Structure-Guided Semantic Reasoning*

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How to read the checklist symbols:

- the authors responded 'yes'
- the authors responded 'no'
- the authors indicated that the question does not apply to their work
- the authors did not respond to the checkbox question

For background on the checklist and guidance provided to the authors, see the [Responsible NLP Checklist](#) page at ACL Rolling Review.

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### A. Questions mandatory for all submissions.

- A1. Did you describe the limitations of your work?

*This paper has a Limitations section.*

- A2. Did you discuss any potential risks of your work?

*The primary dataset used is Records of the Three Kingdoms, which is a historical text in the public domain. The llms we used are publicly available open-weight models used in accordance with their community license.*

### B. Did you use or create scientific artifacts? (e.g. code, datasets, models)

- B4. Did you discuss the steps taken to check whether the data that was collected/used contains any information that names or uniquely identifies individual people or offensive content, and the steps taken to protect/anonymize it?

*The dataset consists exclusively of ancient historical texts (Records of the Three Kingdoms) from the 3rd century, which are in the public domain. The individuals mentioned are historical figures, so privacy concerns or PII regarding living individuals are not applicable.*

- B6. Did you report relevant statistics like the number of examples, details of train/test/dev splits, etc. for the data that you used/created?

*Section 5.1.1 Section 6*

### C. Did you run computational experiments?

- C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?

*Section 5, Appendix A.3 and Appendix A.4*

- C3. Did you report descriptive statistics about your results (e.g., error bars around results, summary statistics from sets of experiments), and is it transparent whether you are reporting the max, mean, etc. or just a single run?

*Section 5*

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*The Responsible NLP Checklist used at ACL Rolling Review is adopted from NAACL 2022, with the addition of ACL 2023 question on AI writing assistance and further refinements based on ARR practice. ACL 2026 used a subset of ARR checklist form.*

**D. Did you use human annotators (e.g., crowdworkers) or research with human subjects?**

D1. Did you report the full text of instructions given to participants, including e.g., screenshots, disclaimers of any risks to participants or annotators, etc.?

*The study relies entirely on automated processing using Large Language Models and existing historical corpora. No human annotators or participants were involved.*

D2. Did you report information about how you recruited (e.g., crowdsourcing platform, students) and paid participants, and discuss if such payment is adequate given the participants' demographic (e.g., country of residence)?

*Not applicable. No human subjects or crowdworkers were recruited or compensated for this research.*

D3. Did you discuss whether and how consent was obtained from people whose data you're using/curating (e.g., did your instructions explain how the data would be used)?

*Not applicable. The dataset comprises public domain historical texts (Records of the Three Kingdoms) concerning historical figures, involving no data from living individuals.*

D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?

*Not applicable. This research involves computational analysis of public historical data and does not require Institutional Review Board (IRB) approval as it does not involve human subjects.*

**E. Did you use AI assistants (e.g., ChatGPT, Copilot) in your research, coding, or writing?**

E1. If you used AI assistants, did you include information about their use?

*All research, code implementation, and paper writing were conducted entirely by the human authors without the use of AI assistants.*